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: N.Marieswari || Dr.V.Krishnapriya

**Abstract:** Cloud computing is the trendy topic all over the world. As there are so much service providers of the cloud are available in the competitive world. A decision has to be taken that which service provider's services are more advantageous to the organization. The conceptual cost for buying the services of different services providers may lead to increase in budget or wastage of money and time. So the solution to this problem is trying out the simulation tools. these tools may include the different algorithms used by different service providers..

**Keywords:**- Cloud Computing, Simulation Tools, Comparison between simulation tools, Services of Cloud Computing, Components of Cloud Computing

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## **Cloud Computing Simulation Tools**

## N.Marieswari<sup>1</sup>, Dr.V.Krishnapriya<sup>2</sup>

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**Abstract:** Cloud computing is the trendy topic all over the world. As there are so much service providers of the cloud are available in the competitive world. A decision has to be taken that which service provider's services are more advantageous to the organization. The conceptual cost for buying the services of different services providers may lead to increase in budget or wastage of money and time. So the solution to this problem is trying out the simulation tools, these tools may include the different algorithms used by different service providers.

**Keywords:** Cloud Computing, Simulation Tools, Comparison between simulation tools, Services of Cloud Computing, Components of Cloud Computing

#### I. Introduction

Cloud computing is the term related to the network. Cloud computing refers to hardware and software services are provides over the Internet. Cloud refers to the model, where user can have access to the shared pool of resources such as database servers, applications or storage over the network. People, today, are shifting from traditional computing towards cloud as it provides higher reliability, fault tolerance, broad network access, on demand usage etc.Cloud computing is often used with the term Fog Computing. Fog computing refers to the facility of processing and storing data in the Local Area Networks in conjunction with the cloud computing.

#### **II.** Components Of Cloud Computing

The cloud computing encompasses virtual pool of resources and applications that can be used through a self service portal. The components of the cloud computing according to the end user are explained as follows:

#### 2.1 Client:

A client is a device or software that user can use an interface to access the services related to clouds.

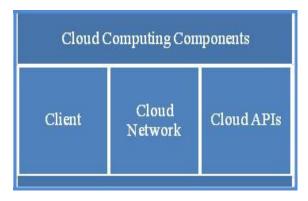


Fig. 2.1: Components of Cloud Computing

#### 2.2Cloud Network:

It is a network connection between the client and the cloud service providers. The network connection for accessing the services of cloud is so much important. Each and every services of cloud are accessed with a constant network connection.

#### 2.3Cloud Application Programming Interface(APIs):

The cloud API includes the set of instructions that abstract the implementation of the cloud service from the users. API help programmer to connected.

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#### An Overview of Risk Management Approach, Tools and Technology

#### K.K. Nivethithaa<sup>1</sup> and Dr. V. Krishnapriva<sup>2</sup>

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ABSTRACT: The word "risk" is marked out as mishap that may arise in future due to some current actions. In software engineering, risk management handles variety of harms that occurs in the software due to small mistakes during the software development process. Risk management is a most influential issue which is handled by software project management (SPM). During the software life cycle many risk are related with

Keywords: Risk Management, Management Tools, Analysis, Monitoring, Planning.

#### I. INTRODUCTION

As several risks are connected with software development the cue to identify and control and manage these risks is to know about the software risk management.

There are two main types of risks are involved.

- They are as follows:
- -INTERNAL RISK-which can be controlled
- -EXTERNAL RISK-which are beyond control

#### II. GOALS OF RISKMANAGEMENT

- -To identify risk
- -To reduce the impact and odds of risk.
- -To monitor risk

#### III. RISK TYPES

- A. Software Quality Risks
- -Inadequate budget and documentation
- -Lack of project standard and design
- -Lack of testing and knowledge about Software.
- B. Software Requirement risk
- -Lack of analysis and reports for requirements

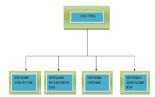


Fig. 1. Types of Risks.

-Poor definition and ambiguity of requirements. -Invalid requirements.

- C. Software Cost Risk
- -Lack of testing and monitoring
- -Requirement and testing changes
- -Technology and Schedule change
- -Malfunctioning of hardware and software tools
- D. Software Scheduling Risk
- -Lack of managing skills
- -Inadequate knowledge and budget

#### IV. RISK MANAGEMENT PROCESS

The following are list of process involved in risk management:

- a) Software Risk Identification
- b) Software Risk Analysis
- c) Software Risk Planning
- d) Software Risk Monitoring

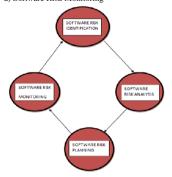


Fig. 2. Risk Management process.

#### a) Software Risk Identification

First step in software risk identification is to study and understand the risks which occurred in previous projects. After examining the project plans, look out for the most possible area which are exposed for risk. The outsmarted way to analyse a project plan is by converting it to a diagrammatic representation like flowchart and check all the important areas. Any resolution taken regarding the project factor must be assessed first. The most important factor is to specify the risk id, date of identification and it's description.

#### b) Software Risk Analysis

Software Risk Analysis is the second important step in risk management. In this step the identified risk is categorized. Later the impact, likelihood, level of categorized risk is analysed. Likelihood is defined as volume of risk which may occur due to certain technical condition like complexity of technology and low quality tools etc. Impact is defined as consequences which occur while facing risk like loss of money, customer, reputation, licence etc. There are levels of risks and they are defined high, low and medium.

#### c) Software Risk Planning

Software risk planning is the third step which defines the preventive methods to avoid or bring down the likelihood of various risks, impact of risks. And software risk planning monitors the process in the project for early detection of risks.

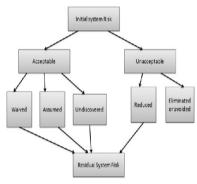


Fig. 3. Software Risk planning.

In the above Fig. 3 initially the risks are identified, and then they are categorized in to two types as acceptable and unacceptable. Acceptable risk is once again categorized in to three groups as waived (ignore), assumed and undiscovered. Unacceptable risk are either reduced or eliminated. Finally the residual or remaining risk consists of waived, assumed; undiscovered and reduced risks are monitored.

#### d) Software Risk Monitoring

Software risk monitoring is the fourth and final step in software risk management. The risk monitoring process

is merged along with project activities. Continual checks are done upon top risks. Software risk monitoring consists of the following tasks.

- -Keeping track of risk plans for any major changes.
- -Preparatory measures of status report are done.
- -Regular monitoring for new risks
- -Evaluation risk is done. The lowest impact risk is

#### V. RISK MANAGEMENTAPPROACH

#### A. Requirement analysis

First Documents are reviewed to eliminate errors. Next assessment of risk is done based on cost, schedule etc. Then failure and highly risk areas are identified and entered in risk register. Tolerance level is calculated and based on these levels requirements are prioritised.

#### B. Testing Process

After the analysis risk based testing is initiated so that high and medium level risks can be taken in to account for planning, implementing and monitoring. And Low level risks are kept under surveillance.

Next Quality of data is analysed and tests are planned according to levels of risks. Here various testing techniques are used in an appropriate way so that high priority risks are tested first. And different testing techniques, test data and test conditions are prepared.

The above step is followed by analysis of test plan. strategy, cases and other document generated by testing team. After performing these tasks test runs, test cases and quality check is carried out.

#### C. Risk Based Testing

Risk based testing is used at all the levels. There are five testing techniques to proceed risk based testing and they are as follows:

- -Path Flow Testing-Ensures every path in the program are executed at least once
- -Experience Based Testing-Testing with the aid of experience gained all these years.
- -Boundary Value Analysis-Testing boundaries between partitions.
- -Equivalence Partitioning-Test condition is partitioned in different classes.
- -Decision Tables- To test system behaviour for various inputs .Everything is represented in tabular column.

In risk based testing highly risk areas are evaluated and high risks are fully tested. Here retesting and regression testing is done to validate defect fixes and residual risks are calculated. Finally risk monitoring and control is initiated and customer feedback is obtained.

#### VI. RISK MANAGEMENT TOOLS AND TECHNOLOGY

#### A. A1 Tracker

-It is a web based tool used to record and manage the risks

-A1 Tracker is used to build user friendly products.

-A1 Tracker is utilized to its maximum by professional users only and it is tough to learn. But it is highly opted.

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Special Issue



### PREDICTING ANEMIA IN PREGNANT WOMEN BY USING GAUSNOMINAL **CLASSIFICATION ALGORITHM**

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Abstract: Anemia is a massive medical problem in the developing world. Getting pregnant at a young age combined with high purity, bad hygienic conditions and a bad diet, contributes to give women bad health. In the previous studies are many complexities for predicting pregnancy outcomes in women with systemic lupus erythematosus (SLE). The objective of this paper is to find out the prevalence of anemia in pregnant women and young children and its correlation of iron deficiency with demographic factors. In this research paper aims to present an enhanced ADD-Left Remove-Right selection (ALRR) sequential feature selection process and Gausnominal classification algorithm to predict the anemia disease classes (Mild, Not anemic and Severe or moderate) based on the data mining techniques. The results shown that the performance of the new scheme is effective compared with other Classification of ANN algorithms. As the Experimental results show, proposed Gausnominal classification with ALRR sequential feature selection methods clearly outperforms than ANN.

Keywords: Anemia, data mining, Classification, Feature Selection.

#### Introduction

Data mining is a technique to recognize and exchange raw data into valuable information, is increasingly being used in a mixture of fields like business intelligence, marketing, scientific discoveries, biotechnology, multimedia and Internet searches. Data mining is an interdisciplinary field merging concepts from machine learning, statistics and natural language processing.

In classification that women and Children are severe anemia description for an excessively huge amount of sensitive medical troubles and deaths, this paper brought mutually interested parties representing several of the finest information and knowledge in India to observe the data on anemia and maternal humanity and to communicate the growth of a mechanism to recognize and treat women and child at elevated risk. In making suggestions for better effectiveness and efficiency of involvements, solutions were careful not to cooperate or otherwise restore the previous focus on pleasuring women with mild or moderate anemia, because these women too are at hazard (or at least there is inadequate confirmation to show that they are not at risk), except when there is clear verification to the contrary. Anemia has been a very significant nutritional disorder in the world. India has a big chunk of population suffering from anemia. India has reported high occurrence of anemia in pregnancy. In one of the studies conducted on a great population, it was predictable that 87% of the Indian pregnant women are anemic [1].

Maternal anemia is an ordinary problem in pregnancy in developing countries like India. According to WHO, anemia is defined as the hemoglobin level < 11gm.dl It's due to iron

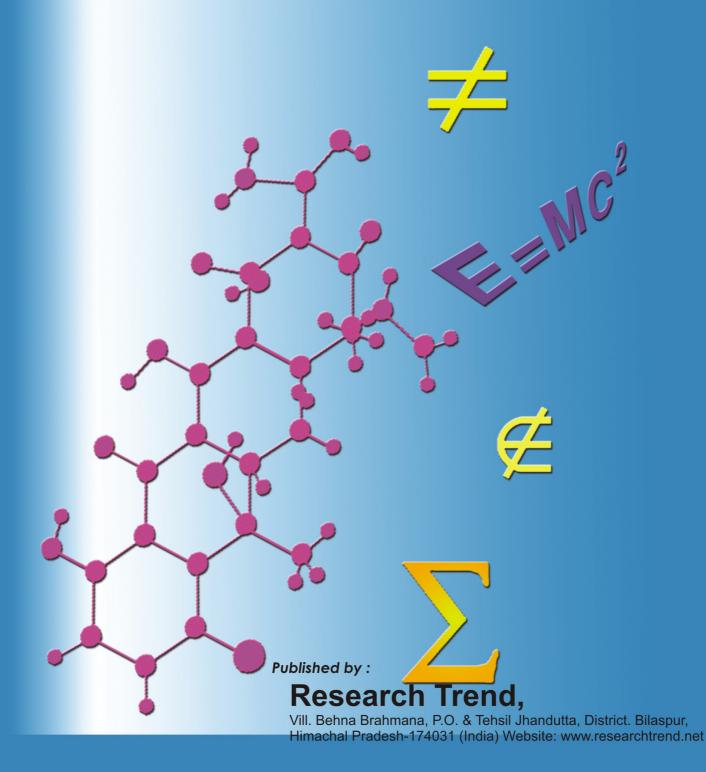
deficiency has severe health and practical problems and the majority of its nutritional mechanism are convenient with a particularly high benefit/cost ratio. It is predictable that 1500 million people are anemic globally. Maternal anemia is measured as a possible factor for poor pregnancy result and threatens the life of mother and child. Though, the amount to which the maternal hemoglobin concentration involves the child weight and could result is still uncertain. Several studies have revealed a strong association connecting low hemoglobin before delivery and unfavorable result, while other studies have not found a considerable association.

Systemic lupus Erythematosus (SLE) is a chronic autoimmune disease with a universal distribution. SLE, as an inflammatory multi-system disease with unidentified aetiology, has dissimilar clinical manifestations and symptoms, laboratory signs, and prognosis in patients [2]. Pregnancy in SLE-affected women is a major challenge. Young women with SLE who desire to become pregnant encounter an amount of risks to their and their unborn baby's health [5]. Pregnancies in SLE-affected women may lead to foetal defeat in the appearance of an impulsive abortion or intrauterine foetal death [3]. Foetal loss has reduced considerably from 43% in the 1960s to 17% in the early 2000s in SLE-affected women [6]. Even though in current years foetal survival has amplified due to improved considerate of the causes of abortion in SLE patients and better therapeutic approaches [4, 7], foetal loss persist to be senior among SLEaffected women than the normal population. In general 20% of pregnancies in SLE-affected women end up in foetal loss [6]. A study conducted in 2013 shows a pregnancy loss rate of 35.8% in organ-threatening SLE-affected women compared with healthy women where the pregnancy loss rate is 8.9% [8]. Generally, the incidence of spontaneous abortion is



VOL. 10(1): January-June, 2018 Print ISSN No.: 0975-1718

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# A Survey on Detection and Prediction of Dengue Fever using Data Mining Techniques

#### Griizma K R<sup>1</sup> and Dr. N. Tajunisha<sup>2</sup>

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ABSTRACT: Data mining is mainly used to derive the knowledge using the data analytics techniques from an enormous amount of data. Detection and prediction are commonly performed in data mining. Data mining is applied widely in healthcare industries. The detection and prediction of the dengue. Fever is classified and predicted using data mining techniques. The classification algorithms concentrated are Naive Bayes, J48, REP Tree, ZeroR, Random Tree and SOM. The performances of Various Classification Techniques applied to the Dengue dataset are evaluated and the performances are compared to evaluate the accuracy level of the result.

Keywords: Data mining, Classification- Naïve Bayesian, J48, SOM, Dengue Dataset, Technique, Prediction.

#### I. INTRODUCTION

Data mining is the process of analysing and extracting knowledgeable patterns from an unknown enormous dataset. Dengue Fever is broadly categorized as Dengue Fever (DF) and Dengue Hemorrhagic Fever (DHF) by World Health Organization (WHO). Hemorrhagic Fever is further classified into four groups as DHF 1, DHF 2, DHF 3 and DHF 4[1]. The illness will evidence with the indications such as joint-pain, headache and retro orbital pain Life threatening disease is caused by female Aedes mosquitoes. Dengue Fever can be detected in 2-3 days. Dengue Hemorrhagic Fever is difficult to detect even after 2-7 days having prolonged symptoms and signs. Dengue Fever and Dengue Hemorrhagic Fever cannot be differentiated at the earliest [2]. Data mining provides advantages in the medical field broadly. Data mining analysis of the medical services on Dengue can be cost effective and effective which would drastically change the death rates [3]. Dengue Fever is a rapidly spreading epidemic disease usually found in hot regions. Data mining techniques are used to categorize the dengue patients correctly, offer treatments accordingly with faster and accurate results using different algorithms [4]. Weka is used to classify data and can also predict dengue with accuracy. Bioinformatics uses Weka for diagnosing and analysing dengue datasets. Weka algorithms can generate useful predictive model for extracting knowledge from dengue dataset [5]. Knowledge Discovery in Databases including Data mining techniques is a popular research tool to exploit patterns, diagnosis and prognosis Dengue in Medical research [6].

#### II. DENGUE FEVER

Dengue Fever also known as Arbovirus disease transmits the infections through the nip of aedes albopictus. Arthropod-borne viral disease was first infected at Philippines in 1953. Later Dengue breaks through more than 100 nations infecting 2.5 billion individual increasing in the mortality rate. World Health Organisation distinguished Dengue fever into two types as Dengue Fever (DF) and Dengue Hemorrhagic Fever (DHF). Dengue Hemorrhagic Fever (DHF) is further classified into DHF I, DHF II, DHF III, DHF IV. Every year, it is roughly assessed 100 million instances of Dengue Fever (DF) and 250,000 instances of Dengue Hemorrhagic Fever (DHF). Dengue Fever is spread by the single stranded RNA flavivirus. Dengue Hemorrhagic Fever can be detected only if fever persists for 2-7 days with symptoms such as spillage of plasma, stun and frail heartbeat. It is difficult to differentiate Dengue Hemorrhagic Fever from Dengue Fever [3].

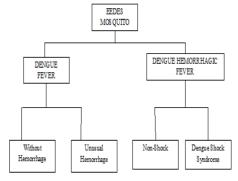
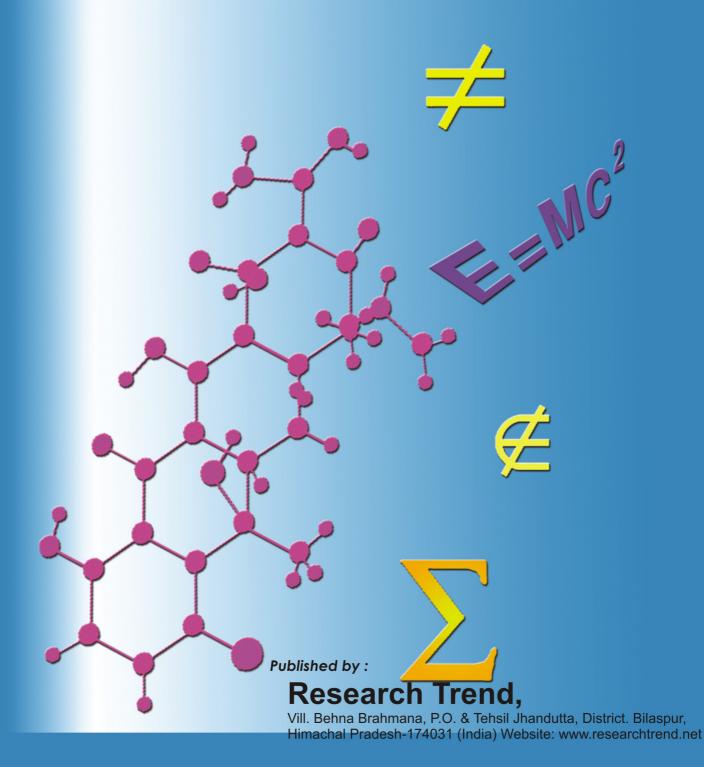


Fig. 1. Symptomatic Dengue Infection.



VOL. 10(1): January-June, 2018 Print ISSN No.: 0975-1718

Online ISSN No.: 2249-3247





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International Journal of Theoretical & Applied Sciences, Special Issue 10(1): 95-97(2018)

International Conference on SMAC - Reshaping the Future (February 2018)

ISSN No. (Print): 0975-1718 ISSN No. (Online): 2249-3247

#### A Survey on Ovarian Cancer Detection using Data Mining Techniques

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ABSTRACT: The Ovarian cancer is one of the most critical cancer types that found in various ages of women. Significant number of researches is on process to predict and classify the stages of the ovarian cancer. The primary focus of this paper is to survey the cancer symptoms recognition based on prediction strategies at initial stage and to classify disease based stages. To handle the implication, lots of techniques has been proposed for the cancer detection and prediction. This Classification models enables the different kind of treatment procedures either with surgery, radiotherapy or chemotherapy. The detection of disease and classification of stage eases the treatment of patient with minimum risk and fewer side effects.

Keywords: Ovarian Cancer, Metastatic Tumor Detection, CT images, Data Mining.

#### I. INTRODUCTION

Ovarian cancer is the 2<sup>nd</sup> familiar cancer amongst gynecologic malignant and has the largest mortality rate [1]. Treatments for ovarian cancer are becoming better, and the best outcomes are always seen when the cancer is found earlier. Due to the deficit of an effective early cancer screening and detection method, more than 70% of ovarian cancers are diagnosed at an adduced stage (III or IV) with tumor metastasis to other organs. The current 5-year survival rate for the adduced ovarian cancer patients are less than 30%. [2]. Cancer progression can be quite different between patients, yet the patients are often treated with the same therapeutic regimen to improve the efficiency of medical diagnosis, Due to the heterogeneity of the ovarian cancer cases, identifying and applying effective therapeutic drugs to the individual patients becomes an important issue to increase patients' progression. Thus there are different data mining techniques used to detect as well as predict the cancer at earlier stage.

#### II. OVARIAN CANCER

There are five main subtypes of ovarian cancer, of which high-grade serous carcinoma is the most familiar. These tumors are believed to start in the cells covering the ovaries, though some may form at the Fallopian tubes. Less familiar types of ovarian cancer include germ cell tumors and sex cord stromal tumors.

#### A. Staging of ovarian cancer

It refers to the reach to which it has spread to other organs or tissues. This is typically estimated during surgery. Stages of ovarian cancer are as follows:

**Stage I:** The cancer is confined to the ovaries

Stage II: The cancer reach to the uterus or other pelvic organs

**Stage III:** The cancer reach to lymph nodes or lining tissues of the abdomen

**Stage IV:** The cancer reaches to distant sites, like the liver or lungs.

#### B. Diagnosing Ovarian Cancer

Image testing like Computed Tomography, Magnetic Resonance Imaging, or UTZ can impart an ovarian mass, but only a sampling of the tissue can resolve whether the mass is cancerous. A biopsy is analyzed in a laboratory to resolve whether the ovarian mass biopsied is due to cancer or not.

#### C. Screening Tests

Screening test for ovarian cancer in its initial stages is one is the UTZ scan of the ovaries and second is the measuring levels of protein in the blood. Else of these techniques are used to save lives to test female of average risk. Therefore, screening is currently recommended only for female at larger risk [2].

#### III. REVIEW OF LITERATURES

There are different techniques and methods proposed by various authors for the prediction and detection of cancer regions. Every technique has its own merits and demerits. Some of the existing techniques and methods are given. L.R. Folio *et al.* [3] In this paper the author have defined the problem as to evaluate a new software capability that integrates registration, segmentation and tumors measurement across serial exams within a picture archiving communication system (PACS) to expedite tumors measurement using Bland-Altman plots using the lung and Liver datasets, demonstrated 95% confidence interval of ±0.7 cm when comparing with the software-generated and manual RECIST measurements.

# INTERNATIONAL JOURNAL OF THEORETICAL & APPLIED SCIENCES

Published By Research Trend (ISSN NO. Print: 0975-1718, Online: 2249-3247)

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Indexing (indexing.php)

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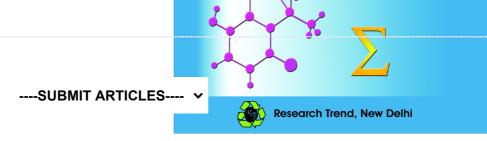
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ISSN No. (Print): 0975-1718 ISSN No. (Online): 2249-3247

#### Optimization of Support Vector Machine Parameters using Grid Search Method

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ABSTRACT: Classification technique is one of the most important machine learning techniques to separate the information into different groups or categories. There are many classification algorithms such as Decision tree, Support vector machine, Naïve Bayes, and Artificial Neural Network. Support Vector Machine (SVM) is a learning algorithm which can be applied for both categorization and regression challenges. In this composition, support vector machine is applied for classification of the Iris dataset in R tool and the parameters of SVM are optimized to get the optimal result. The optimized results are more serious than the initial consequences of the proposed classifier.

Keywords: Classification, Support Vector Machine, R tool, Regression

#### I. INTRODUCTION

Machine learning is defined by Arthur Samuel in 1959. Machine learning is the arena of computer science that developed from the work of computational learning theory in artificial intelligence. It explores the subject area and building of algorithms that can learn from and make predictions on data. Such algorithms operate by building a model of a sample training set of input data to create data-driven predictions or decisions expressed as outputs.

#### A. Types of Machine Learning

Supervised learning, Unsupervised learning and Semi-supervised learning are the dissimilar cases of machine learning. A supervised learning algorithm analyses the training data and produces an inferred function. Unsupervised learning is the task of inferring a function to describe concealed structure from unlabeled data [1]. Semi-supervised learning is a course of study of supervised learning methods and techniques that also gain use of unlabeled data for training. Semi-supervised learning lies between unsupervised learning and supervised learning

#### B. Applications of Machine Learning

Machine Learning can be applied in the following fields:

- · Bioinformatics
- Computer vision
- Data Mining
- Natural Language Processing
- Pattern Recognition
- Speech Recognition
- Recommendation system

#### II. SUPPORT VECTOR MACHINES

Support Vector Machines (SVMs) are supervised learning methods used for classification and regression tasks that originated from statistical learning theory [2]. Support Vector Machines were extremely popular around the time and a high-performing algorithm with slight tuning. It is an exciting algorithm and the concepts are quite simple. A hyperplane is a line that splits the input variable space. In SVM, a hyperplane is selected to separate the data points in the input variable space by its class, either class 0 or class 1. The Separation of the input points can be visualized in n-dimensional space. SVM is normally intended for binary classification problems and further improved for regression and multi-class classification.

#### A. Maximal-Margin classifier

The Maximal-Margin Classifier is an imaginary classifier that describes the working of SVM [3]. The distance between the line and the closest data points is referred to as the margin. The optimal line that can separate the two classes is called the Maximal-Margin hyperplane. The margin is calculated as the perpendicular distance from the line to only the closest points. But these points which are relevant in defining the line and constructing the classifier are called support vectors. The support vectors define the hyperplane. The hyperplane is learned from training data using an optimization procedure that maximizes the margin.

#### B. Soft-Margin Classifier

Real data are chaotic and cannot be separated perfectly with a hyperplane [3]. The constraint of

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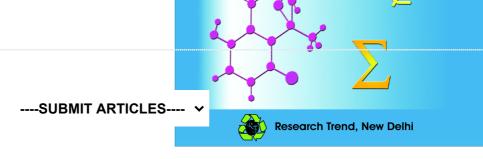
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# A Literature Survey on Decision Tree Algorithm of Classification Techniques

M. Jaithoon Bibi and Dr. C. Yamini

Abstract---In this modern era, large amount of data stored in databases is increasing at a tremendous speed. This growth gives a view for various research fields in Knowledge Discovery Patterns and Data Mining. Data mining is the process of extracting meaningful information from large database. Classification is a data mining technique used to predict group membership for data instances. Decision tree is one of the most effective methods in classification technique. The aim of this paper is to analyze some decision tree classification algorithms like ID3, C4.5, CART and CHAID.

*Keywords---*Data Mining, Decision Tree, ID3, C4.5, CHAID, Classification, CART.

#### I. Introduction

DATA mining is a process of extracting the useful pattern in the large amount of data. The term data mining is also referred as Knowledge Discovery from Data. Classification is a data mining function that assigns items in a collection to target classes. The goal of classification is to accurately predict the target class for each case in the data. Decision tree classification approach is most useful in classification problems. It is a flow chart like tree structure. Trees are constructed in a top down recursive divide and conquer manner. Decision Trees classification algorithms are one of the classification method due to it their high quality, effectiveness, opportunity of multi-level classification of large data and capacity to handle continuous, numeric and noisy data.

#### A. Decision Tree

A decision tree denotes a method for classifying definite data based on their attributes. Decision tree constructs classification or regressions model in the method of a tree structure. A Structure of the decision tree includes a root node, branches, and leaf nodes. Test on an attribute are denoted by each internal nodes, the outcome of a test are denoted by each branch, and holds a class label are denoted by each leaf nodes. The topmost node in the tree is the root node. Each branch/internal node can have two or more branches depending upon the selected algorithm. The decision tree approach is most useful in classification problems. Basic steps

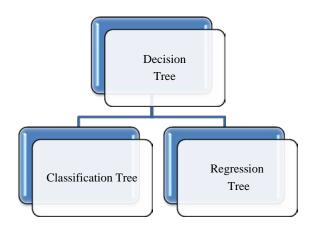
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are followed in decision tree techniques are building the tree and applying tree of the database. Classification problem using decision tree is a two-step process, the first step is construct a decision tree using training data and second step is for each  $t_i \in D$ , that is apply the decision tree to determine its class. [3]

#### B. Decision Tree Types

Decision tree algorithm used in data mining are of two types are



- **Classification** analysis is once the predicted outcome is the class to which the data is appropriate.
- **Regression tree** analysis is once the predicted outcome can be considered a real number [3]
- C. Decision tree advantages, disadvantages and issues

Some of the advantages of the Decision tree are

- Both numerical and categorical data can be handled.
- Rules can be generated by easily to interpret and understand.
- The tree size is independent of the databases size.
- Large datasets are also performed well.
- Some of the disadvantages also include in the decision tree are
- Domains must to be divided into categories to be handled.
- Handling Missing data is difficult.

Decision tree algorithm is faced some of the following issues are

- Choosing splitting attributes,
- Ordering of splitting attributes,
- Splits, tree structure,
- Stopping criteria,

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- Published in : Volume 6 | Issue 2 | April 2018 (viewfull.php?&p\_id=IJCRT1812724)
- Published URL: http://ijcrt.org/viewfull.php?&p\_id=IJCRT1812724 (http://ijcrt.org/viewfull.php? &p\_id=IJCRT1812724)
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# SURVEY ON TECHNIQUES OF ENCRYPTION FOR CLOUD STORAGE SECURITY

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Abstract: The cloud service is very suitable to many new companies. Conversely, security issues are being raised based on shared data, since the cloud storage servers and data owners are not in the same domain. Moreover, cloud storage cannot be trusted wholly. As a result, it makes access control more on the shared data a challenging issue that addresses how data owners make certain that their data stored in cloud storage servers are accessed by justifiable users. Cloud computing is considered as an innovatory improvement in data resources management. In addition, cloud data sharing is among the preferred services that are accessible by cloud service providers, which paves the way to data owners for outsourcing their data to cloud data storage servers on the intention of sharing. Cipher text Policy Attribute-Based Encryption (CP-ABE) provides access control in owner's hand in which the secret key of a user and the cipher text are reliant ahead of attributes. Likewise different types of algorithms have been discussed in this paper.

Index terms: Cloud computing, key policy, Access Control, cipher text policy Attribute.

#### I. INTRODUCTION:

The challenges of data security which commences both integral and confidential have been addressed to some point through the implementation of encryption techniques for data on the contrivance or Cloud infrastructure and in transit crosswise the network. On the other hand, such schemes are restricted due to the considerable overhead of administering encryption keys for a huge number of data types, files or documents, to an extensive range of individuals or groups. With the rapid expansion of Cloud computing technology and services there has been found a rush forward in individuals, groups and organizations in uploading data into the Cloud for effortlessness of use or on saving costs. In these circumstances users are capable to share keys to increase on access ahead of their rights. Social networking is a great example where they are vibrant in terms of storage prerequisite by means of cloud. Conversely this lags behind due to the weak security issues and also the use of cloud is not very fast in content sharing networks.

The conventional mechanism is that the data has been encrypted by means of the user's public keys. By the use of these public keys, the owners are able to encrypt the data and then upload the file into the cloud. Whenever the user want to download the file he should decrypt the file with his generated secret key. By decrypting this are problems that arises - like the owner has to search out the public key of the user and the same data is encrypted with diverse public keys which therefore fallsout in storage overhead. The access policy here is utterly based on compliance relationship where the relationship is on edge by user attributes and resource attributes. The attributes may be any information of the user's profession, job roles that is endowed with and is used to give allowance to the access. In CP-ABE the beneficiary can decrypt the data only when the user attribute persuade the access policy and this can be seen as one-to-many public key encryption and the data possessor provides admittance to countless users.

#### II. LITERATURE SURVEY:

#### 2.1Cipher text Policy Attribute based Encryption:

A cryptographic technique named cipher text policy attribute-based scheme has been explained in the year 2007, Bethencourt et al.[1]. The access policy is built with the data that has been encrypted. A plan was made in [2] for the use of CP-AB technique. In a CP-ABE system, a user's key is in relation with a set of attributes and an encrypted cipher text will specify an access policy over attributes. The first KP-ABE construction has been realized from the monotonic access structures for key policies. Bethencourt et al. proposed the first CP-ABE construction. The construction is only proved secured underneath the generic group model. To prevail above this weakness, Cheung and Newport [3] presented an additional construction that is proved to be secure under the standard model. To accomplish receiver-anonymity, Boneh and Waters proposed a predicate encryption scheme based on the primitive called Hidden Vector Encryption. In this projected scheme data owners need not be alarmed about defining any access policy for users, but just need to define only the access policy for attributes as in the previous ABE schemes. This construction is deprived of private keys that will be identified with a set of descriptive attributes.



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# VISUAL LESS KEY BASED FORWARD IDENTITY USING RING SIGNATURE WITHOUT RANDOM ORACLES

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Abstract: Allocation of information consisting of a wide variety of participants and a huge number of elements must be taken in account to several issues, counting effectiveness, data reliability and privacy of data holder or the user who is accessing the data. Visual less key BASED Forward ID Ring signature is a hopeful and potential candidate to the construction of an anonymous and genuine data distribution system. The existing survey comprises of an Identity Based forward secure ring signature method which works without random oracles. The unique aspect of forward security is if a secret key of a consequent ring component is open to the components of other person means, all formerly signed signatures of this component remains applicable. If the attacker has taken the secret key without the knowledge of the user, the attacker cannot categorize or find out any suitable signature produced on the past time period by the valid user. This feature is particularly used in case of ring signature method. The disclosure of a single secret key to the attacker may make millions of ring signatures invalid or not usable to the valid user. Since majority of the ring signature schemes in the literature does not include forward security. Existing scheme satisfies on random oracles to establish the security in ring signature scheme.

Keywords: Validation, data sharing, cloud computing, forward security, smart grid.

#### **I.INTRODUCTION**

In a Ring signature scheme [18] the element of a group signs a message and sends that message to the all members or special components in the entire group. The member who validates or the group member who receives the message cannot be able to recognize who the actual signer in the group is. The ring group can be created by vibrant fashion. The member in the group is not needed for any collaboration.

#### 1.1. Ring Signature with Forward Secure Key:

Forward Secure Ring Signatures was created in order to sort out the problems that are arising due to exposure of keys. This protected signature scheme makes the previous signature to remain secure even though if the current secret key is taken by the attacker. For the key exposure problem the first result was clarified by Bellare and Miner in 2009 [20]. The foremost design of this forward scheme is to separate the duration of the public key into T intervals and in each time interval the same public key is used they corresponds to dissimilar secret keys. A current secret key can only be used to originate the furtive key in the future, but not in the past. Consequently the conciliated secret key that is created currently does not permit the attacker to falsify signature accumulated at the past time.

Forward secure ring signatures were designed and proposed by Liu and Wong in 2012 [21] in order to determine the key revelation problem in ring signatures for a collection of members. The incentive of this procedure is to lower injure caused by the secret keys that are exposed in ring signatures by the malicious attackers of the valid users. Even though the secret key is conciliated by the attacker the formerly generated ring signatures remain valid and do not need to be re-created. This proposed security model provides a solid construction without the use of random oracle models.

#### 1.2. Cryptography with Public key:

In conservative public key cryptography scheme the security of a crypto system is definite and more assured under some intractability where the data are not controlled and not easily accessed. Hence the secret key is kept secret from the adversary or the attacker. In the real world though the security issues are advanced and implemented the attacker somehow tries to steal and may use many ways to conciliate a secret key. Hackers may grab the secret key if your system is contaminated with viruses or some Trojans. The attacker can get the code word when the user uses this secret key in a fraudulent website.

Therefore, it is very essential to the user to lessen the damage caused by the attacker although if the entire or sometimes even partial secret key is vanished by the attacker. If the attacker knows full secret key, he can sign or decrypt any message on behalf of the indignant party. This is often used for creating huge number of problems through ring signatures, because the attacker can fake a message of the whole 7/3/2021 IJLEMR

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# An Optimized Distributed Weight-Based Adaptive Stable Clustering (DWASC) Algorithm In Mobile Ad Hoc Networks

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**Abstract:** In mobile ad hoc network, every node is proficient of sending message (information) dynamically without constraint of any fixed infrastructure. Mobile nodes commonly progress in or out from the entire network dynamically, making network topology unstable in mobile ad hoc network (MANET). In a group, cluster head is dependable for communication with associates in a cluster which consumes additional battery (energy) power in evaluation to cluster members. As a message transmission result, it becomes an enormously challenging task to maintain stable network. In this paper aims to present a Distributed Weight-based adaptive stable clustering (DWASC) algorithm in NS (Network Simulator) 2.34 Framework. The proposed method the DWASC protocol operates exclusively based on source routing and on-demand process, it has been selected as the routing protocol to be executed and tested for ad hoc network application characterized by a source on-demand message conversation between nodes in a mobile ad hoc network.

**Keywords:** Cluster head, Clustering scheme in MANET, Adaptive stable cluster, Routing.

#### **INTRODUCTION**

A mobile ad hoc network (MANET) is an autonomous infrastructure less network in which collection of mobile nodes (i.e., mobile, sensor, palmtop, laptop) dynamically communicates with each other through wireless medium within their own transmission range (using single hop or multiple hops) via intermediate nodes [1]. The infrastructure less nature of mobile ad hoc network causes frequent change in the topology of network due to dynamic mobility of mobile nodes, communication management, and creation of a stable network are the most challenging tasks in MANET. Clustering is a possible solution to address these existing challenges. With the help of clustering, nodes are organized into different groups that make the network more robust, durable, and scalable

The mobile ad hoc network (MANET) can be deployed without requirement of any further extracost and time. In a MANET, every mobile node plays a role of router along with its job as an ordinary host. MANET still has some challenges like limited bandwidth, limited battery power for each mobile node, and frequent topology changes because of node movement [3, 4]. To list such complex and dynamic environment challenges of mobile ad hoc network, various clustering algorithms have been proposed in the literate [5]. Several routing protocols have been proposed in the literature to handle the one hop and multi-hops, self-organizing network based on proactive, reactive, and hybrid protocols [1]. Routing protocols are categories in three categories which are Proactive, Reactive Active and Hybrid Protocol. Proactive protocol remains activate all the time in network even there is no data to transmit and keeps route information available all the time from source to destination.

Clustering in MANET can be defined as the virtual partitioning of the dynamic nodes into various groups. Groups of the nodes are made with respect to their nearness to other nodes. Two nodes are said to be neighbor of each other when both of them lie within their transmission range and set up a bidirectional link between them.

Clusters in MANET can be categorized as overlapping clusters or non-overlapping clusters as is shown in figure 1. The small circles represent the wireless nodes in the network. The lines joining the nodes denote the connectivity among them. Cluster control structure forms the virtual backbone of communication where cluster heads are the communication hot spots. The cluster head works as the local coordinator for its member nodes and does the resource management among them similar to a base station of cellular architecture. These cluster heads How start New Journal & software (http://ijcrt.org/How to start new journal & journal supporting software.php)

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Published in: Volume 6 | Issue 2 | April 2018 (viewfull.php?&p\_id=IJCRT1812724)

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# SURVEY ON TECHNIQUES OF ENCRYPTION FOR CLOUD STORAGE SECURITY

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Abstract: The cloud service is very suitable to many new companies. Conversely, security issues are being raised based on shared data, since the cloud storage servers and data owners are not in the same domain. Moreover, cloud storage cannot be trusted wholly. As a result, it makes access control more on the shared data a challenging issue that addresses how data owners make certain that their data stored in cloud storage servers are accessed by justifiable users. Cloud computing is considered as an innovatory improvement in data resources management. In addition, cloud data sharing is among the preferred services that are accessible by cloud service providers, which paves the way to data owners for outsourcing their data to cloud data storage servers on the intention of sharing. Cipher text Policy Attribute-Based Encryption (CP-ABE) provides access control in owner's hand in which the secret key of a user and the cipher text are reliant ahead of attributes. Likewise different types of algorithms have been discussed in this paper.

Index terms: Cloud computing, key policy, Access Control, cipher text policy Attribute.

#### I. INTRODUCTION:

The challenges of data security which commences both integral and confidential have been addressed to some point through the implementation of encryption techniques for data on the contrivance or Cloud infrastructure and in transit crosswise the network. On the other hand, such schemes are restricted due to the considerable overhead of administering encryption keys for a huge number of data types, files or documents, to an extensive range of individuals or groups. With the rapid expansion of Cloud computing technology and services there has been found a rush forward in individuals, groups and organizations in uploading data into the Cloud for effortlessness of use or on saving costs. In these circumstances users are capable to share keys to increase on access ahead of their rights. Social networking is a great example where they are vibrant in terms of storage prerequisite by means of cloud. Conversely this lags behind due to the weak security issues and also the use of cloud is not very fast in content sharing networks.

The conventional mechanism is that the data has been encrypted by means of the user's public keys. By the use of these public keys, the owners are able to encrypt the data and then upload the file into the cloud. Whenever the user want to download the file he should decrypt the file with his generated secret key. By decrypting this are problems that arises - like the owner has to search out the public key of the user and the same data is encrypted with diverse public keys which therefore fallsout in storage overhead. The access policy here is utterly based on compliance relationship where the relationship is on edge by user attributes and resource attributes. The attributes may be any information of the user's profession, job roles that is endowed with and is used to give allowance to the access. In CP-ABE the beneficiary can decrypt the data only when the user attribute persuade the access policy and this can be seen as one-to-many public key encryption and the data possessor provides admittance to countless users.

#### II. LITERATURE SURVEY:

#### 2.1Cipher text Policy Attribute based Encryption:

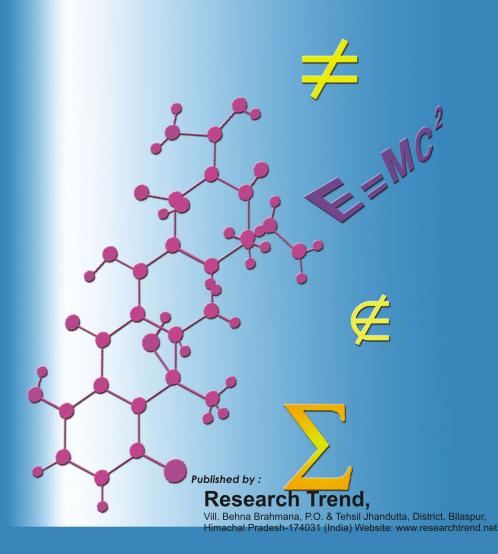
A cryptographic technique named cipher text policy attribute-based scheme has been explained in the year 2007, Bethencourt et al.[1]. The access policy is built with the data that has been encrypted. A plan was made in [2] for the use of CP-AB technique. In a CP-ABE system, a user's key is in relation with a set of attributes and an encrypted cipher text will specify an access policy over attributes. The first KP-ABE construction has been realized from the monotonic access structures for key policies. Bethencourt et al. proposed the first CP-ABE construction. The construction is only proved secured underneath the generic group model. To prevail above this weakness, Cheung and Newport [3] presented an additional construction that is proved to be secure under the standard model. To accomplish receiver-anonymity, Boneh and Waters proposed a predicate encryption scheme based on the primitive called Hidden Vector Encryption. In this projected scheme data owners need not be alarmed about defining any access policy for users, but just need to define only the access policy for attributes as in the previous ABE schemes. This construction is deprived of private keys that will be identified with a set of descriptive attributes.



VOL. 10(1a): Special Issue, January-June, 2018

Print ISSN No.: 0975-1718

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#### Speech Recognition for Speakers with Dysarthria using TORGO Database

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ABSTRACT: Automatic speech recognition(ASR) is being used in a range of assistive contexts, comprising home computer systems, mobile telephones, and various public and private telephony facilities. Dysarthria is a motor speech disorder in which the person lacks the control over articulators used for speech production. Speech accuracy is the outcome of well-timed and coordinated activities of the articulators and other related neuro muscular feature. Speech of the dysarthric disordered people is assessed using structured sparse feature selection and prediction. In this proposed work, Speech utterance is converted into a phone sequence and histograms of the pronunciation mappings are done by using Mel-frequency cepstral coefficients. Structured sparse feature selection is done using Hidden Markov Models. Prediction is done using Inverse Mel-frequency cepstral coefficients. The TORGO database is mostly a resource for emerging ASR models more suitable to the requirements of people with atypical speech production, although it is similarly useful to the more general ASR community. TORGO Database is used here to identify the dysarthric disabled person.

Keywords: Dysarthria, Sparse feature selection, MFCC, Hidden Markov Models.

#### I. INTRODUCTION

Automatic speech recognition is being used in a range of assistive contexts, comprising home computer systems, mobile telephones, and various public and private telephony facilities. Despite their developing presence, commercial speech recognition technologies are quiet not easily hired by individuals who have speech or communication disorders. While speech disorders in older adults are common, there has been reasonably little research on automatic speech recognition performance with older adults. However, research findings advise that the speech characteristics of the older adult may, in some ways, be related to dysarthric speech. Dysarthria, a common neuro-motor speech disorder, is particularly valuable for exploring automatic speech recognition performance limitations because of its widespread range of speech expression. Dysarthria is a set of inherited and traumatic neuromotor disorders that harm the physical production of speech. These impairments decrease or remove normal control of the primary vocal articulators but do not disturb the regular comprehension or production of meaningful, syntactically correct language. Congenital causes of dysarthric speech are often initiated by some sort of asphyxiation of the brain, impeding normal development in the speech-motor areas [1].

A feature representation method based on alignment with the decoded (spoken) phone sequence resulting from an ASR system and canonical phone sequence from a standard pronunciation dictionary. To this end, a weighted finite state transducer (WFST) [2] is employed as an alignment tool to capture phone-level mappings including match, substitution, and deletion. A WFST is a very powerful and flexible framework in mapping input and output symbols, and therefore, it has been utilized in various speech and language processing applications such as machine translation, pronunciation modeling, and effi- cient speech recognition [3].

Feature selection and intelligibility scoring methods based on structured sparse linear models. Sparse linear models seek to predict an output by linearly combining a small subset of the features.

The TORGO database is mostly a resource for emerging ASR models more suitable to the desires of people with atypical speech production, although it is similarly useful to the more general ASR community. A primary motive for collecting detailed physiological information is to be gifted to explicitly learn 'hidden' articulatory parameters automatically in computer speech models via statistical pattern recognition. This database is also suitable in the clinical domain, especially by linguists and pathologists involved in studying atypical speech production.

#### II. BACKGROUND STUDY

A. Types of Automatic Speech Recognition Systems
There are basically three categories of ASR systems
differentiated by the degree of user training required
prior to use: (1) speaker dependent, (2) speaker

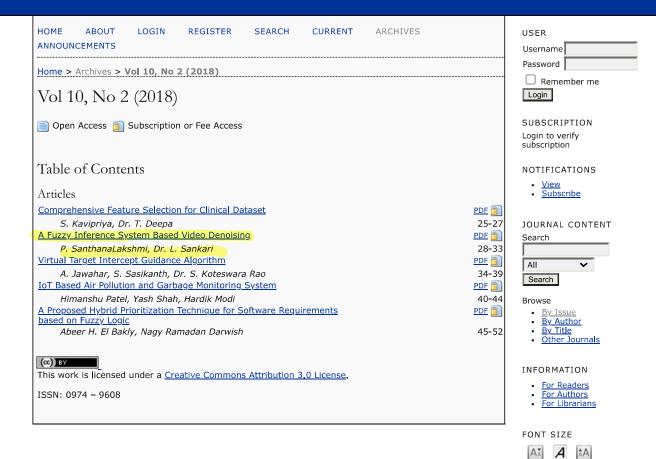
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Journal Help

#### A Fuzzy Inference System Based Video Denoising

P. SanthanaLakshmi and Dr. L. Sankari

Abstract---In video surveillance the video broadcasting takes a major role for inferring the information. Noise existences in the video obscure important details, due to this the quality of images are negotiated in video frames. In this regard it is important to reduce the noise from video frames. One of the video pre processing techniques is noise removal in video frames. There are several existing approaches available to different types of noises in video frames. In this proposed method we adapted the fuzzy based filtering, in this the fuzzy based noise determination and fuzzy based denoising technique is applied by generating fuzzy rule. Since there is a massive deal of eliminate noise from video content, this paper has been committed to noise detection and filtering technology with the aim of eliminate unwanted noise without distressing it unconstructively the clarity of scenes that contain essential detail and hasty motion. In this proposed work the experimental result was conducted using existing denoising filters.

Keywords---Video Processing, Frames, Denoising Filters, Noise and Spatial Video

#### I. INTRODUCTION

THE elementary crisis in video image processing is image quality upgrading by noise reduction. ¹Now-a-days many researches concentrate on applying image/video processing techniques, such as pattern recognition and techniques over signal processing, to solve specific problems in real-world applications.

In various application like the automated age-assessment of skeletal development of babies, children and young adults, using X-rays of the human hand. A difference of the skeletal age with the genetic age indicates growth abnormalities, and thus serves as good problem-solving tool for a number of diseases. New pattern similarity methods were developed to create algorithms for the assessment of the skeletal age of the patient. Almost all the image processing problems carry over to video processing, but magnified by the larger data sizes and the new dimension of time and motion.

#### II. VIDEO DENOISING

Video denoising is the process of extracting the noise from a video signal. Video denoising methods can be divided into spatial, temporal and spatio-temporal. Spatial video denoising method is adopted in this paper. In this method image noise

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reduction is applied to each frame of a video individually. Images are frequently corrupted by noises. Noises occur during image capture, transmission, etc. The most important process in video processing is Noise removal. In this the results of the noise removal have a strong control on the quality of the video processing technique. Various techniques for noise removal are well expanded in color image processing [1, 2].

The nature of the noise removal problem depends on the kind of the noise corrupting the image. In the field of image noise reduction several linear and non linear filtering methods have been projected. Linear filters are not able to efficiently eradicate impulse noise as they have a propensity to blur the edges of an image. On the other hand non linear filters are suitable for dealing with impulse noise. Several non linear filters based on Classical and fuzzy techniques have emerged in the past few years. For example most classical filters that confiscate concurrently blur the edges, while fuzzy filters have the ability to merge edge preservation and smoothing. Evaluated to other non linear techniques, fuzzy filters are able to symbolize acquaintance in a understandable way. In this paper we present results for different filtering techniques and we evaluated the results for these techniques [3, 4].

Image sequence restoration has been progressively achieving importance with the increasing prevalence of visual digital media. The demand for content increases the pressure on archives to automate their restoration activities for preservation of the cultural heritage that they hold. The goal of this paper is to find a pre-processing method based on noise removal.

- A. Types of Noise
- **♦** Salt-and-pepper Noise
- **♠** Periodic Noise

**Salt-and-pepper Noise:** Salt-and-pepper noise or spike noise is also called as Fat-tail distributed or "impulsive" noise [5, 6 & 7]. The images of salt-and-pepper noise will have dark pixels in bright regions and bright pixels in dark regions. This type of noise can be caused by the errors of analog-to-digital converter, bit errors in transmission, etc. This can be eliminated in large part by using dark frame subtraction and by interpolating around dark/bright pixels.

**Periodic Noise:** The signal-to-periodic noise ratio is the ratio in decibels, of the nominal amplitude of the luminance signal (100 IRE units) to the peak-to-peak amplitude of the noise. Different performance objectives are sometimes specified for periodic noise (single frequency) between 1 kHz and the upper limit of the video frequency band and the power supply hum, including low-order harmonics [8].

Manuscript received on January 08, 2018, review completed on January 10, 2018 and revised on January 18, 2018.

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## Assessment of Dysarthria Speech Disorder Using MFCC and Hidden Markov Model

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**Abstract**—Among human and its environment, speech is considered as an efficient form of communication. Dysarthria is a motor speech disorder in which the person has deficiency in the control over articulators, which is mainly utilized for speech production. The well-timed and coordinated activities of the articulators and other associated neuro muscular feature's result are the speech accuracy. With the help of the structured sparse feature selection and prediction, the speech of the dysarthric disordered people will be evaluated. Speech utterance is transferred into a phone sequence in our work and with the help of Mel-frequency cepstral coefficients; the histograms of the pronunciation mappings were performed. Through Hidden Markov Models, the structured sparse feature selection is performed and then with the help of Inverse Mel-frequency cepstral coefficients prediction can be performed. Here we have examined 10 speech data and provided with the good assessment with the help of these methodologies.

Keywords--- Dysarthria, Sparse Feature Selection, MFCC, Hidden Markov Models.

#### I. Introduction

A neurological destruction is nothing but a Dysarthria which affects the control of the motor speech articulators that creates damage to the speech-related muscles, the lack of coordination between them, or their paralysis. This is frequently incorporated with the irregular phonation and amplitude. This impairment results in the compromised speech signal and more over it will minimize its intelligibility. With such disability, the extreme detrimental social characteristics of dysarthria create low intelligibility, which affects various features of the living people.

Automatic Speech Recognition(ASR) systems identifies the mentioned word, which is indicated as an acoustic signal and mostly it depends on the provided lexicon, in order to identify the uttered word(s) and this system has various applications like health care, the military, telephony, and other domains. The disabled people were regularly tangibly incapacitated and can't make use of keyboards, so this system will be very supportive for the people with dysarthria. The acoustic speech waveform is the input to dysarthric speech recognition structure. And its primary target is to identify the exact word which is spoken i.e. to predict the word sequence. Figure 1 explains the basic techniques. From the input raw speech data, the spectral and cepstral features were drawn-out. Moreover it is designed by different classifiers and looked up into dictionary, and then in order to identify the similar match, it will produce the text output.

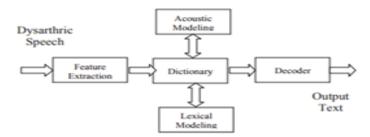


Fig. 1.1: Basic Block diagram of Dysarthric Speech Recognition

The acoustic features of utterances should be indicated to the system with the help a process, which is termed as Feature Extraction, for an ASR system to be achievable. In ASR applications, the utilization of the Mel-Frequency Cepstral Coefficients (MFCCs) is the most public feature-extraction method, which indicates the speech signals in cepstral domain. The real cepstrum of a windowed short-time signal, which is derived from the Fast Fourier Transform of that signal and this is a demonstration, where the frequency bands were spaced on the mel scale

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**VOICE BASED ATM FOR BLIND PEOPLE** 

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Authors

Bhuvaneshwari.S, Dr.S.Vijayalakshmi

Keywords

ATM, PIN, Blind users , fingerprint, Headset

Abstract

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Click Here Automated teller machine is abbreviation for ATM.ATM deals with the ATM card details and the information regarding ATM systems. The voice based ATM is specially designed for blind people. It provides a audible instruction to make use of the instructions .ATM contains information to get ATM card for the user and the usage of that card. ATM cards are found to be an important one for people. People can able to take their amount from the place where they are living. It is very much useful to business people; they can able to save their time. User can also view their account details in the ATM machine just by giving their account number alone. In this e-world the credit card was becomes the popular way of payment for both online and direct purchase. As the usage increased the fraud rate also increased. To control the fraudulent associated with credit card we introduce a new method using fingerprint verification.

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Bhuvaneshwari.S, Dr.S.Vijayalakshmi, "VOICE BASED ATM FOR BLIND PEOPLE", IJRAR - International Journal of Send message (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.5, Issue 4, Page No pp.775-779, November-2018, Available at: http://www.ijrar.org/IJRAR1905019.pdf (papers/IJRAR1905019.pdf) (papers/IJRAR1905019.pdf)

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#### **VOICE BASED ATM FOR BLIND PEOPLE**

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Abstract: Automated teller machine is abbreviation for ATM.ATM deals with the ATM card details and the information regarding ATM systems. The voice based ATM is specially designed for blind people. It provides a audible instruction to make use of the instructions .ATM contains information to get ATM card for the user and the usage of that card. ATM cards are found to be an important one for people. People can able to take their amount from the place where they are living. It is very much useful to business people; they can able to save their time. User can also view their account details in the ATM machine just by giving their account number alone. In this e-world the credit card was becomes the popular way of payment for both online and direct purchase. As the usage increased the fraud rate also increased. To control the fraudulent associated with credit card we introduce a new method using fingerprint verification.

Keywords: ATM, PIN, Blind users, fingerprint, Headset

#### I. INTRODUCTION

Automated teller machine is an electronic device. The Automated teller machine is an independent machine that helps to distribute cash and response the human teller machine like cash withdraw, balance enquiry, credit amount. The introduction of voice based ATM gives audible instructions for blind people so they can easily access the ATM machine. ATMs and credit cards plays a vital role of money transaction. The weakness of existing system is the leakage of password and PIN information can be theft and it may lead to loss of money. To avoid this existing system we developed an idea of fingerprint verification after the verification is verified successfully the user can proceed the transactions.

#### II. MATERIALS AND METHOD

Microsoft Visual Studio 2010 (VB.NET) was used to develop the front end, where user can interact with the ATM machine using Headset. The back end (database) was developed with Microsoft Structured Query Language (MSSQL) server 2008, MSSQL is a relational database management system (RDBMS) use for creating a database for Microsoft Windows family of servers. MSSQL was chosen over other database management tool, due to its ability to provide a working environment to easily generate a database that can be easily and quickly accessed from the internet, workstation, LAN and so on.

#### 1. EXISTING SYSTEM

- 1. In the existing system user need to create their account in the bank. For each transaction the user need to visit the bank, to known their account details.
- 2. The user will be identified by the ATM card, which contains 16 digit number.
- 3. When the user enters the ATM card inside the slot, the system will read the card number and it will ask the user to enter the secret PIN number for the transactions

#### 2. DISADVANTAGES

- 1. Password information leakage can be greatly harmful to user
- 2. Pin security is very less.
- 3. ATM may be difficult to use without headset for blind people

#### 3. PROPOSED SYSTEM

- 1. There are many facilities provided in the proposed system for the user convenience. In this system, if user once create their account in the bank they provide ATM card to the user. With the help of the ATM card they can able to take amount in the nearest ATM.
- 2. Their accounts can be viewed in the ATM machine itself by using their account number.

#### 4. ADVANTAGES

- 1. Security is more efficient in the proposed system by using PIN Entry application.
- 2. Password Guessing is not possible.
- 3. It reduce the time consuming and easy to use for quick transactions
- 4. The Pin security is very huge.

#### III. SOFTWARE MODULES DESIGN

As a requirement of the approach used for implementing the proposed algorithm, four primary phases were required for producing consolidative software levels necessary to meet system objectives and goals. Each module design and tested separately, and then combine together to form a complete application.



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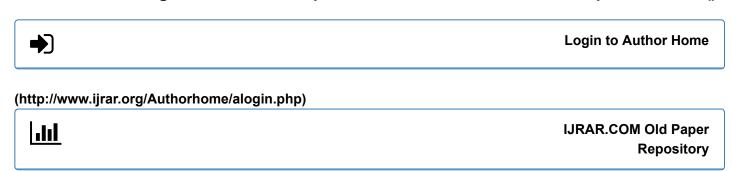


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#### IMPROVED AUTHENTICATION SYSTEM TO AVOID SHOULDER SURFING IN ATM USING **RGB COLORS**

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Abstract: Authentication is one of the important security approaches to protect user privacy in computer based and internet based environments. A common approach for user authentication is using personal identification number and smart cards. PINs are vulnerable to various attacks, such as human shoulder surfing and hidden video recording. The shoulder surfing is an attack that can be performed by the adversary to obtain the user's password by watching over the user's shoulder when user enters the password. Devising a user authentication scheme based on the personal identification numbers PINs that is both secure and practically usable by others, this leads to a problem. Through the analysis the system was improved with the RGB PIN entry scheme.

Keywords: Authentication, ATM PINs, shoulder surfing, RGB pin entry scheme

#### I. INTRODUCTION

There are numerous applications which working based on the different user authentication system and it is a challenging one when it is based on personal identification numbers (PINs) identification system. The greatest difficulty lies with the susceptibility of the PIN entry process to direct observational attacks, such as human shoulder-surfing and camera-based recording. This application starts with an overcome of a previous attempt at solving the PIN entry problem, which was based on Randomized Red-Green-Blue (RGB).

The proposed system consists of 10 digit keypad with random color option. Each and every pin digits bottom side mentioned with three different colors based on RGB color combination. And also right side of the keypad a layout was designed with colors button so that user no needs to click on the keypad digit pin rather user can directly click on to the color button. This method required twelve color combinations uncomfortably with many user inputs, so that human guessing of pin entry is very difficult process. The pin entry processing and storing system is enhanced with additional security features such as applying hash techniques on pin numbers and alert for unauthorized access. The improved application is more secured and efficient, so this system can use to any type of pin entry application.

#### II. MATERIALS AND METHOD

Microsoft Visual Studio 2010 (C#) was used to develop the front end, where system user can graphically interact with the ATM. The back end (database) was developed with Microsoft Structured Query Language (MSSQL) server 2008, MSSQL is a relational database management system (RDBMS) use for creating a database for Microsoft Windows family of servers. MSSQL was chosen over other database management tool, due to its ability to provide a working environment to easily generate a database that can be easily and quickly accessed from the internet, workstation, LAN and so on.

#### 1. EXISTING SYSTEM

- 1. User enters a pre-arranged textual, numerical password directly through the user interface of the authentication system. So, the password submission process is prone to direct observational attacks.
- Entering a password can easily be observed by nearby adversaries in crowded places, aided by vision enhancing and/or recording devices.
- 3. Due to its short length and the simplicity of the ten-digit keypad easily guess the password.

#### 2. DISADVANTAGES

- 1. Partial information leakage can be greatly harmful to user
- Pin security is very less.
- 3. Even at the cost of making naive guessing attacks slightly easier.

#### 3. PROPOSED SYSTEM

- 1. This proposed scheme based on an elegant adaptive 10-digit keypad with RGB colors in the standard layout.
- The improved method required uncomfortably many user inputs, so that human guessing pin Entry is very difficult
- The new scheme has the remarkable property of resisting camera-based recording attacks over an unlimited number of authentication sessions without leaking any of the PIN digits.



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Citation

Abstract

Reference

Full PDF (../papers/Conf.17031-2017/Volume-5/11. 53-57.pdf?id=7557)

Paper Type : Research Paper

**Title** : Cloud Computing Simulation Tools

**Country** : India

**Authors** : N.Marieswari || Dr.V.Krishnapriya

**Abstract:** Cloud computing is the trendy topic all over the world. As there are so much service providers of the cloud are available in the competitive world. A decision has to be taken that which service provider's services are more advantageous to the organization. The conceptual cost for buying the services of different services providers may lead to increase in budget or wastage of money and time. So the solution to this problem is trying out the simulation tools. these tools may include the different algorithms used by different service providers..

**Keywords:**- Cloud Computing, Simulation Tools, Comparison between simulation tools, Services of Cloud Computing, Components of Cloud Computing

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Citation

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Reference

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**Paper Type** 

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**Title** 

Research Paper

Childhood Bone Marrow And Artificial Neural Network

**Abstract:** Childhood leukemia, the most common type of cancer in children and teens, is a cancer of the white blood cells. Abnormal white blood cells form in the bone marrow. They quickly travel through the bloodstream and crowd out healthy cells. This raises the body's chances of infection and other problems. One of the Machine Learning Algorithm Artificial Neural Network is used to find the leukemia, An artificial neural network is an interconnected group of nodes, akin to the vast network of neurons in a brain.. For data regression and prediction, Visual Gene Developer's NeuralNet class is used

**Keywords**: Childhood leukemia, Machine Learning, artificial neural network, NeuralNet White blood cells...

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Citation

Abstract

Reference

Full PDF (../papers/Conf.17031-2017/Volume-5/13. 61-66.pdf?id=7557)

Paper Type : Research Paper

**Title** : A Relative Study of Different Data Mining Algorithms

**Country** : India

**Authors** : B.Thenmozhi Mca || R.Janarthanan Mca, M.Phil

**Abstract:** Data Mining is used comprehensively in many sectors today. The successful application of data mining algorithms can be seen in marketing, retail, and other sectors of the industry. The aim of this paper is to present the readers with the various data mining algorithms which have wide applications. This paper focuses on six data mining algorithms K-NN, Naïve Bayes Classifier, Decision tree, C4.5, ANN and ID3. An attempt has been made to do a comparative study on these six algorithms on the basis of theory, its advantages and disadvantages, and its applications. After studying all these algorithms in detail, we came to a conclusion that the accuracy of these techniques depend on various characteristics such as: type of problem, dataset and performance matrix.

Keywords: Data mining, k-NN, Naïve Bayes classifier, Decision Tree, C4.5, ANN, ID3

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#### Childhood Bone Marrow And Artificial Neural Network

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**Abstract:** Childhood leukemia, the most common type of cancer in children and teens, is a cancer of the white blood cells. Abnormal white blood cells form in the bone marrow. They quickly travel through the bloodstream and crowd out healthy cells. This raises the body's chances of infection and other problems. One of the Machine Learning Algorithm Artificial Neural Network is used to find the leukemia, An artificial neural network is an interconnected group of nodes, akin to the vast network of neurons in a brain. For data regression and prediction, Visual Gene Developer's NeuralNet class is used

Keywords: Childhood leukemia, Machine Learning, artificial neural network, NeuralNet White blood cells.

#### I. Introduction

The bone marrow is a soft, spongy tissue found inside the bones. The bone marrow in the hips, breast bone, spine, ribs, and skull contains cells that make the body's blood cells. The bone marrow is responsible for the development and storage of most of the body's blood cells. The three main types of blood cells made in the bone marrow include. Red blood cells (erythrocytes). These cells carry oxygen to the tissues in the body. White blood cells (leukocytes). These cells help fight infections and aid in the immune system. Platelets. These help with blood clotting. Each of these cells carries a life-maintaining function. The bone marrow is a vital part of the human body. Childhood leukemia, the most common type of cancer in children and teens, is a cancer of the white blood cells. Abnormal white blood cells form in the bone marrow. They quickly travel through the bloodstream and crowd out healthy cells. This raises the body's chances of infection and other problems.

#### II. Artificial Neural Networks

ANNs are composed of multiple nodes, which imitate biological neurons of human brain. The neurons are connected by links and they interact with each other. The nodes can take input data and perform simple operations on the data. The result of these operations is passed to other neurons. The output at each node is called its activation or node value .Each link is associated with weight. ANNs are capable of learning, which takes place by altering weight values.

#### 3.1 Machine Learning in ANNs

ANNs are capable of learning and they need to be trained. There are several learning strategies:

- Supervised Learning It involves a teacher that is scholar than the ANN itself. For example, the teacher feeds some example data about which the teacher already knows the answers. For example, pattern recognizing. The ANN comes up with guesses while recognizing. Then the teacher provides the ANN with the answers. The network then compares it guesses with the teacher's "correct" answers and makes adjustments according to errors.
- Unsupervised Learning It is required when there is no example data set with known answers. For example, searching for a hidden pattern. In this case, clustering i.e. dividing a set of elements into groups according to some unknown pattern is carried out based on the existing data sets present.
- **Reinforcement Learning** This strategy built on observation. The ANN makes a decision by observing its environment. If the observation is negative, the network adjusts its weights to be able to make a different required decision the next time.

#### 3.2 Bayesian Networks

These are the graphical structures used to represent the probabilistic relationship among a set of random variables. Bayesian networks are also called **Belief Networks** or **Bayes Nets.** BNs reason about uncertain domain. There is an only constraint on the arcs in a BN that you cannot return to a node simply by following directed arcs. Hence the BNs are called Directed Acyclic Graphs (DAGs).

#### III. Indentations And Equation

#### 4.1 DIRECTED ACYCLIC GRAPH

Each node in a directed acyclic graph represents a random variable. These variable may be discrete or continuous valued. These variables may correspond to the actual attribute given in the data. In this paper, a new image representation algorithm, "Projected Principal-Edge Distribution" (PPED), was used . The algorithm was developed for use in the image recognition system hardware based on the neural associative processors, and the computing speed can be greatly improved. The PPED algorithm was a type of feature recognition algorithm that is sensitive to edge shape, and the algorithm was simple to actualize. The PPED features were extracted from the WBC images, which were segmented by the method mentioned above. The resolution of the images of WBCs captured by the CMOS shadow imaging system was low. The PPED algorithm was demonstrated to be a useful method to sort the three subtypes of WBCs in this system. To verify the algorithm, the  $20\times$ ,  $10\times$ , and  $4\times$  objective lenses of the microscope were used as a reference system to compare the proposed shadow imaging instrument. Therefore, the PPED algorithm could be used to extract the image feature vector, and then it could be used for WBCs classification.

#### 4.2 WBC classification algorithm

A method to classify WBCs compared the distance between two feature vectors of the cells. The smaller the distance between the two feature vectors, the more likely the two cells were the same type. It was calculated using the Euclidean distance between two vectors.

Euclidean distance: 
$$d(\mathbf{x}, \mathbf{y}) = \left[\sum_{i=1}^{n} (x_i - y_i)^2\right]^{1/2}$$

In this paper, the classification method that measured the distance between the PPED feature vector of each cell and the three subtypes of standard PPED feature vectors was used, and the standard PPED vector. The high-resolution images of the WBCs captured by the  $10\times$  objective lens were used to recognize three subtypes of leukocytes manually. The low-resolution images of WBCs captured by the  $4\times$  objective lens were used to extract the standard PPED vector. The low-resolution images of the WBCs could not be used to easily recognize the subtypes of WBCs manually, but the high-resolution images of the same cell could. Finally, the standard PPED vectors of the three subtypes were calculated by the PPED method mentioned in a previous paper, and the standard PPED feature.

The images of the WBCs captured by the CMOS shadow imaging system had low resolution, and other features should be added to improve the accuracy of the WBC classification. The size of the WBCs was a useful and important feature, which was close to the edge of the image and reduced the false recognition rate, providing a more accurate classification of the WBCs. The Euclidean distance of each cell to the standard vector

was shown as 
$$D_p(i) = \left[\sum_{m=0}^{63} (P_d(j) - V_m(j))^2\right]^{1/2} i \in \{Neu, Mon, Lym\}.$$

Here,  $D_p$  was the Euclidean distance of the Ith cell PPED vector from the standard vector. The subscript m indicates the three subtypes of WBCs, neutrophil (Neu), monocyte (Mon) and lymphocyte (Lym). However, the low-resolution images lead to inaccurate classification of the WBCs. The missing details of the cell image, caused by low resolution, made the feature extraction of different types of cells difficult. Therefore, we propose a novel algorithm that normalizes the distance between PPED and the standard vector center and then converts the value to

$$D_m(i) = \frac{D_p(i)}{\operatorname{argmax}(D_p(i))} \ i \in \{Neu, Mon, Lym\},$$

$$P_m(i) = 1 - D_m(i) \ i \in \{Neu, Mon, Lym\}.$$

Here,  $D_m(i)$  was the normalized Euclidean distance and the  $P_m(i)$  was the probability of the three subtypes of WBCs. The largest, the median and the smallest sized WBCs were the neutrophil, monocyte and lymphocyte, respectively. By the size of the cell, it was preliminary to determine which types the cell belongs to, the method

t = 
$$\begin{cases} Lym, \ 5\mu m < d < 10\mu m \\ Neu, 10\mu m < d < 14\mu m \\ Mon, 14\mu m < d < 25\mu m \end{cases}$$

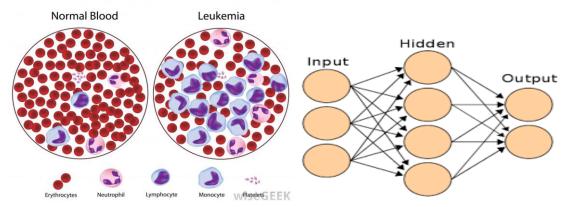
Here, t was the types of the WBCs and d was the diameter of the WBCs. Then, the probability Ps(i)

 $P_s(i) = \begin{cases} 1, & i = t \\ 0, & i \neq t \end{cases} i, t \in \{Neu, Mon, Lym\}.$ (13)

distinguished by the size of WBCs was shown as

This probability  $P_m(i)$  accounts for 90% of the weight of the judgment, and the probability  $P_s(i)$  accounts for 10%. The function of different types of WBC classifications was shown as  $T_m(i) = 0.9 \times P_m(i) + 0.1 \times P_s(i)$   $i \in \{Neu, Mon, Lym\}_{(14)}$  where  $T_m(i)$  was the probability of the three subtypes of WBCs. For every sample, three  $T_m(i)$  values could be calculated, which show neutrophils, monocytes and lymphocytes. Which  $T_m(i)$  value was the largest, which corresponded to the type of cells.

#### IV. Figures And Tables



#### V. Conclusion

In summary, a WBC classification method based on shadow imaging of a CMOS sensor was proposed. The system contained inexpensive parts, such as the CMOS sensor, a white LED and an aluminum alloy shell, and the total cost of this system was below \$100. A white LED was used in the proposed system, which means that the LED could be replaced by sunlight. The system power consumption would be significantly reduced and more conducive to POCT with sunlight. Due to the algorithms proposed in this paper, the system was not only cheaper but also automated. For the blood tests from whole blood samples from six outpatients (proportion of WBCs), the result obtained was a mean correlation index of 0.96. The mean errors of percentage of neutrophils (3.45%), monocytes (6.04%) and lymphocytes (6.7%) were lower than the method proposed by Mohendra Roy . Although the performance was still less than traditional methods, it was sufficient to demonstrate that the proposed instrument and classification method were effective. The instrument was  $10 \times 10 \times 10$  cm in volume, but the aluminum alloy shell could be further reduced to chip size. The widespread application of the instruments would provide a more convenient method of routine blood examination.

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Human brains are capable to produce novel solutions to the dynamically emerging security problems. But they are restricted with process automation, correctness, remembrance, knowledge representations, processing parallel task, increasing execution speed, mobile control and dealing with huge amount of data when compared to intelligent computational tools. In this proposed effort, various design aspects are framed that serves as a boundary to build an intelligent home security model with alarm signal to denote the unauthorized entry of an object. This model uses the advantage of artificial intelligent technique to attain high level home security system incorporated with traditional monitoring system.

Keywords- Artificial Intelligence, Object Recognition, Security, Authorization

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Citation

Abstract

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Paper Type :: Research Paper

Title :: Autism Spectrum Disorder Detection in Children Using Adaptive Kalman Filtering Approach

Country :: India

Authors :: D.Umanandhini || Dr.G.Kalpana

Page No. :: 40-47

Keywords- kalman filter, autism spectrum disorder, ASD, sensitivity, specificity, fall out, miss rate, accuracy.

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Citation

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Paper Type :: Research Paper

Title :: A Survey on Techniques used for the Therapy of the Autistic Children

Country :: India

Authors :: R.Subalakshmi

Page No. :: 48-50

ISSN (e): 2250-3021, ISSN (p): 2278-8719

PP 40-47

#### Autism Spectrum Disorder Detection in Children Using Adaptive Kalman Filtering Approach

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Abstract: This research work aims to design and develop an adaptive kalman filter in physiological detection of anxiety related arousal in children those who are having autism spectrum disorder (ASD). Unlike classical adaptive Kalman filters, which have been designed for state estimation in case of uncertainties about noise covariances, the adaptive Kalman filter proposed in this paper is for the purpose of ASD classification, through joint state-parameter estimation. The stability and minimum variance properties of the adaptive Kalman filter have been implemented. In this part of research work, a stochastic framework, with rigorously established statistical and stability properties. In particular, it is shown that the proposed adaptive Kalman filter provides a recursive estimation of actuator fault parameters equivalent to the recursive least squares estimator formulated for a fictive regression problem. From the results it is proved that the proposed adaptive kalman filter performs better in terms of sensitivity, specificity, fallout rate, miss rate, accuracy and time.

**Keywords:** kalman filter, autism spectrum disorder, ASD, sensitivity, specificity, fall out, miss rate, accuracy.

#### I. INTRODUCTION

Anxiety is a condition of worried expectation and is related with increased pressure, excitement, and negative valence. Programmed discovery of anxiety has gotten consideration in a few fields including human-PC cooperation, savvy transport frameworks, security and access control, workload evaluation, and wellbeing observing. All the more as of late, programmed discovery of anxiety has been proposed as a way to give a target measure that can supplement clinical anxiety treatment programs. Truth be told, administration of physiological side effects is an indispensable piece of existing medicines. These projects, be that as it may, depend on the person's capacity to self-reflect and self-perceive physiological indications of anxiety and are not appropriate to the necessities of clinical populaces who have scholarly handicap or potentially deficiencies in correspondence, thoughtfulness, and passionate mindfulness. A case of such populace is people with autism spectrum disorder (ASD). ASD is a pervasive and complex neuro-formative disorder portrayed by subjective weaknesses in social correspondence, and by the nearness of prohibitive and dreary practices as well as premiums. Anxiety is a common, diligent, and impairing co-bleakness in ASD. Notwithstanding its significant negative effect on physical and psychological wellness, anxiety communicates with the center deficiencies of ASD to compound symptomatology and increment practical hindrance. Notwithstanding the direness to treat co-sullen anxiety in ASD, there is constrained proof supporting treatment programs in higher-working people, and no confirmation for the individuals who are bring down working. Key ASD-related hindrances to anxiety treatment are weaknesses in psychological capacity, correspondence, passionate mindfulness, and reflection.

#### II. LITERATURE REVIEW

The mix of machine-learning strategies with mind imaging information has took into consideration the classification of mental states related with the portrayal of semantic classifications (Haxby, 2001; O'Toole et al., 2005), of the implications of things (Buchweitz et al., 2012; Mitchell et al., 2008; Shinkareva et al., 2011), of feelings (Kassam et al., 2013), and of learning (Bauer and Just, 2015). On account of mental illness states, thinks about have recognized patients of cerebrum enactment related with schizophrenia (Yang et al., 2010), with a mental imbalance (Just et al., 2014), and with sorrow (Craddock et al., 2009). Concentrates that connected ML calculations to ASD mind imaging information have characterized people as extremely introverted or control from their fMRI cerebrum actuation with up to 97% precision inside single destinations. They additionally recognized an example of cerebrum enactment related with a mental factor (self-portrayal). The example was available in control patients and almost truant for extremely introverted members (Just et al., 2014). In another investigation of classification of ASD members (Plitt et al., 2015), the creators acquired a 76.67% classification exactness in a populace test of 178 ASD and IQmatched ordinarily creating members. A proviso of concentrates that connected supervised ML to cerebrum imaging information is their generally.

International Conference on Computing Intelligence and Data Science (ICCIDS 2018) 40 | Page Department of Computer Studies Sankara College of Science and Commerce Saravanampatty, Coimbatore

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#### An Efficient First Order Logical Casual Decision Tree in High Dimensional Dataset

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Available online at: www.ijcseonline.org

Received: 31/Jan//2018, Revised: 08/Feb2018, Accepted: 20/Feb/2018, Published: 28/Feb/2018

Abstract: Uncovering causal interactions in data is a most important objective of data analytics. Causal relationships are usually exposed with intended research, e.g. randomised controlled examinations, which however are costly or insufficient to be performed in several cases. In this research paper aims to present a new Casual Decision tree structure of first-order logical casual decision tree called FOL-CDT structure. The proposed method follows a well-recognized pruning approach in causal deduction framework and makes use of a standard arithmetical test to create the causal relationship connecting a analyst variable and the result variable. At the similar instance, by taking the advantages of standard decision trees, a FOL-CDT presents a compact graphical illustration of the causal relationships with pruning method, and building of a FOL-CDT is quick as a effect of the divide and conquer strategy in use, making FOL-CDTs realistic for representing and resulting causal signals in large data sets.

**Keywords:** Data Mining, First order Logical, Decision Tree, Pruning, Classification.

#### I. INTRODUCTION

Data mining is the process of finding previously un known patterns and trends in databases and using that information to build predictive models. Data mining combines statistical analysis, machine learning and database technology to extract hidden patterns and relationships from large databases.

Detecting causal relationships in data is an important data analytics task as causal relationships [1] can provide better insights into data, as well as actionable knowledge for correct decision making and timely intervening in processes at risk.

Causal relationships can provide better insights into data, as well as actionable knowledge for correct decision making and timely intervening in processes at risk, therefore detecting causal relationships in data is an important data analytics task. Randomized controlled trials (RCTs) are considered as the gold standard for causal inference in many areas such as medicine and social science [2]. However, it is often impossible to conduct RCTs due to cost or ethical concerns. Causal relationships can also be found by observational studies, such as cohort studies and case control studies [3]. An observational study takes a causal hypothesis and tests it using samples selected from historical data or collected passively over the period of time when observing the subjects of interest. Therefore observational studies need domain

experts' knowledge and interactions in data selection or collection, and the process is normally time consuming.

Currently there is a lack of scalable and automated methods for causal relationship exploration in data. These methods should be able to find causal signals in data without requiring domain knowledge or any hypothesis established beforehand. The methods must also be efficient to deal with the increasing amount of big data.

Classification methods are fast and have the potential to become practical substitutes for finding causal signals in data since the discovery of causal relationships [4] is a type of supervised learning when the target or outcome variable is fixed. Decision trees [5] are a good example of classification methods, and they have been widely used in many areas, including social and medical data analyses.

However, classification methods are not designed with causal discovery in mind and a classification method may find false causal signals in data and miss true causal signals [6]. For example, Figure 1 shows a decision tree built from a hypothesized data set of the recovery of a disease. Based on the decision tree, we may conclude that the use of Tinder (a match making mobile app) helps cure the disease. However, it is misleading since the majority of people using Tinder are young whereas most people not using Tinder are old [7]. Young people will recover from the disease anyway and old people have a lower chance of recovery. This misleading

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15. A Comparative Study of Wireless Networks and Wireless Sensor Networks

P. Monika and Dr. G. Kalpana



ISSN No. (Print): 0975-1718 ISSN No. (Online): 2249-3247

#### A Comparative Study of Wireless Networks and Wireless Sensor Networks

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ABSTRACT: Wireless networking is used for providing the wireless connection between different network nodes. Wireless Sensor Networks are similar to wireless ad hoc networks where it can be used for the transmission of sensor data between the nodes. Sensing is the type of a technique helpful for gathering the information from the devices or processes. This paper mainly focuses on the characteristics of wireless and wireless sensor networks and their differences between. Wireless network and wireless sensor network faces some of the issues when the data transmission take place in the wireless medium.

Keywords: Wireless networks. Wireless sensor networks. Ad hoc networks. Multi-hop transmission. bandwidth, wireless medium,

#### I. INTRODUCTION

Wireless networking is used for providing the wireless connection between different network nodes. It can be used in many places like homes, offices, etc and it can be used for avoiding the process of investing more on cabling infrastructure. Some of the examples of wireless networks are cell phone network, wireless local area network, satellite communication, etc [1], IEEE 802.11 introduced the Wi-Fi wireless technology for providing the internet connections for the users at any place. Wireless Local Area Network (WLAN) devices are used in many organizations with the stable network connection when the devices move from one place to another within the office.

Wireless Sensor Networks (WSN) are similar to wireless ad hoc networks where it can be used for the transmission of sensor data between the nodes. Wireless Sensor Networks are defined as the infrastructure-less wireless network which is used for monitoring the physical and environmental conditions like temperature, pressure, vibration, etc.WSN havemany functionalities like collecting, processing and transmitting those data to other devices. Zigbee is a type of WSN technology used for the transmission of data from one device to another through radio waves with low energy consumption [2].

#### II. WIRELESS NETWORKS

Wireless networking is used for providing the wireless connection between different network nodes [1]. In the wireless network technology, wireless links are required for transmitting the packets. The messages can be sent from the sender device via the wireless medium to the receiver within the transmission range of the sender. Wireless networks can be classified into two different types of network namely Infrastructure network and Ad Hoc networks.



Fig. 1. Wireless Networking Design.

In the infrastructure network, the access points (AP) are required for accessing the network. It can be denoted as the fixed technology in which the devices can connect to other device via the fixed device named as base station or access point [3]. Wireless network design with access points is represented in Fig 1. Ad Hoc Networks does not require the access points for the communication purpose. The nodes that are in the ad hoc network acts as the host or router. The devices can directly connect to other devices that are within the transmission range. When the sender tries to send message to the device that is not in coverage region then the message will be sent to the device within the sender transmission range and then sent to the exact receiver [4].

A. Characteristics of Wireless Networks Some of the characteristics of wireless networks are discussed below:

Autonomous Behaviour: In the ad hoc networks, the devices can acts as a host or router, so that it has the capacity to switch the functionalities and work accordingly.

Multi-hop transmission: When the sender sends the message to the receiver out of the transmission range. then the message will be sent via the intermediate

Symmetric Environment: Since the devices in the wireless acts as a host or router, then all the devices have similar features and responsibilities, so that the devices are symmetric in nature.

Light weight features: The ad-hoc network devices have low CPU processing capability, less memory and power storage [4].

#### III. WIRELESS SENSOR NETWORKS

Wireless Sensor Networks (WSN) are similar to wireless ad hoc networks where it can be used for the transmission of sensor data between the nodes [2]. Sensing is the type of a technique helpful for gathering the information from the devices or processes. The main functionality of WSN is to monitor the environment and provide the report to the base station for further processing. WSN devices communicate with other devices via the gateway [6]. The gateway acts as a bridge between the WSN and other network. Wireless sensor network design is represented in Fig 2.

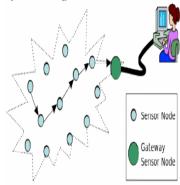


Fig. 2. Wireless Sensor Network.

The base station is a device that is used for controlling the activities of all other devices and take decisions according to the conditions [7]. Base stations play the vital role in wireless sensor network because the sensor nodes can cause many issues to the devices so that the base stations are used for collecting the data and take frequent backups of data. Those backup data can be used by the devices when

the master node fails [8]. Wireless sensor nodes are provided with many different sensors and those sensors can communicate between the devices using the radio signals. A wireless sensor node is constructed using the computing devices, radio transceivers and sensing devices. The sensor nodes are equipped with the built-in processor and it is used for processing the raw data before the transmission stage [9].

#### A. Characteristics of Wireless Sensor Networks

Characteristics of wireless sensor networks are explained below:

Scalability: Any number of nodes or devices can be attached to the infrastructure.

Responsiveness: The devices in the network are able to adapt to the changes that are made in future.

Reliability: The basic need of every network is to be reliable. The reliability is required in the data transmission of network structure.

Power efficiency: The devices in WSN have the ability to change its data path and handle all the nodes. It is designed in a way to work in power source other than direct power [10].

#### IV. WIRELESS NETWORKS Vs WIRELESS SENSOR NETWORKS

Features	Wireless	Wireless Sensor	
	Networks	Networks	
Number of nodes	Limited	Unlimited	
Sensing	It does not posses.	It posses.	
Devices	Devices like	Very small	
	laptops, PDA's are used.	devices are used.	
Power	Limited	Larger capacity	
	capacity		
Cost	Expensive	Inexpensive.	
Transmission	Ranges from	Ranges from 3 -	
range	10 - 500 meters.	30 meters.	
Node density	Lower	Higher	
Communication	Data moves	Data moves	
	from one	from many	
	device to many	devices to the	
	devices.	gateway.	

#### V. CHALLENGES IN WIRELESS NETWORKS

Some of the key challenges of wireless networks are:

#### A. Signal fading

In the wireless network infrastructure the signals are transmitted over the wireless transmission medium, so that the signals can travel in different path due to reflection or scattering caused by other objects. When the signals are transmitted in different directions it takes different time duration to reach the destination. Once the receiver get the signals it may has more

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Title :: A literature survey on missing value imputation methods in data mining

Country :: India

Authors :: Mrs. J. Sujitha || Mrs. S.R. Lavanya

Page No. :: 15-19

Keywords: Missing value, Imputation methods, Mean, K-nearest neighbor, Naive Bayes, Chain of evidence.

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Citation

Abstract

Reference

Full PDF

Paper Type :: Research Paper

Title :: Product Review Sentiment Analysis Using Collaborative Filtering Process

Country :: India

Authors :: N.Krishnan || S.Sathyapriya || D.Anitha

Page No. :: 20-25

User based filtering of review using collaborative filtering predicts our users interest in our data set using the information provided by the product of r profiles and a enhanced algorithm is used to unify r-base d and item based filtering approach to fulfill the limitations of specific product m. We showed that use r-based and item-based approaches are only two special cases in our probabilistic fusion framework. In existing model, we realized that a major source of error while making predictions is the fact that for some movies the crew members are not there in the training set. Although it is difficult to predict the ratings for the movies with a totally unknown cast, we have employed certain heuristics to minimize the error. Also, there can possibly be

other factors like release date, location, plot, etc.....

Keywords: Sentiment analysis, collaborative filtering, Ratings

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PP 15-19

## A literature survey on missing value imputation methods in data mining

#### Mrs. J. Sujitha, Mrs. S.R. Lavanya

'Research Scholar, Department of Computer Science, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil Nadu, India'

'Assistant Professor, Department of Computer Science, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil Nadu, India',

Abstract: Preprocessing is one decisive stage in data mining. The most important step in pre-processing is handling missing data. Managing missing data has different strategies such as deletion of incomplete data and imputation (filling) of missing values through depends on statistical and machine learning (ML) procedures. Most of the data mining algorithm cannot work with an incomplete dataset. In such a case, missing values create a problem with real data in the world. Missing value Imputation is a challengeable task in many sectors. Some of them perform their handling imputations in different ways. Missing value imputation determines the quality of datasets. A high accuracy data analysis is essential because it deals with real-world decision making. It performs different kinds of data mining operations. This survey analyses the various missing value imputation methods and its performances. It consists of imputation methods like single and multiple imputations. The imputation algorithms like mean, K-nearest neighbor, Naive Bayes classification, MIAEC are discussed in this survey.

Keywords: Missing value, Imputation methods, Mean, K-nearest neighbor, Naive Bayes, Chain of evidence.

#### I. INTRODUCTION

Preprocessing is one of the main works in data mining projects. Missing value imputation is an important task in preprocessing. The main problem of a dataset with some missing values leads to an inappropriate result. To overcome the problem, it is necessary to impute the missing values in the dataset. Generally, the problem of missing data emerges in many areas of research such as statistical, environmental, medical, industrial fields, etc. The empty or unanswered values in datasets are called missing value (data). Little and Rubin describe a list of missing mechanisms. The missing data mechanisms classify into two types such as ignorable and non–ignorable. Non-ignorable is where the probability of missing data depends on the value of observation.

Ignorable missing data is where the probability of missing data does not depend on the value of observation [2]. The missing data mechanisms explain the connection between missing value and its variables in the data matrix [2]. Schafer explains given an experimental variable L as  $L_{obs}$  and a missing variable L as  $L_{mis}$ , it can be said that  $L = [(L_{obs}, L_{mis})][3]$ . The following diagram shows the missing data types,

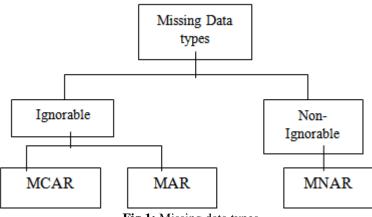


Fig 1: Missing data types

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#### An Efficient Sentimental Analysis Using Dynamic Cluster Based Naive Bayesian Classification

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**Abstract:**Social media is one of the most important forums to convey opinions. Sentiment analysis is the procedure by which information is obtained from the opinions, assessment, and feelings of individuals in regards to entities, events and their features. Analyzing sentimental words is to examine and cluster the user created information like reviews, blogs, comments, articles etc. This research work presents an optimal Dynamic Cluster based Naive Bayesian (DCNB) classification model to deal with the troubles in one go under a combined framework. DCNB represents each review document in the form of opinion pairs, and can concurrently model aspect terms and corresponding opinion words of the review for hidden aspect and sentiment detection. Meanwhile, the proposed system processed meaningful tweets into three different clusters positive, neutral and negative using unsupervised machine learning technique such as clustering.

KEYWORDS: Social media, Twitter, Sentiment Analysis, Bayesian Classification.

#### I. INTRODUCTION

Microblog services like twitter invite more persons to post their emotions and sentiments on different topics. The posting of sentiment contents can not only give an emotional snapshot and also have potential commercial [1], financial [3] and sociological values [4]. But facing a large number of sentiment tweets is hard for individuals to get anoverall impression. As a result, there are many sentiment classification works showing interests in tweets [5].

Twitter allows different types of topics to discuss. Sentiment classifiers always devote themselves to a particular domain or topic. Specifically, sentiment data from one topic performs ineffectively on test data from another. Because words and languages construct used for expressing sentiments can be unique on various themes. For example, "Samsung is good" it could be confident in a product survey but negative in a movie survey. In social media, a Twitter user may have different opinions on different topics [9]. Hence, thetopic adjustment is required for sentiment classification of tweets on developing and unpredictable topics.

Generally, sentiments and opinions can be evaluated at various levels of granularity. The assignment of evaluating overall sentiments of texts is usually defined as aclassification problem, e.g., classifying a review document into positive or negative sentiment. Then, a variety of machine learning methods trained using different types of indicators (features) have been employed for overall sentiment analysis [2], [6], [7] and [8].

In recent years sentiment analysis has more interest in academic and industry because of its potential applications. In figure 1 shows the structure of sentiment classification framework. One of the most promising applications is ananalysis of opinions in social networks. Lots of individuals write their feelings in forums, microblogging or review websites.

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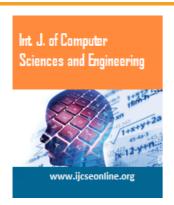
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#### A Brief Survey Onboolean Expressions in Fault Based Techniques

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Abstract- Boolean expressions are major focus of specifications and they are very much prone to introduction of faults, this survey presents various fault based testing techniques. It recognizes that the methods differ in their fault detection capabilities and creation of test suite. The various techniques like Dealing with Constraints in Boolean Expression, Minimal Fault Detecting Test Suites, Reducing logic test set size, A logic mutation approach, SAT and SMT Solvers for Test Generation and Boolean Expressions by Cell Covering has been considered. This survey describes the fundamental algorithms and fault categories used by these strategies for evaluating their performance. Finally, it contains short summaries of the papers that use Boolean expressions used to specify the requirements for detecting faults. These techniques have been empirically evaluated by various researchers on a simplified safety related real time conditionals system.

Keywords-Boolean Expression, BOR, Test suite, MBT.

#### I. Introduction

Software dimension and complexity is increasing that has made software testing a challenging exercise. The objective of testing is to determine error, which requires dynamic execution of test cases that consumes significant amount of time so it is important to investigate ways of increasing the efficiency and effectiveness of test cases.

Test case designing is one of the important factors that influence cost and coverage of testing. The cost depends on size of test suit and coverage on fault detection capabilities. Much research has been aimed at achieving high efficacy and reduced cost of testing by selecting appropriate test cases. Boolean expressions can be used to specify the requirements of safety-critical software like avionics, medical and other control software. These expressions can describe certain conditions of specifications, to model predicates and logical expressions. Test cases are generated on Boolean expressions which are capable of revealing faults in programs that are developed based on such specifications.

Many testing techniques have been proposed by various researchers to select test cases based on Boolean specifications; moreover test case generated by these methodologies can guarantee to detect certain type of faults.

Boolean expressions, i.e. terms that evaluate to true or false, are frequently found in logical predicates inside programs to model complex conditions under which some code is executed. They are commonly used as guards for conditional instructions and cycles. Also in model based testing, Boolean conditions play a very important role because they can be found as guards of transitions and actions. They constitute a critical part also because many typical programmer and designer errors result in faults in Boolean expressions.

In Boolean expression, Boolean Operator testing Strategy (BOR) is a technique suitable for test generation for singular Boolean expression. It guarantees the detection of Boolean operator faults, including incorrect AND/OR operators and missing or extra Not operators.[1-3] showed that a BOR test set for a Boolean expression is effective in detecting various types of Boolean expression faults, including Boolean operator faults, incorrect Boolean variables and parentheses and their combinations.

Infeasible test requirements are demands for tests that simply do not exist. They are an unfortunate fact of life in software testing. They confound test engineers, who must decide if a given test requirement really is infeasible or if a more diligent search for a suitable input is in order. They also confound attempts by researchers to relate coverage criteria. By definition, an infeasible test requirement for a given criterion does not result in a test. If the corresponding test requirement for a 'weaker' criterion happens to be feasible, the infeasibility can cause an apparently 'stronger' criterion to fail to subsume the 'weaker' one. Many well-known cases of this phenomenon pervade the testing literature.

This paper explores strategies for Test Case Generation for Boolean Expressions by Cell Covering models. Boolean expressions are found in logical predicates inside programs and specifications which model complex conditions. This paper, various approaches has been surveyed in which test cases are generated from Boolean expressions that target specific fault classes and test suites is reduced with respect to exhaustive testing. In this article, it is assumed that readers are familiar with notations and terminologies of Boolean expressions.



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## Analysis of Emergency Communication Networks for Disaster Management

#### **Abstract**

When destructive natural disasters occur, emergency rescue operations become very crucial for saving innumerable lives. Several humans, who are entrapped in the damaged regions under crumbled buildings or landslides may get bigger chances for survival in case their rescue is done within "Golden 72 Hours". People displaced from their homes that are crushed in highways or dome shelters have to be in touch with one another for different reasons. But, communication systems become generally out of order owing to multiple causes. The loss in the communication systems makes the rescue operation very hard. Several people die before there is a chance for their rescue. This research work targets at discussing the different disaster management strategies, which can be utilized by the primary responders and the public to reduce the effects of a catastrophe. The different Emergency communication systems for disaster management that are studied in this research work are WiFi, Peer to Peer (P2P), Cellular networks and satellite. Wireless sensor network (WSN) and Mobile Ad Hoc Network (MANET) are implemented in the disaster sites for performing local communication and information gathering. In order to have communication with the remote disaster-free regions, satellite gateway is utilized for the local networks to interlink with the satellite mobile network.

Paper Details

PaperID: 181021

Author's Name: Dr.D. Anitha

Volume: Volume 14

# Analysis of Emergency Communication Networks for Disaster Management

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Assistant Professor, Department of Computer Science, Sri Ramakrishna College of Arts and Science for Women.

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#### Abstract

When destructive natural disasters occur, emergency rescue operations become very crucial for saving innumerable lives. Several humans, who are entrapped in the damaged regions under crumbled buildings or landslides may get bigger chances for survival in case their rescue is done within "Golden 72 Hours". People displaced from their homes that are crushed in highways or dome shelters have to be in touch with one another for different reasons. But, communication systems become generally out of order owing to multiple causes. The loss in the communication systems makes the rescue operation very hard. Several people die before there is a chance for their rescue. This research work targets at discussing the different disaster management strategies, which can be utilized by the primary responders and the public to reduce the effects of a catastrophe. The different Emergency communication systems for disaster management that are studied in this research work are WiFi, Peer to Peer (P2P), Cellular networks and satellite. Wireless sensor network (WSN) and Mobile Ad Hoc Network (MANET) are implemented in the disaster sites for performing local communication and information gathering. In order to have communication with the remote disaster-free regions, satellite gateway is utilized for the local networks to interlink with the satellite mobile network.

*Keywords:* Wireless Sensor Network (WSN), Mobile Ad Hoc Network (MANET), WiFi, Peer to Peer (P2P), Cellular Networks, Satellite, Emergency Communication Systems.

#### 1. Introduction

Nearly each year, the universe is includibly affected by several disastrous natural calamities, including earthquake, hurricane, typhoon, tsunami, etc. When struck by a dangerous natural calamity, emergency rescue missions becomes very crucial in saving innumerable lives. Rescue teams present in every stricken area have expert squads, army, police, fire fighters, and hundreds and thousands of unorganized volunteers. Efficient means of communication are required for the coordination of their endeavours. Victims also have to be in communication with one another for different causes inclusive of allocating the rescue and relief teams along with reuniting the families. Catastrophes are frequently accompanied with the damage done to the local telecommunication infrastructure, resulting in critical challenges posed for the rescue operations to continue. Catastrophes may also occur where such kind of infrastructures were not present earlier. The loss in communication systems and also the information networks make the rescue operation to be hugely cumbersome. Therefore, rapid establishment of a makeshift communication network for supporting management of emergency is one among the most pressing tasks in hand during a catastrophic rescue operation. Practical technology choices are very less in catastrophic situations such as this. Also, no organization exists globally and no commonly accepted means of structuring a communication infrastructure reestablishment after disaster condition also exists.

The emergency condition can be dealt with efficiency by using different types of technologies. Disaster management systems can be utilized for helping the disaster managers and volunteers in the public for performing hazard identification, prediction and for implementing risk reducing evacuation plans. Technology supported disaster management techniques provide several distinct benefits compared to the techniques of disaster management systems that are deficit of technological assistance [1]. User training is very much necessary for concepts involving disaster management for displaying novel

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# THYROID ULTRASOUND IMAGE CLASSIFICATION USING IMPROVED LBP WITH HYBRID SUPPORT VECTOR MACHINE

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#### ABSTRACT

Medical imaging is one among the significant fields in image processing, since manual diagnosis is more cumbersome and consumes lot of time in comparison with computerized techniques. Due to technological progress, a variety of methods have evolved for the detection of several diseases affecting the human body. Different Imaging technologies such as MRI (Magnetic Resonance Imaging), X-rays, Computed Tomography, Optical Coherence Tomography and Ultrasound (US) exists. Thyroid nodules are anomalous lumps originating inside the thyroid gland that may indicate multiple ailments. In the system available, the techniques face challenges with the classification and segmentation accuracy and therefore the overall effectiveness is minimized considerably. In order to get over the above stated problems, in the newly introduced system, improved Local Binary Pattern (ILBP) with Support Vector

Machine (SVM) is proposed. The preprocessing is carried out employing adaptive weighted median filter. It improves the blurred image and eliminates the noise with efficiency. In order to enhance the accuracy of segmentation, Localized Region based Active Contour is suggested. For the extraction of the essential features, improved Local Binary Pattern (LBP) is presented in US images. It is utilized or extracting the significant feature information on the basis of the features that are efficiently extracted. The classification accuracy is measured with the help of the hybrid SVM algorithm. The result of the experimentation shows that newly introduced ILBP-SVM technique yields much greater accuracy, precision, recall and f-measure values for the thyroid image dataset given.

**Key words:** Thyroid image, feature extraction, ILBP, Hybrid SVM, classification

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**Keywords** – Wireless sensor networks, Certificate less public key cryptography, Key management schema

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**Abstract** 

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Paper Type : Research Paper

Title : Personalized Travel Sequence Recommendation on Multi

Source Big Social Media

Country : India

Authors : N.Krishnan || S.Sathyapriya || Dr.D.Anitha

**Abstract:** Big Data Increasingly Benefit Both Research And Industrial Area Such As Health Care, Finance service and commercial recommendation. This paper presents a personalized travel sequence recommendation from both travelogues and community-contributed photos and the heterogeneous metadata (e.g., tags, geo-location, and date taken) associated with these photos. Unlike most existing travel recommendation approaches, user approach is not only personalized to user's travel interest but also able to recommend a travel sequence rather than individual Points of Interest (POIs). Topical package space including representative tags, the distributions of cost, visiting time and visiting season of each topic, is mined to bridge the vocabulary.............

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## Personalized Travel Sequence Recommendation on Multi Source Big Social Media

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Abstract: Big Data Increasingly Benefit Both Research And Industrial Area Such As Health Care, Finance service and commercial recommendation. This paper presents a personalized travel sequence recommendation from both travelogues and community-contributed photos and the heterogeneous metadata (e.g., tags, geo-location, and date taken) associated with these photos. Unlike most existing travel recommendation approaches, user approach is not only personalized to user's travel interest but also able to recommend a travel sequence rather than individual Points of Interest (POIs). Topical package space including representative tags, the distributions of cost, visiting time and visiting season of each topic, is mined to bridge the vocabulary gap between user travel preference and travel routes. User take advantage of the complementary of two kinds of social media: travelogue and communitycontributed photos. We map both user's and routes' textual descriptions to the topical package space to get user topical package model and route topical package model (i.e., topical interest, cost, time and season). To recommend personalized POI sequence, first, famous routes are ranked according to the similarity between user package and route package. Then top ranked routes are further optimized by social similar users' travel records. Representative images with viewpoint and seasonal diversity of POIs are shown to offer a more comprehensive impression. We evaluate our recommendation system on a collection of 7 million Flickr images uploaded by 7,387 users and 24,008 travelogues covering 864 travel POIs in 9 famous cities, and show its effectiveness. user also contribute a new dataset with more than 200K photos with heterogeneous metadata in 9 famous cities. Keywords: Travel recommendation, geo-tagged photos, social media and multimedia information retrieval.

#### I. Introduction

Automatic travel recommendation is an important problem in both research and industry. Big media especially the flourish of social media (e.g. Facebook, Flick, Twitter etc.) offers great opportunities to address many challenging problems, for instance, GPS estimation, and travel recommendation. Travelogue websites (e.g., www.igougo.com) offer rich descriptions about landmarks and traveling experience written by users. Furthermore, community-contributed photos with metadata (e.g., tags, date taken, latitude etc.) On social media record users' daily life and travel experience. These data are not only useful for reliable POIs (points of interest) travel routes but give an opportunity to recommend personalized travel POIs and routes based on user 's interest. There are two main challenges for automatic travel recommendation. First, the recommended POIs should be personalized to user interest since different users may prefer different types of POIs. Take New York City as an example. Some people may prefer cultural places like the Metropolitan Museum, while others may prefer the cityscape like the Central Park. Besides travel topical interest, other attributes including consumption capability (i.e., luxury, economy), preferred visiting season (i.e., summer, autumn) and preferred visiting time (i.e., morning, night) may also be helpful to provide personalized travel recommendation. Second, it is important to recommend a sequential travel route (i.e., a sequence of POIs) rather than individual POI. It is far more difficult and time consuming for users to plan travel sequence than individual POIs. Because the relation- ship between the locations and opening time of different POIs should be considered. For example, it may still not be a good recommendation if all the POIs recommended for one day are in four corners of the city, even though the user may be interested in all the individual POIs. Our work is a personalized travel recommendation rather than 10/06/2021 IOSR Journal

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Paper Type : Research Paper

Title Performance Improvement with Multiple Approaches to

Predict Disorders Caused by Thyroid Disease

**Country** : India

Authors : Dr.D.Anitha | Mrs.S.SathyaPriya

**Keywords**: Classification, Thyroid, Hyper Thyroid, Hypo Thyroid, Data Mining (DM), Data Preprocessing (DP)...

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# A Literature review on Emotion Recognition For Various Facial Emotional Extraction

G.Kalaivani\*<sup>1</sup>, S.Sathyapriya\*<sup>2</sup>, Dr.D.Anitha\*<sup>3</sup>

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Abstract: The face is our primary focus of attention in social life playing an important role in conveying identity and emotions. Emotion is a mental state which involves a lot of behaviors, actions, thoughts and feelings. Emotions play fundamental role during communication. Emotion recognition is the process of identifying human emotion, most typically from facial expressions. Different types of facial expressions are Joy, Sadness, Fear, Disgust, Surprise, and Anger. In this thesis, various existing facial expression recognition techniques are studied and reviewed. In this thesis, mainly focuses face detection for facial emotion recognition process. This thesis discusses Viola—Jones and Image Cropping techniques to extract and identify the mouth regions. The proposed segmentation techniques are applied and compared to found which method is suitable for mouth region splitting, and then mouth region can be extracted by contrast stretching and image segmentation techniques. After the mouth region extraction, the facial emotions are classified based on white pixel values in the extracted mouth region of face image.

*Index Keywords:* Facial Feature (mouth), Image Enhancement, Edge detect, Morphology Algorithm, Mouth area calculation, Face Emotions.

#### I. Introduction

Emotion is a mental state which involves a lot of behaviors, actions, thoughts and feelings. The book, "The Expression of the Emotions in human and Animals" was written by Charles Darwin in 1969, after recognizing the universality among emotions in different groups of people despite the cultural differences. Ekman and Friesen classified six emotional expressions to be universal: happiness, sadness, disgust, surprise and fear. Facial expressions can be considered as the most natural form of displaying human emotions and as a non-verbal communication technique. Implementation of efficient automatic facial expression recognition techniques may yield lot of improvements in the area of Human Computer Interaction.

Emotional expressions can occur with or without self-awareness. Presumably, individuals have conscious control of their emotional expressions however; they need not have conscious awareness of their emotional or affective state in order to express emotion. Over the last 200 years, researchers have proposed different and often competing models explaining emotion and emotional expression, going all the way back to Charles Darwin. The different types of expressions namely joy, sadness, surprise, anger, disgust and fear are given below:

- **Joy**-The emotion evoked by well-being, success, or good fortune or by the prospect of possessing what one desires: delight: the expression or exhibition of such emotion.
- **Sadness**-Sadness is an emotional pain associated with, or characterized by, feelings of disadvantage, loss, despair, grief, helplessness, disappointment and sorrow. An individual experiencing sadness may become quiet or lethargic, and withdraw themselves from others.
- Surprise -Surprise is defined as to cause of someone to feel in amazing feelings.
- Anger-Anger can occur when a person feels their personal boundaries are being or going to be violated.
- **Disgust-**Disgust is a feeling of dislike. Human may feel disgust from any taste, smell, sound or tough.
- **Surprise** -Surprise is defined as to cause of someone to feel in amazing feelings.

#### II. Literature Survey

The main aim of this research work is to classify the emotional expression from the mouth region of the human face. As the initial task is to extract the mouth region from the facial image, a survey on various existing research works to segment the face expression images is reviewed and discussed.

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Title: Organizations' Perspective on Success and Failure of In-House Software Development

Authors: Dr. S. N. Geethalakshmi

Keywords: Success, Failure, Software Development Process, In-house

**Abstract:** 

Project success and failure is a question of perception and that the criteria could vary from project to project. A project that has been perceived to be a failure by one stakeholder may be perceived as a success by another. Knowledge and understanding of success and failure factors, as well as how to measure them and the interactions between these factors have great importance for project management effectiveness. The success or failure of Software Project management consists of two components, namely the technical and non-technical components of software development. Non-technical related components of software development process tend to be under managed. Therefore a study was conducted in India among the industries that are into in-house software development, to investigate the influence of the non-technical components of the software development process, on success and failure of software development from the organizations' perspective (Practitioners' view). This study reveals that from organizational perspective the level of customer/user involvement, project manager/staff and software process management contribute most to project success and failure.

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**Title: Cost and Coverage based Test Case Prioritization** 

Authors: Ms. L. Shanmuga priya, Ms. A. Malini, Ms.A. Askarunisa and Dr.N. Ramraj

Keywords: Regression Testing, Code Coverage, Test Case Prioritization, Mutation Faults, Average Percentage of Fault Detection (APFD)

Abstract:

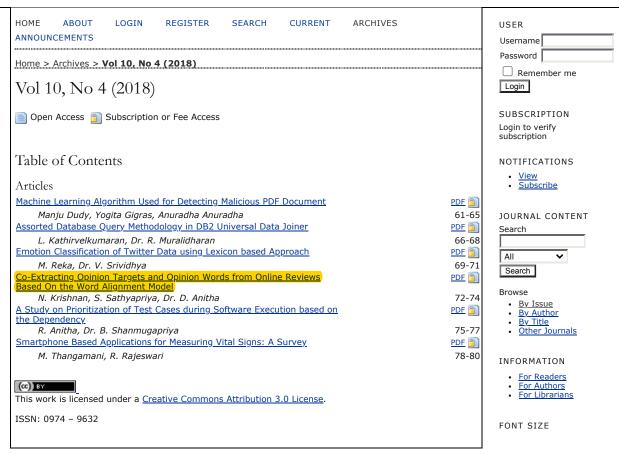
Test case prioritization techniques schedule test cases for execution in an order that attempts to maximize some objective function. A variety of objective functions are applicable; one such function involves rate of fault detection - a measure of how quickly faults are detected within the testing process. An improved rate of fault detection during regression testing can provide faster feedback on a system under regression test and let debuggers begin their work earlier than might otherwise be possible. In this paper, we describe several techniques for prioritizing test cases and report our results measuring the effectiveness of these techniques for improving rate of fault detection. We have computed two different categories of metrices viz.fault criterion based and coverage criterion based. Metrices like, the average rate of fault detection(APFD), Average rate of fault detection with cost(APFDc), come under the first category while Average Percentage of Statement Coverage (APSC), Average Percentage of Branch Coverage (APBC), Average Percentage of Loop Coverage (APLC) and Average Percentage of Condition Coverage (APCC) come under the second category. Test cases were executed using JUnit tool. Code cover tool is used to find code coverage information. Test case prioritization is performed based on coverage and cost information. The results provide insights into the tradeoffs among various techniques for test case prioritization.

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# Co-Extracting Opinion Targets and Opinion Words from Online Reviews Based On the Word Alignment Model

N. Krishnan, S. Sathyapriya and Dr. D. Anitha

Abstract--- The significant chore of estimation mining is to extract opinion targets and estimation vocabulary from a huge number of product reviews. The one of the come within reach of proposes a method base on partially supervised word arrangement representation, in which estimation relations naming is consider as an alignment process. Manipulative estimation relationship between words is an important for constructing Co-Ranking graph; to find self-assurance of each applicant graph based co-ranking algorithm is used. Higher confidence applicant are extracted as estimation targets or estimation words. Prior information also consider in finding confidence of applicant as being estimation target or estimation word. Previous methods are based on sentence structure based, compared to these methods proposed model minimizes negative effects of parsing errors. Due to use of partial supervision proposed model achieves better accuracy compared to unsupervised word alignment model. Final task is to extractive summary generation from estimation Targets and estimation Words with Word Alignment Model.

**Keywords---**Estimation Mining, Estimation Target Extraction, Estimation Word Extraction, Text Mining

#### I. INTRODUCTION

ART from the many advantages that investing in mutual funds provides good returns over a period of time and the helps as the best investment option. A Mutual Fund is a pure intermediary that performs a basic function of buying and selling securities on behalf of its unit holders. Mutual Fund is a body corporate which pools up the money from different types of investors and invests those funds on behalf of the investors in diversified securities. In other words, a mutual fund allows an investor to take a position indirectly in a basket of assets. A majority of investors are quite content in simply analyzing the appreciation in the net asset value (NAV) of their investment. They are not much more concerned about the risk associated with the investment alternative. Risk measure mostly deal with the character of a fund's returns and the manner in which these returns have been achieved. The

Manuscript received on January 10, 2018, review completed on January 12, 2018 and revised on January 23, 2018.

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present research will explore the measures of risk and return for the selected mutual fund schemes.

#### II. OBJECTIVES OF THE STUDY

The present study aims to achieve the following objectives by considering the main objective as to select the best Equity-Diversified Mutual fund among selected eight funds during the period of study:

- To compare and analyze the Equity-Diversified Mutual Fund schemes of select mutual fund players.
- To compare the growth in Equity-Diversified Mutual Fund schemes with Industry average. To find out the best Equity-Diversified Mutual Fund scheme in terms of return over the selected period of study.
- To suggest the public to improve return by investment in mutual funds.

The main objective of investment is to get return from investment from the mutual funds. An investor should take following points into consideration to earn good returns. An investor should assess the portfolio risk profile before investing in any fund. To select a fund with good past records of returns which is less volatile. An investor should select a portfolio of three to five funds which are less volatile in nature, and a good track record of consistent returns. For selection of a good fund, investor can compare the return of the fund with the industry average and benchmark indices. The fund which outperforms the both can be selected for investment. Investors should review their portfolio of mutual funds from time to time. Investors should try to keep their investment for a longer period of time so as to ensure that they can beat market volatility. Last but not the least; investor can withdraw funds according to his needs and purpose. The fund house should be professional, with efficient management administration.

To carry out the research following methodology is adopted:-

Data Collection The present research is a study of examining and analyzing selected mutual fund schemes by using different financial and statistical tools. The schemes taken for this purpose are Equity-Diversified Mutual Fund Schemes (Systematic Investment Plan). This study compares diversified funds launched by public sector, private sector, in India. The schemes

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Citation

**Abstract** 

Reference

Full PDF (../papers/Conf.17031-2017/Volume-5/5. 25-29.pdf?id=7557)

Paper Type : Research Paper

Title : Performance Improvement with Multiple Approaches to

Predict Disorders Caused by Thyroid Disease

Country : India

**Authors** : Dr.D.Anitha || Mrs.S.SathyaPriya

**Keywords**: Classification, Thyroid, Hyper Thyroid, Hypo Thyroid, Data Mining (DM), Data Preprocessing (DP)...

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## Performance Improvement with Multiple Approaches to Predict Disorders Caused by Thyroid Disease

## <sup>1</sup>Dr.D.Anitha, Mrs.S.SathyaPriya<sup>2</sup>

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Abstract: Thyroid diseases are widespread worldwide. India there is a generic problems caused due to thyroid diseases. research studies emphasis that about 43 million people in India suffer from thyroid diseases. This work focused on developed of a predictive system for thyroid detection such as hypothyroidism, hyperthyroidism, sick people and normal people. Classification is one of the most significant data mining techniques. The supervised learning used to classify predefined data sets. Data mining technique is mainly used in healthcare organizations for decision making, diseases diagonosis and for better treatment to the patients. It is a process to extract the data information from the huge amount of the data set classification is the analyze, processing time, sensitivity, error rate and classification accuracy. This paper describes to recognize the better method classification. As a result, the performance will be concluded for both classification techniques and their accuracy will be compared through confusion matrix. It has been concluded that J48 gives better accuracy than the other decision tree technique.

**Keywords:** Classification, Thyroid, Hyper Thyroid, Hypo Thyroid, Data Mining (DM), Data Pre-processing (DP).

#### I. Introduction

According to an analysis "DAILY TIME OF INDIA" while one in ten adults in India's people is suffering from hypothyroidism. This estimation is found on the premise of an analysis conduct by India thyroid society. The study also alert for thyroid and thyroid is 9th ranked in comparison to other type common disease like asthma, cholesterol, depression, diabetes etc. medical practitioner say that thyroid are same as other disorders, however, the investigation population are alert to thyroid disorders, know that there are diagnostic tests for finding of this disease. The thyroid is a 2-inch-long, butterfly-shaped gland weighing less than 1 ounce. Located in the front of the neck below the larynx, or voice box, it has two lobes, one on either side of the windpipe. The thyroid is one of the glands that make up the endocrine system. The glands of the endocrine system produce, store, and release hormones into the bloodstream. The hormones then travel through the body and direct the activity of the body's cells. Thyroid gland is broken into two section (1) Normal category of thyroid gland (2) this category the gland create abnormal type of thyroid hormones like as hypothyroid and hyperthyroid.

Hypothyroidism (underactive thyroid or low thyroid) that is called the thyroid hormones are not generating as much as necessary of certain important hormones. Hypothyroidism can justification various health problems such as: heaviness, joint pain, unfruitfulness and heart disease. Hyperthyroidism (overactive thyroid) belongs to a position is the thyroid gland delivers a lack of the hormone thyroxin. For this situation, the body's digestion system is quickening essentially, bringing about sudden weight reduction, a fast or irregular heartbeat. Predictive system is a group of accurate systems from machine learning, & information mining that consider present and reliable reality to make opportunity concerning future or generally difficult to understand occasions. Disease determination is not easy task it requires lots of experience and knowledge. Thyroid hormone production is regulated by thyroid-stimulating hormone (TSH), which is made by the pituitary gland in the brain. When thyroid hormone levels in the blood are low, the pituitary releases more TSH. When thyroid hormone levels are high, the pituitary responds by decreasing TSH production. The unique task is to give problem ending at before time stages with higher correctness. Data mining is a unique part in medicinal field for disease finding. Show predictive detection system of thyroid or illness finding systems important part of data mining.

#### II. Overview Of Thyroid

Thyroid is worldwide. In India also, the thyroid gland is positioned at the lower section of the human neck that produce the hormones that help regulates body processes, including growth, energy balance, and heart

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### **Enhanced Code Reuse Engineering**

#### R. Anitha

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#### Dr. B. Shanmugapriya

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**Abstract:**Code reuse is a critical strategy for all software development groups. By reusing code while moving to the next generation platform, corporations can leverage their existing software investment and lessen time to market. Many companies are struggling to fully implement code reuse throughout their organization. In order to achieve efficient and methodical code reuse, organizations must integrate this goal into their culture. Reusing code provides the greatest benefits to an organization if it is done systematically, rather than sporadically and opportunistically. There are many issues that can prevent systematic code reuse, both technical and nontechnical. The project software library modelling is used to enhance the code reusable strength. The software library modelling is the revolutionary method for software developers. It will reduce the time of the software developers and increase the efficiency of the software. Initially a software transaction library has been created for the previous software list. The list contains information like name of the software, language use, number of employee used, time taken to complete the project, accuracy and efficiency of the project, number of modules and etc. All the information will be considered for the forth coming calculations. Also the information will be update for current working software. Now the software library modelling gives the best information from the earlier content. This makes the project manager to assign software and calculate the time period of the software to the team. Most of the code suggestions will be generated by the software library modelling. For example while getting the new orders from the client, the project manager need to work out the time frame and cost to the client. At that time more confusion may occur in assigning the employee, calculating the cost, managing the time frame and etc. In addition with the employee flow modelling can be done using this method. All the employ's performance will be monitored and rated by this modelling method. The data will be used for the further calculations like employee work assignment, critical work assignment and emergency work assignment and etc. The software library is a good example of code reuse. Programmers may decide to create internal abstractions so that certain parts of their program can be reused, or may create custom libraries for their own use. Some characteristics that make software more easily reusable are modularity, loose coupling, high cohesion, information hiding and separation of concerns.

**Keywords:** Code Reusability, Software engineering, Software Library Model, Project Management, Requirement Analysis

#### 1. Introduction

There is an issue of figuring out how to rank gathering of articles by joining the inclination capacities or from accumulation of positioning. This issue of consolidating inclinations emerges in a few applications, for example, with that of joining the after effects of various web indexes, or the community oriented separating issue of positioning motion pictures for a client in view of the motion picture rankings given by different clients [1]. A group of learning calculations of regularization is proposed and it enables us to neglect the geometry of the negligible appropriation. Concentrate on a semi-administered structure that fuses marked and unlabeled information in a universally useful student. Some diagram learning calculations and standard strategies including bolster vector machines and regularized slightest squares can be acquired as extraordinary cases [2]. This paper intends to direct an investigation on the leastwise way to deal with figuring out how to rank. This approach takes in a positioning capacity by taking individual records as examples and also it limits a misfortune work anticipated rundown and the ground-truth list [3]. From the approach of different machine learning strategies, e.g., ranking SVM the figures out how to rank calculations demonstrated their promising exhibitions in data recovery, particularly web seek [4][5][6].

#### 1.1 Component Based Reusability

The goal of component based reuse engineering is to construct a standard collection of reusable components. Instead of reinventing the wheel each time, in future all software will be constructed by choosing a standard architecture and standard reusable framework and inserting standard reusable code artefacts into the





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Issue: April 2009 DOI: SE042009001

Title: Organizations' Perspective on Success and Failure of In-House Software Development

Authors: Dr. S. N. Geethalakshmi

Keywords: Success, Failure, Software Development Process, In-house

Abstract:

Project success and failure is a question of perception and that the criteria could vary from project to project. A project that has been perceived to be a failure by one stakeholder may be perceived as a success by another. Knowledge and understanding of success and failure factors, as well as how to measure them and the interactions between these factors have great importance for project management effectiveness. The success or failure of Software Project management consists of two components, namely the technical and non-technical components of software development. Non-technical related components of software development process tend to be under managed. Therefore a study was conducted in India among the industries that are into in-house software development, to investigate the influence of the non-technical components of the software development process, on success and failure of software development from the organizations' perspective (Practitioners' view). This study reveals that from organizational perspective the level of customer/user involvement, project manager/staff and software process management contribute most to project success and failure.

#### **Full PDF**

Issue: April 2009 DOI: SE042009002

Title: Cost and Coverage based Test Case Prioritization

Authors: Ms. L. Shanmuga priya, Ms. A. Malini, Ms.A. Askarunisa and Dr.N. Ramraj

Keywords: Regression Testing, Code Coverage, Test Case Prioritization, Mutation Faults, Average Percentage of Fault Detection (APFD)

Abstract:

Test case prioritization techniques schedule test cases for execution in an order that attempts to maximize some objective function. A variety of objective functions are applicable; one such function involves rate of fault detection - a measure of how quickly faults are detected within the testing process. An improved rate of fault detection during regression testing can provide faster feedback on a system under regression test and let debuggers begin their work earlier than might otherwise be possible. In this paper, we describe several techniques for prioritizing test cases and report our results measuring the effectiveness of these techniques for improving rate of fault detection. We have computed two different categories of metrices viz.fault criterion based and coverage criterion based. Metrices like, the average rate of fault detection(APFD), Average rate of fault detection with cost(APFDc), come under the first category while Average Percentage of Statement Coverage (APSC), Average Percentage of Branch Coverage (APBC), Average Percentage of Loop Coverage (APLC) and Average Percentage of Condition Coverage (APCC) come under the second category. Test cases were executed using JUnit tool. Code cover tool is used to find code coverage information. Test case prioritization is performed based on coverage and cost information. The results provide insights into the tradeoffs among various techniques for test case prioritization.

#### **Full PDF**

Issue: April 2009 DOI: SE042009003

**Title: Database Test Management Made Effective Through Metrics** Authors: Ms. P. Prameela, Ms.A. Askarunisa and Dr.N. Ramaraj

Keywords: Test Management, Software Metrics, Database Testing, Test Cases, Coverage Tree



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# A Study on Prioritization of Test Cases during Software Execution based on the Dependency

R. Anitha and Dr. B. Shanmugapriya

Abstract---Ordering of the Test case is used during execution in order to determine the fault based on the functional dependency. Test case prioritization is used for increasing the rate of fault detection. In this paper, a study on test case prioritization is analysed in term of functional dependencies between the codes during execution of the test cases. In this study, A common strategyfor handling test case dependencies is to group these fine-grained tests with dependencies into coarse-grained tests. The nature of the techniques preserves the dependencies in the test ordering. The hypothesis of this work is that dependencies between tests are representative of interactions in the system under test, and executing complex interactions earlier is likely to increase the fault detection rate. To handle the implication on this study, we propose a Hierarchy Process (AHP) can be considered the reference method among those which are based on the case-based paradigm.

*Keywords---*Software Engineering, Test Case Prioritization, Dependency.

#### I. Introduction

MOUNT of information that is accessible to fresh engineers or even to experienced staff seems to be today is mind-boggling. While a few centuries ago people were struggling to access information, today many are struggling to eliminate the irrelevant information that reaches them through various channels like news feeds and Database servers. Since concepts are abstract entities, representing them is another problem [1]. In part of this research, we establish a Data Warehouse or Code Repository as knowledge base. It contains lot of codes related to different concepts in different databases used to many domains (set of codes representing the same concept) and their relationships with other codes collection.

Feature selection is of paramount concern in document classification process which improves the efficiency and accuracy of text classifier. Vector Space Model is used to represent the Bag of Words, BOW of the documents with term weighting phenomena. Documents representing through this model has some limitations that is, ignoring term dependencies, structure and ordering of the terms in documents [2].

Digital Object Identifier: SE042018005.

To overcome this problem semantic base feature vector is proposed. That is used to extracts the concept of term, co-occurring and associated terms using ontology. The method is applied on small documents dataset, which shows that this method outperforms then Term Frequency/ Inverse Document Frequency (TF-IDF) with BOW feature selection method [3] for text classification.

Software prioritization is the process of ordering the execution of Software towards the requirement in case to achieve a certain goal, such as to decrease the fault of the result outcome Increasing the rate of fault detection can provide earlier feedback to system developers, improving fault fixing activity and, ultimately, software delivery. Many existing test case prioritization techniques consider that tests can be run in any order. However, due to functional dependencies that may exist between some test cases—that is, one test case must be executed before another—this is often not the case in terms of code prioritization. In test case prioritization techniques [4] that use the dependency information from a test suite to prioritize that test suite.

The nature of the techniques preserves the dependencies in the test ordering. The hypothesis of this work is that dependencies between tests are representative of interactions in the system under test, and executing complex interactions earlier is likely to increase the fault detection rate, compared to arbitrary test orderings [5]. The rest of the section is organized as follows, section 2 describes the review of literature followed by section 3 to define the proposed methodology as outline and finally section 4 concludes the study of the paper.

#### II. REVIEW OF LITERATURES

This Section deals with review of the literature for analysis of fault detection models using test cases and its prioritization techniques.

#### A. Test Case Prioritization Techniques

D. Jeffrey and N. Gupta, "Experiments with Test Case Prioritization Using Relevant Slices, Software testing and retesting occurs continuously during the software development lifecycle to detect errors as early as possible. The sizes of test suites grow as software evolves. Due to resource constraints, it is important to prioritize the execution of test cases so as to increase chances of early detection of faults. Prior techniques for test case prioritization are based on the total number of coverage requirements exercised by the test cases. Approach to prioritize test cases based on the coverage requirements present in the relevant slices of the outputs of test cases [6].

Manuscript received on January 18, 2018, review completed on January 20, 2018 and revised on January 31, 2018.

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Author:	S. KAVIPRIYA , DR.T. DEEPA	
Abstract:	Feature selection plays a significant role in any data mining research problem. In this research work, comprehensive feature selection is applied for selecting the attributes in the chosen PIMA Indian diabetes dataset. The comprehensive feature selection mechanism makes use of maximum significance pattern for selecting the most edifying features, which effectively distinguish between different classes of samples. By making use of the comprehensive feature selection mechanism, the degree of relevance between the feature variables and target variable is quantified, and the informativeness of features is determined according to the degree of the relevance score. In order to implement this mechanism, novel evidence metric, NEM, is employed to score the relevance degree of a candidate feature variable with respect to the target variable. Once after the feature selection is carried out, SVM classifier is applied for performing the prediction of heart disease among gestational diabetes patients in the dataset. Performance metrics such as sensitivity, specificity, true positive rate, false positive rate, precision, accuracy and time taken for feature selection are taken into account. The results are demonstrated with better performance.	
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Abstract:	Finger vein is a physiological biometric technology used in the identification systems for personal authentication based on the physical features of the vein patterns in the finger. In this paper, computer vision algorithms (FAST and Harris) were used to extract features (corner points) from the finger vein image, while the matching of patterns was based on the differences between corners represented in the form of points using the Manhattan distance. The False Matching Rate (FMR) and False Non-Matching Rate (FNMR) were minimized to obtain the optimum threshold value. This threshold were used to make the final decision. The proposed system proved that use of two algorithms together reduces the error rate and aids to produce a reliable system of finger vein identification.	
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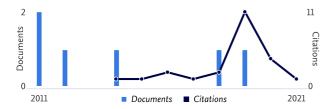
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15<sup>th</sup> May 2018. Vol.96. No 09 © 2005 – ongoing JATIT & LLS



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## COMPREHENSIVE FEATURE SELECTION BASED SUPPORT VECTOR MACHINE CLASSIFIER (CFS-SVM) FOR CLINICAL DATASET

#### S. KAVIPRIYA<sup>1</sup>, DR.T. DEEPA<sup>2</sup>

<sup>1</sup>Research Scholar, Department of Computer Science, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil Nadu, India

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Tamil Nadu, India

E-mail: kavipriya.vignesh@gmail.com<sup>1</sup>, deepacs@srcw.ac.in<sup>2</sup>

#### **ABSTRACT**

Feature selection plays a significant role in any data mining research problem. In this research work, comprehensive feature selection is applied for selecting the attributes in the chosen PIMA Indian diabetes dataset. The comprehensive feature selection mechanism makes use of maximum significance pattern for selecting the most edifying features, which effectively distinguish between different classes of samples. By making use of the comprehensive feature selection mechanism, the degree of relevance between the feature variables and target variable is quantified, and the informativeness of features is determined according to the degree of the relevance score. In order to implement this mechanism, novel evidence metric, NEM, is employed to score the relevance degree of a candidate feature variable with respect to the target variable. Once after the feature selection is carried out, SVM classifier is applied for performing the prediction of heart disease among gestational diabetes patients in the dataset. Performance metrics such as sensitivity, specificity, true positive rate, false positive rate, precision, accuracy and time taken for feature selection are taken into account. The results are demonstrated with better performance.

**Keywords:** Feature Selection, Data Mining, Gestational Diabetes, Accuracy, Time Taken, Feature Selection. Risk Prediction.

#### 1. INTRODUCTION

Data mining in health informatics is a computational process for mining facts from available clinical databases. Data mining is broadly classified as predictive data mining and descriptive data mining. Classification and prediction falls under the category of predictive data mining. Risk prediction of heart diseases is one among the thrust research area in the field of clinical decision support system. Knowledge based clinical decision support system (CDSS) usually consists of three components namely knowledge base, inference engine mechanism to communicate. Non-knowledge based CDSS makes use of machine learning algorithms namely support vector machine, relevance vector machine, artificial neural network and extreme learning machine. These machine learning algorithms countenance

computers to acquire from historical practices and/or find patterns in available clinical data. The non-knowledge based CDSS disregards the requirement for scripting rules and for proficient input. Nevertheless, these non-knowledge based CDSS based on machine learning possibly won't elucidate the causes for their conclusions and hence known as "black boxes", for the reason that no expressive facts about the working will be distinguished by human scrutiny.

Almost all the clinical practitioners do not make use of such non-knowledge based CDSS directly for diagnoses due to the reliability and accountability reasons. On the other hand, they are used for design and development of post-diagnostic systems, for portentous patterns for clinicians to purview on it. In recent years, diverse data mining procedures have been used for decision support for heart disease risk prediction. Certain methods are portrayed in

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flaps which can be used in multi-element airfoil .And the best positions of single slotted flaps are not so well defined. Hence maximum lift coefficients of single slotted flaps are very sensitive to flap position, however, and optimum configurations cannot be predicted with any degree of accuracy. For a Fowler flap it's convenient to use the combination for an angle of attack equal to  $(15^{\circ})$  with deflection angle equal to  $(35^{\circ})$  and  $(35^{\circ})$ . Also it was concluded for Fowler flap that as the flap deflection angle increase to a value of  $(45^{\circ})$  with the existence of an angle of attack equal to  $(5^{\circ})$  it is clearly revealed the improper combination of these two angles due to large wake vortex generated downstream of multi-element airfoil since the boundary layer that pass over main part of the airfoil.

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Title:

Experimental study on Coir blended concrete strengthened with Fly-ash and Granite powder

Author (s): Md. Ehraz Akhtar and S. Elavenil

Abstract:

This paper describes the experimental studies on the use of Coir as an enhancement of concrete, Fly-ash and Granite powder as a partial replacement of cement and fine aggregate. The addition of Coir significantly improved the engineering properties of concrete, the application of Fly-ash is to enhance the workable performance of the concrete and the application of Granite powder increases the mechanical strength of the concrete. The definitive goal of this research paper is to focus on the environmental sustainability and to find an alternative to normal control concrete. Concrete mix design of M40 was prepared based on Indian standard code (IS 10262). In the concrete mix, the cement was partially replaced with fly-ash (10%, 20%, 30%, 40% and 50%) by weight fraction along with partially replacement of fine aggregate with granite powder (25% and 50%) by weight fraction and incorporation of 1% coir fibre by volume fraction. Concrete cubes, cylinders and beams were casted and tested for attaining mechanical and physical properties for 7 and 28 days of curing. Non-destructive tests have proved the concrete to be a perfect alternate to control concrete. Mechanical test like compressive strength showed varying results but notable values were seen during the flexural and tensile strength test. Thus, it was accepted that fly-ash and granite powder can be proven perfect replacement for cement and sand along which coconut coir fibre increases the flexural and tensile strength while having varying effect on the compressive strength.

**Full Text** 

Title:

Failure mode and effect analysis (FMEA) applied for risk assessment of fuel oil system on Diesel engine of fishing vessel

Author (s):

Rahmad Surva Hadi S., Yuniar Endri Priharanto and Muhamad Zaki Latief

Abstract:

The existence of diesel engine commonly used as a main propulsion engine on fishing vessel, Diesel engine works continuously during fishing operation thus requisite extra intention to ensure the Diesel engine work properly. Since the diesel engine work hardly several components could be failed to work or even worst, for example fuel system. To prevent operational failure of Diesel engine caused by failure of fuel system hence proper maintenance is needed specially on components that exist in fuel system. On the fuel system consists of many components, but only on critical components that need to be treated. To determine the critical component it is necessary to analyze based on the possible failures of each component. This paper aims to apply the FMEA approach to find out how to assess the possible risks in the diesel engine fuel system used as the main propulsion of fishing vessel. The study was performed critical components of the fuel system in the event of failure will result in the failure of the diesel engine operation as follow Fuel storage tanks, transfer pumps, daily fuel tanks, separators, hand pumps, double stage filters, high pressure fuel pumps, high pressure fuel line and injector.

**Full Text** 

Title:

Receptacle - artificial bee colony (R-ABC) classifier for classification of gestational diabetes

Author (s): S. Kavipriya and T. Deepa

Abstract:

Limiting the feature subset size and expanding the classification accuracy for performing the prediction of heart disease among gestational diabetes patients in the dataset is one among the thrust research area in the field of healthcare informatics and its related application domains. In this research work a receptacle artificial bee colony (R-ABC) classifier is employed for performing the aimed task. Certain enhancements are made with the conventional ABC algorithm in terms of using negligible free vitality, swarming separation task conspire, two - point crossover operation and two - way mutation operation are performed. Quick non-commanded arranging are arbitrarily decided for every present solution in the utilized honey bee stage. Between the present solution and its neighbourhood solution and specifically the proposed solution generator is connected to shape another solution set. With the help of edge esteem the classification is performed. Performance metrics such as sensitivity, specificity, true positive rate, false positive rate, precision, accuracy and time taken for feature selection are taken into account. The results are demonstrated with better performance.

Title:

New statistical steganography method to hide information in image with high robustness against JPEG attack

Author (s):

Mohammed Kamal and Hameed M. Abduljabbar

Abstract:

New statistical steganography method (NSSM) to override or reduce the effect of JEPG attack on a cover image is presented in this work. The new method based on an analysis of the JPEG algorithm, in which it uses the value of the mean and the standard deviation of each cover blocks to embed the secret message, where the cover image blocks calculated in the same manner of the JPEG algorithm. Two standard images that differ in their amount of texture (Lena and The Baboon images) are used to test the new method; an analysis and discussion are presented for the results of applying this method which proved the validity of this method to override the JEPG attack.

**Full Text** 

Title:

Flower image segmentation using watershed and marker controlled watershed transform domain algorithms

Author (s):

B. K. V. Prasad, M. V. D. Prasad, Raghava Prasad, N. Sasikala and Sunita Ravi

Abstract:

Watershed and marker-controlled watershed transform domain methods are the one of the powerful tools for image segmentation. Segmentation and recognition are two primary stages in the development of a fully digitized flower identifier for real time use. This paper limits the following discussion to flower image segmentation only. The objective of this work is to study and explore flower detection and segmentation algorithms with watershed transform. Two variants of watershed transform with morphological gradients and wavelet coefficients are proposed. The flower segmentation problem uses watershed and marker-controlled watershed algorithm during the initial phases. This transformed into a wavelet based fusion model with binary flower images in the later stages giving reasonable segmentation outputs. The segmentation results are analysed both visually and mathematically. The average segmentation distance error (SDE) and structural similarity index (SSIM) on Oxford university flower dataset is around 0.485 and 0.786 respectively.

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#### RECEPTACLE - ARTIFICIAL BEE COLONY (R-ABC) CLASSIFIER FOR CLASSIFICATION OF GESTATIONAL DIABETES

#### S. Kavipriya and T. Deepa

Department of Computer Science, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil Nadu, India E-Mail: <u>kavipriya.vignesh@gmail.com</u>

#### ABSTRACT

Limiting the feature subset size and expanding the classification accuracy for performing the prediction of heart disease among gestational diabetes patients in the dataset is one among the thrust research area in the field of healthcare informatics and its related application domains. In this research work a receptacle artificial bee colony (R-ABC) classifier is employed for performing the aimed task. Certain enhancements are made with the conventional ABC algorithm in terms of using negligible free vitality, swarming separation task conspire, two - point crossover operation and two - way mutation operation are performed. Quick non-commanded arranging are arbitrarily decided for every present solution in the utilized honey bee stage. Between the present solution and its neighbourhood solution and specifically the proposed solution generator is connected to shape another solution set. With the help of edge esteem the classification is performed. Performance metrics such as sensitivity, specificity, true positive rate, false positive rate, precision, accuracy and time taken for feature selection are taken into account. The results are demonstrated with better performance.

Keywords: feature selection, data mining, gestational diabetes, accuracy, time taken, risk prediction.

#### 1. INTRODUCTION

Data mining in wellbeing informatics is a computational procedure for mining realities from accessible clinical databases. Data mining comprehensively delegated prescient data mining and elucidating data mining. Characterization and prediction falls under the classification of prescient data mining. Risk prediction of gestational ailments is one among the push examine region in the field of clinical decision emotionally supportive network. Learning based clinical decision emotionally supportive network for the most part comprises of three segments in particular information base, surmising motor and instrument to convey. Noninformation based CDSS makes utilization of machine learning calculations to be specific help vector machine, importance vector machine, simulated neural system and extraordinary learning machine. These machine learning calculations face PCs to procure from authentic practices or potentially discover designs in accessible clinical data. The non-learning based CDSS neglects the prerequisite for scripting rules and for capable information. By and by, these non-information construct CDSS situated in light of machine adapting potentially won't explain foundations for their decisions and henceforth known as "secret elements", for the reason that no expressive actualities about the working will be recognized by human examination.

All the clinical experts don't make utilization of such non-learning specifically for analyze because of the unwavering quality and responsibility reasons. Then again, they are utilized for plan and advancement of postdemonstrative frameworks, for ominous examples for clinicians to domain on it. As of late, assorted data mining techniques have been utilized for decision bolster for coronary illness risk prediction. Certain techniques are depicted in early which incorporates decision tree, neural system, and affiliation run mining, (R Alizadehsani et al., 2013, J Nahar et al., 2013, I.Kurt et al., 2008, M.G.

Tsipouras et al., 2008). Decision tree is anything but difficult to actualize and decipher and it gives a tree-based grouping to building up a prescient model as per free factors (M.J. Berry and G. Linoff., 1997). Decision tree is by all accounts one the exact calculations among data mining devices.

#### 2. LITERATURE REVIEW

B. Dennis and S. Muthukrishnan, 2014 proposed Adaptive technique based Genetic Fuzzy System with the target of optimizing rules and membership functions for medical data classification process. To establish the efficiency of the proposed classifier the presentation of the anticipated genetic-fuzzy classifier was evaluated with quantitative, qualitative and comparative analysis. Hybrid Prediction Model (HPM) proposed by B.M. Patil et al., 2010 used Simple K-means clustering algorithm aimed at validating chosen class label of given and subsequently applying the classification algorithm to the result set. C4.5 algorithm was used to build the final classifier model by using the k-fold cross-validation method. J. Jabez Christopher et al., 2015 used a meta-heuristic approach called Wind-driven Swarm Optimization (WSO). The individuality stands in the inspiration of biology that underlies the algorithm. It utilizes a new metric called Jval, to analyze and evaluate the rule-based classifier efficiency. Rules were extracted from decision trees. WSO used to obtain different permutations and combinations of rules whereby the optimal rule set that satisfies the requirement of the developer was used for predicting the test data.

J. Mattila et al., 2012 presented a novel generic clinical decision support system, which models a patient's disease state statistically from heterogeneous multistage data, where the goal was to aid in diagnostic work by analyzing all available patient data and highlighting the relevant information to the clinician. Jamal Salahaldeen Majeed Alneamy and Rahma Abdulwahid Hameed

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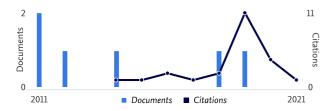
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### Dual Edge Classifier Based Support Vector Machine (Desvm) Classifier for Clinical Dataset

S. Kavipriya, T. Deepa

Abstract: Data mining the progression of determining hidden information that are available in the existing data. Data mining discovers interesting, convenient relationships in huge volume of data. Many fields including medical field is using data mining for classifying the data. Classification is method which assigns a data in the collection to predict the objective class. Classifying a diabetic patient is tedious job in the current medical field. The main intention of this paper is to propose a novel classifier enhancing support vector machine to correctly classify the diabetic patients more accurately than the previous classifiers. Performance metrics such as sensitivity, specificity, rate of true positive and false positive, precision, accuracy and time taken for feature selection are used. In the proposed classifier threshold value is fixed for metric recall and true negative rate. The results are demonstrated with better performance.

Keywords: Classification, SVM, Gestational Diabetes, Prediction, and Accuracy.

#### I. INTRODUCTION

Data Mining (DM) occupies the space between the science of computer, optimization, and estimations, where it routinely appears in different disciplines. All things considered, DM is the path toward seeking idea about information from interchanging divergent perspectives. Here learning can suggest any sorts of consolidated or obscure information that are concealed as rough data. It can be a course action of rules made from available data accumulated from couple of patients of a particular infirmity and healthful people. These benchmarks perchance utilized for forecasting the health condition of new patients. By, all things considered, DM endeavours are portrayed into two classes: (i) descriptive, and (ii) predictive. Descriptive DM errands depict a objective data set in brief, enlightening, discriminative structures, where the predictive DM errands lead the acknowledgment and induction on present data to construct the future prediction. Supervised learning aspires for developing a predictive strategy from data when the feature of class is accessible. There exists two sorts of class features: (i) category based features, and (ii) numeric based features. The category based feature can take simply apparent characteristics, while the numeric based feature can choose vast quantity of characteristics. By and large, the predictive model is known as a classification model, and when a class include obvious cum numeric, then it is said as regression model. As it were, order is to find and forecast the patients a category, while regression forecast's are numeric esteem. Here, the term "supervised" implies the classification method knows about the prediction because the features of the class are resolved.

#### Revised Manuscript Received on March 25, 2019.

S. Kavipriya, Research Scholar, Department of Computer Science, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil, Nadu India

**Dr. T. Deepa**, Assistant Professor, Department of Computer Science, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil Nadu, India

#### II. LITERATURE REVIEW

Brisimi. T. S et al., 2018 has proposed 2 methods namely K which was a test method following the ratio of likelihood, and a Joint Clustering Classifier which was utilized to detect the hidden clusters in patient history and it ensembles the classifier to all the cluster, furthered theory based sample was developed to provide guaranty for upcoming strategies. Wang. Y et al.,2017b proposed decision making strategy based on sharing scheme for the diabetes people of type-2 category, patients were taken care by the information gathered from the sample of previous history. For the classification purpose multilabel methodology was used to provide medications to the patients. Turksoy. K et al.,2017 proposed a classifier for finding the of faults in the concentration of glucose which were suggested the glucose sensor and a dynamic model based on nonlinear was developed, where they named the method as multivariable statistical monitoring methods. Lekha. S., 2018 explored the utilization of enhanced version of single dimensional convolution neural network method to feature extraction concept with benchmark classification methods, where the results shows that there exist a significant level of reducing the limitations individually. Kijanka. P et al.,2018 presented an classical two dimensional fourier transformation concept to utilize the method of multi signal classification, and to give effective estimation to classification k-space cum space velocity curves were used. Rasti. R et al., 2018 presented a Computer-aided Diagnosis method which was fully based on convolution ensembling. This method aimed to detect the casual retina of diabetic patients by making a comparison with casual pathologies. Wang. D et al.,2017a presented a general methodology connecting feature extraction by pulse, and it extends dimension of feature from one dimension time series to two dimension time series matrix, where predictable wrist features relating to pulse were analyzed to enhance the results. Vyas. R et al., 2018 by utilizing Genetic Programming (GP) method demonstrated the based Symbolic Regression (SR) approach for predicting the disease. Moreira. W. L et al., 2018 proposed Artificial Neural Network based classifier by making an analysis on model, evaluation of performance, and comparison of different classification techniques, namely radial basis cum neural network. This method has mainly focussed to detect all the cases of gestational diabetes which can efficiently find the risk level for conceived women and fetus. Ruiz. E et al.,2016 presented a classifier for assigning the correct meal and measuring the moment to the available insufficient glycaemia information,

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International Journal of Theoretical & Applied Sciences, Special Issue 10(1a): 24-29(2018) nal Conference on e-SMAC-2018

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#### Social Media Marketing on Travel and Tourism Industry

Dr. S. Preetha and V. Bharathi

Assistant Professor, Department of Computer Science, Sri Ramakrishna College of Arts & Science for Women, Coimbatore (Tamilnadu), India <sup>2</sup>Research Scholar, Department of Computer Science, Sri Ramakrishna College of Arts & Science for Women, Coimbatore (Tamilnadu), India

ABSTRACT: Travel and Tourism is one of the industries that is mostly influenced by digital development. Tourism and accommodation companies are among the first ones to make use of digital marketing techniques in their practices to engage their customers to provide the feel at home experiences. Digital Marketing plays a vital role in every business in the Tourism industry. As tourists and travelers are looking for instant information, which is provided from online business websites, mobile apps and social media. There is drastic change in customer's behavior in association with the technologies of the internet. A growing number of travel agencies have changed from their traditional system to online travel agencies. Travel &tourism service providers build their business by offering great travel deals online by digital medium. This paper focus the impact of the digital marketing on travel and tourism industry.

Keywords: Digital Marketing, Internet Marketing, IT for Tourism, Online Bookings, Social Media Marketing, Travel & Tourism.

#### LINTRODUCTION

In this internet era, the rules of all the business have been redefined all over the world. The impact of digital transformation in every business area has been grown tremendously. And there is no exception for travel and tourism industry also. This digital transformation has become the key focus area of business growth now-adays. Internet has stepped in as a mode of communication and has evolved into mandatory to maintain and develop the business into next level for long term relationship so that it provides opportunity for the brands to interact with their customers directly. Travelers wander quickly from one place to other place. They browse the internet for wider range of information of hotels and travel agencies on multiple devices so as to get personalized service and easy booking experience.

The travel companies incorporated digital marketing strategies to reach their right audience for improving the better exposure and gain insights of their brand. The ultimate goal of digital marketing to reach the target audience and improve the brand or business to lead more success. The customer should be able to interact with the business.

#### II. UNDERSTANDING DIGITAL MARKETING

Digital marketing is the marketing of brands or products in the internet (electronic media) which uses different methods and channels to reach their audience.

The digital marketing can be done in various mediums to get popularize and to get conversions for a good startup of a business. The various forms include

- 1. Search Engine Optimization(SEO)
- 2. Search Engine Marketing(SEM)
- 3. Pay Per Click Advertisement(PPC)
- Content Marketing
- Social Media Marketing
- 6. Influencer marketing and many more.

The need of the customer is understood whenever digital campaign is launched which helps to track the user behavior in life time, engagement and conversion of the customers. With the evolution of the digital marketing in the travel and tourism industry, the new ways to reach the target customers by blogging, paid search campaigns, content marketing, search engine optimizations, social media like twitter, Facebook, Instagram. These practices shapes the travel and tourism industry to get more digitalized.

Traditional marketing helps to understand the audiences from the analysis of data collected in market research. Transformation of traditional marketing with internet technology gathers detailed information on customer's behavior and their characteristics in electronic media. This business transformation requires careful planning, adaption and inclusion of many digital trends and strategies which challenge the business for better growth with the consistent flow of data integration.



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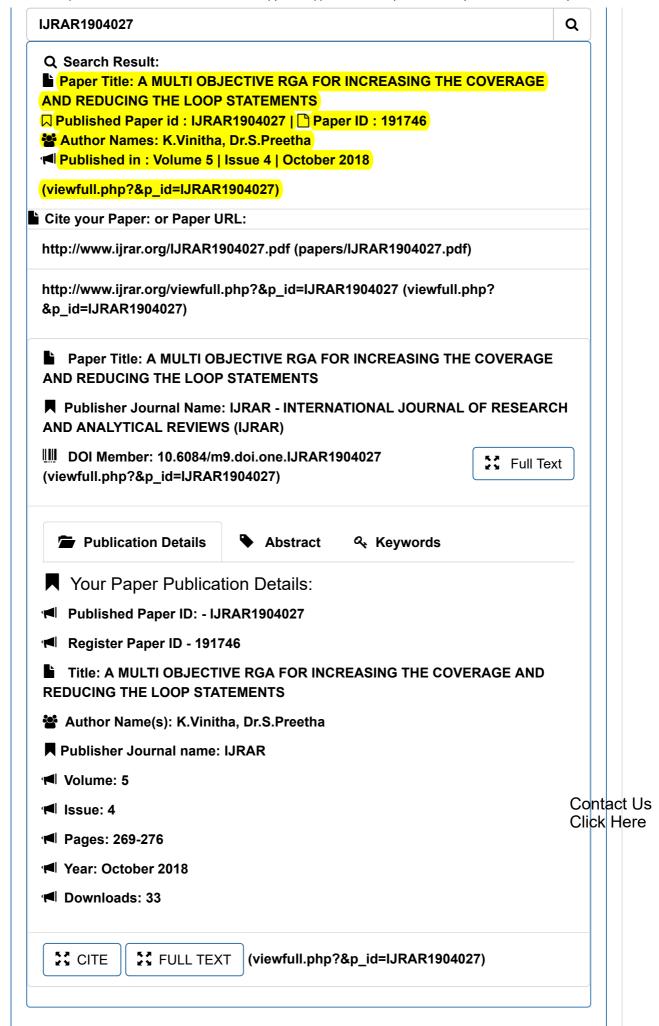
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## A MULTI OBJECTIVE RGA FOR INCREASING THE COVERAGE AND REDUCING THE LOOP STATEMENTS

K.Vinitha[1], Dr.S.Preetha[2] [1] Research Scholar, [2] Associate Professor [1] Department of Computer Science, [1] Sri Ramakrishna College of Arts and Science For Women, [1] Coimbatore, India

#### **ABSTRACT**

Software testing is one of the most important and primary techniques to create reliable, robust and trustworthy software. Among different researches, genetic algorithm (GA) has been combined with other intelligent algorithms such as simulated annealing, particle swarm optimization and ant colony algorithm. Adapting these techniques to programs in varied subject areas with relatively stable results is difficult because of the inherent uncertain nature of GA itself. Regenerate Genetic Algorithm (RGA) has been proposed for solving this problem efficiently. This algorithm was defined population aging factors and the population aging process to determine the degree of population aging. When population aging has reached a certain limit, a population regeneration operation was triggered. This approach was used for preventing population aging and enhancing test coverage. But, this approach has high looping statements. Hence, in this paper, Multi objective RGA is proposed for increasing the coverage and decreasing the loop statements. In the proposed approach, fitness value is calculated by using coverage and loop statements. This approach is satisfied both coverage and loop conditions of conditional statements. The experimental results show that the proposed approach provides the better results in terms of coverage, number of methods covered and execution time.

Keywords: Regenerate genetic algorithm, population aging, coverage, Multi objective RGA, Conditional statements

#### 1. INTRODUCTION

Software testing is one of the major and primary approaches for creating reliable, robust and trustworthy software. However, software testing is still a very labor-intensive, time-consuming, and expensive task and accounts for approximately 50% of total software cost (Orso, A., & Rothermel, G. 2014). To minimize the effort expended and maximize the satisfaction of test coverage criterion, test data generation can be treated as an optimization problem to which meta-heuristic methods, especially genetic algorithms (GAs), can be applied. Some popular proposals to avoid the population falling into the local optimal solution and improve the execution efficiency for different kinds of software testing applications include multiple populations (Chen, Y., & Zhong, Y. 2008) and dynamic population (Alshraideh, M., et al. 2011).

From the viewpoint of improving GA operations, different strategies have also been adopted to improve the selection, crossover, and mutation operators, in order to facilitate optimistic search in GAs (Miller, J., et al. 2006). One of the problems being faced is difficulty implementing these techniques practically without extra effort because of the highly complex nature of the improvements (Malhotra, R., & Garg, M. 2011). Regenerate genetic algorithm (RGA) (Yang, S., et al. 2016) was presented that was based on new simple, stable and easy-to-implement regeneration approach which was involved judging the population aging process. This approach was defined population aging factors and process for establishing the degree of population aging. When population aging has reached a certain limit, a population regeneration operation was triggered. However, this approach is only considered test coverage and also has high test loop.

In this paper, Multi objective RGA is proposed for increasing the test coverage and decreasing the loop statements. The proposed approach is satisfied both coverage and loop conditions of conditional statements. In the proposed approach, fitness value is calculated by using coverage and loop statements. The remainder of the article is organized as follows: Section 2 describes about the test data generation. Section 3 describes about the proposed methods. Section 4 illustrates the performance evaluation of the proposed techniques. Section 5 concludes the research work.

#### 2. LITERATURE SURVEY

The basic Ant Colony Optimization (ACO) (Mao, C., et al. 2015) was reformed into discrete version to generate test data for structural testing. The technical roadmap of combining the adapted ACO algorithm and test procedure together was presented. To improve an algorithm's searching ability and generate more diverse test inputs, some techniques such as global transfer, local transfer and pheromone update were described and applied.

Three techniques (depth first approach, breadth first approach and the path prefix approach) (Pachauri, A., & Srivastava, G. 2013) were discussed to order branches for selection as targets for coverage. In addition, Elitism and memory was considered along with branch ordering to improve test data generation performance.

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## A LITERARY SURVEY ON TEXTMINING APPLICATIONS AND TECHNIQUES

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#### ABSTRACT

Text mining plays an important role in research field. It uses the text analysis with supported machine text. The unstructured texts which contains large amount of data information cannot be used for by the computer and knowledge extracted from unstructured text completely uses text mining. The techniques of text mining are retrieval of information, extraction of information with language processing and connect each other with the algorithms and KDD (knowledge discovery data) methods, data mining concepts, machine learning and statistics. Nowadays there are enormous amount of data stored increasing day by day by using the concepts and techniques to extract the useful information. In this paper it is discussed briefly about the text mining applications and the techniques used in the text mining.

Keywords: Text mining, Text mining Application, Text mining Techniques.

#### **I.INTRODUCTION**

By using the discovering patterns large amount of data are increasing day by day to find the accurate data. Relevant data information is extracted from the huge amount of data by using text mining. To solve this problem various techniques are used for the unstructured text documents to extract the required pattern. Text mining techniques are known as Discovery from Text (KDT). Mining text documents have the some structured and the un structured so that computer is not as much capable to differentiate the patterns as compared to human. Computer can perform the techniques at very high speed and in large volume. Text mining is used to extract the structured data from the unstructured information of data. Function used in text mining summarization, categorization, clustering. In this paper overview of text mining, techniques of text mining, merits, applications and demerits are studied.

#### II. NEED OF TEXTMINING

Text mining is used to handle the text data. The textual unstructured is very difficult to be manipulated and with the help of the information exchange data mining is used in the business field data. The nontraditional How start New Journal & software (http://ijcrt.org/How to start new journal & journal supporting software.php)

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# AN EFFICIENT LOAD BALANCING DATA PARTITIONING IN FREQUENT ITEMSET MINING ON SPARK RDD FRAMEWORK

<sup>1</sup> Jitha Janardhanan <sup>2</sup> Dr.E.Mary Shyla

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 <sup>1</sup> Sri Ramakrishna College of Arts and Science for Women, Coimbatore, India

Abstract: Frequent Item mining is the significance of data mining techniques to define patterns from the Big datasets. Frequent Itemset Mining is one of the predictable data mining problems in most of the data mining applications. It comprises very large reckonings and Input/output traffic capacity. Also resources like single processor's memory and CPU are very incomplete, which lowers the functioning of algorithm. In this exploration broadsheet aims to present a EFPGSID (Enhanced Frequent Pattern Growth Skewed intermediate data blocks), a parallel Frequent item mining algorithm based on the Spark RDD (Resilient Distributed Datasets) framework—a specially-considered in-memory parallel computing framework to backing load blanching algorithms and interactive data mining. The outcomes shown that the performance of the new system is effective compared with other FiDoop-DP mining algorithms. As the Investigational results show, Enhanced-FP-Growth with load balancing strategy clearly outperforms FP-Growth and FiDoop-DP. It is faster than FP-Growth and is not expensive like FP-tree.

IndexTerms - Frequent itemset mining, parallel data mining, data partitioning, Apache Spark model, hadoop cluster

#### I. INTRODUCTION

Data mining is a method to recognize and exchange raw data into valuable information, is increasingly being used in a mixture of fields like business intelligence, marketing, scientific discoveries, biotechnology, multimedia and Internet searches. Data mining is an interdisciplinary field merging concepts from machine learning, statistics and natural language processing.

Advances in computing and networking technologies have resulted in many distributed computing environments. The several distributed data sets allow large-scale data-driven knowledge discovery to be used in science, business, and medicine. Data mining in such environments requires a utilization of the available resources. Conventional data mining algorithms are developed with the assumption that data is memory resident, making them unable to cope with the exponentially increasing size of data sets. Therefore, the use of parallel and distributed systems has gained significance.

Generally, parallel data mining algorithms work on tightly coupled custom-made shared memory systems or distributed-memory systems with fast interconnects. The main differences between such algorithms are scale, communication costs; interconnect speed, and data distribution. MapReduce is an emerging programming model to write applications that run on distributed environments. Several implementations such Apache Hadoop are currently used on clusters of tens of thousands of nodes [1]. This thesis focuses on Spark with Hadoop MapReduce design and the implementation of two new data mining techniques relating to enhanced frequent item mining and load balancing in Spark computing environment. This trend to use distributed, complex, heterogeneous computing environments has given rise to a range of new data mining research challenges. This work explores the different methods and trade-offs when designing and implementing distributed data mining algorithms. On the whole, it deliberates data partition/replication and workload dispersion and data formats. Also, this work objects to investigate the hardware utilization when running Spark MapReduce algorithms on the infrastructure. This helps to study the behavior of algorithms on simulated large clusters. This helps rapid optimizing and rapid developing efficient algorithms that use the spark load balancing framework.

Apache Spark is an open source cluster computing environment that supports in-memory distributed datasets enhancing iterative process runs. Spark was developed at the University of California Berkeley, Algorithms Machines and People Lab to build large-scale and low-latency data analytics applications. [2]

Spark is employed in the Scala language. Spark and Scala are tightly assimilated, that makes Scala the proficiency to easily deploy distributed datasets as local objects. Spark was intended for a specific type of jobs in cluster computing that reprocess a working set of data across the parallel operations. As an optimization for these types of jobs, Spark developers introduced the concept of in-memory cluster computing, where it is possible to cache the datasets in memory to reduce their latency of access [2].



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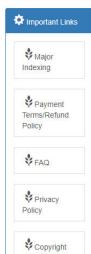
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S KEERTHANA, DR.E.MARY SHYLA

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Negative image, positive image

Abstract

Now a days, world has made computers an inseparable part of their life as computers are used for performing the entire work of humans with better accuracy and efficiency. Visual scene analysis is a high-level tasks that acquire knowledge from videos or digital images that comes under the domain of computer vision. Object Detection is a field of computer vision and image processing which involves detecting objects of varying class (animal, humans or cars) present in images and videos. Some well-researched applications of object detection are in the domain of car detection, face detection, image retrieval and video surveillance. This survey especially focuses on to examine the different images and videos based object detection methods to support various environments. The main objective of this research is to study about different images and videos based object detection methods used for detecting and solving images and videos based object detection problems. This paper provides detailed information about the different object detection techniques in various environments. Finally, comparisons are made for different object detection methods used in different images and videos environments.

Cite this article

S KEERTHANA, DR.E.MARY SHYLA, "A LITERATURE SURVEY ON WILD ANIMAL DETECTION USING VARIOUS DATAMINING TECHNIQUES", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.5, Issue 3, Page No pp.616-622, August-2018, Available at: http://www.ijrar.org/IJRAR1903610.pdf

✓ IJRAR's Publication Details

■ Unique Identification Number - IJRAR1903610

Paper ID - 191009

■ Page Number(s) - 616-622

Pubished in - Volume 5 | Issue 3 | August-2018

■ DOI (Digital Object Identifier) -

Publisher Name - IJRAR | www.ijrar.org | E-ISSN 2348-1269, P- ISSN 2349-5138

■ E-ISSN 2348-1269, P- ISSN 2349-5138

O Cite this article

S KEERTHANA, DR.E.MARY SHYLA, "A LITERATURE SURVEY ON WILD ANIMAL DETECTION USING VARIOUS DATAMINING TECHNIQUES", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.5, Issue 3, Page No pp.616-622, August-2018, Available at: http://www.ijrar.org/IJRAR1903610.pdf

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## A LITERATURE SURVEY ON WILD ANIMAL DETECTION USING VARIOUS DATAMINING **TECHNIQUES**

S. Keerthana [1], Dr. E. Mary shyla [2], [1] Research Scholar, [2] Assistant Professor [1] Department of Computer Science, [1] Sri Ramakrishna College of Arts and Science For Women, [1] Coimbatore, India

#### **ABSTRACT**

Now a days, world has made computers an inseparable part of their life as computers are used for performing the entire work of humans with better accuracy and efficiency. Visual scene analysis is a high-level tasks that acquire knowledge from videos or digital images that comes under the domain of computer vision. Object Detection is a field of computer vision and image processing which involves detecting objects of varying class (animal, humans or cars) present in images and videos. Some wellresearched applications of object detection are in the domain of car detection, face detection, image retrieval and video surveillance. This survey especially focuses on to examine the different images and videos based object detection methods to support various environments. The main objective of this research is to study about different images and videos based object detection methods used for detecting and solving images and videos based object detection problems. This paper provides detailed information about the different object detection techniques in various environments. Finally, comparisons are made for different object detection methods used in different images and videos environments.

Keywords: Negative image, positive image

#### **IINTRODUCTION**

One of the tasks is analysis and interpretation of visual scenes by computers. Visual scene analysis is a high-level tasks that acquire knowledge from videos or digital images, which comes under the domain of computer vision. Computer vision deals with image data (such as digital images, a sequence of images, multi-view images, etc.) and information to form decisions.

Detection of objects from different scenes is a prime requirement for various computer vision applications. Human visual system is one such example which can easily detect and recognize one class of object from another class of object. Object detection is widely used for automatic analysis of digital data, Human-Computer Interaction (HCI), automated processes, smart vehicles and wild animal detection. Among different researches, applications of object detection are in the domain of car detection, face detection, image retrieval and video surveillance. The main contribution of this paper is for analyzing the different object detection methods in various environments.

The rest of the paper is planned as follows: Section 2 explains the different object detection methods used for various environments. Section 3 presents the comparison of the techniques in literature. Section 4 presents conclusion of this survey.

#### II LITERATURE SURVEY

Fang, Y., et al. [1] discussed a technique to move animal detection by taking benefit of global patterns of pixel motion. In the dataset, where animals make obvious movement against the background, motion vectors of every pixel were estimated by applying optical flow techniques. A coarse segmentation then eliminates most parts of the background via applying a pixel velocity threshold. Using the segmented regions, another threshold was used to filter out negative candidates, which could belong to the background.

Jaskó, G., et al. [2] presented a system capable of detecting different huge sized wild animals from traffic scenes. Visual data was obtained from a camera with monocular color vision. The objective was to analyze the traffic scene image, to locate the regions of interest and to correctly classify them for discovering the animals that were on the road and might cause an accident. A saliency map was generated from the traffic scene image using intensity, color and orientation features. The salient regions of this map were assumed to be regions of interest. A database was compiled from a large number of images containing various four-legged



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WILD ANIMAL DETECTION USING MULTI-CLUSTER FEATURE SELECTION

S. Keerthana, E. Mary shyla

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CrossRef-DOI: https://doi.org/10.26438/ijcse/v6i10.628632

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## WILD ANIMAL DETECTION USING MULTI-CLUSTER FEATURE SELECTION

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Available online at: www.ijcseonline.org

Accepted: 11/Oct/2018, Published: 31/Oct/2018

Abstract- Wild animal detection helps wildlife researchers to analyze and study wild animal habitat and behavior. Discriminative Feature-oriented Dictionary Learning (DFDL) was utilized for learning discriminative features of positive images that have animals present in positive class, in addition of negative images that do not have animals present in that class. But, this approach has low performance for detection of visual wild animals. Hence, in this paper, Multi-Cluster Feature Selection (MCFS) is proposed for unsupervised feature selection and wild animal detection. Those features are chosen, which the multi-cluster structure of the data is well preserved. Based on spectral analysis approaches, the proposed method suggests a principled manner for calculating the correlations among various features without label information. Thus, the proposed technique handles the data with multiple cluster structure. The experimental results show that the proposed approach provides the better results.

Keywords: Dictionary Learning, Multi-Cluster Feature Selection, Wild animal detection, Spectral analysis

#### I. INTRODUCTION

In the field of computer vision, object tracking and detection were used for decades. But, the entire techniques were contained restrictions using the particular circumstances. Moving object detection (Neff, M. G., et al. 2011) in stationary cameras and a constant background were handled easily. An amount of trackers were created based on various techniques, consists of state estimation techniques (Bhat, K. S., et al. 2000) and background modelling approaches (KaewTraKulPong, P., & Bowden, R. 2002). Considered the issue of moving object detection from moving cameras, a technique was the extension of background subtraction (Reilly, V., et al. 2010; Wang, Y., et al. 2012).

Wildlife researchers were analyzing and studying the wild animals and their behavior. Animal detection using sparse representation (Gupta, P., & Verma, G. K. 2017) was presented by DFDL. It was shown a low complexity approach and extracted discriminative class-specific features for detecting the animal. It was obtained class specific dictionaries allowed to represent a new image for discovering of the class of the image. These dictionaries were incapable of representing the samples of other classes. However, this technique has low performance for detection of visual wild animals.

In this paper, MCFS is proposed for unsupervised feature selection and wild animal detection. Those features are chosen such that the multi-cluster structure of the data is preserved. Using spectral analysis techniques, this approach is suggested a principled manner for computing the correlations among various features without label information. So, this approach is handled the data and multiple cluster structure. The corresponding optimization issue is integrated a L1-regularized least squares problem and a sparse eigen-problem, so it is solved.

The remainder of the article is organized as follows: Section 2 describes about the wild animal detection techniques. Section 3 describes about the proposed methods. Section 4 illustrates the performance evaluation of the proposed techniques. Section 5 concludes the research work.

#### II. RELATED WORK

An approach (Fang, Y., et al. 2016) was discussed for detecting an animal by taking benefit of global patterns of pixel motion. By applying a pixel velocity threshold, a coarse segmentation was removed most parts of the background. Based on the segmented regions, another threshold was utilized to filter out negative candidates. Scientists and ecologists (Nguyen, H., et al. 2017) were discussed for monitoring wildlife in an open environment. Leveraging on recent advances in deep learning approaches in computer vision, a framework was proposed to build automated animal recognition in the wild, aiming at an automated wildlife monitoring system. A single-labeled dataset was used from wildlife spotter project, completed by citizen scientists and the deep convolutional neural network

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- [1]. J. Bishop, "The Internet for educating individuals with social impairments," Journal of Computer Assisted Learning, vol. 19, pp. 546-556, 2003.
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Citation

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Paper Type :: Research Paper

Title :: Enhanced Edge Detection Based Support Vector machine towards the Prediction of Lung Cancer

Country :: India

Authors :: P.Dhanalakshmi || Dr.G.Sathyavathy

Page No. :: 51-56

Image Processing is a process of performing operations on an image with an intention of getting an improved image. It is also used to mining to get the hidden information in an image. Edge detection is the method of finding the boundaries of object in the image. Recently image processing techniques are being used in the prediction of diseases, where it helps to increase the classification accuracy. In this paper a novel edge detection method based on least square support vector machines is proposed to detect edges with the target of predicting the lung cancer. This paper uses sensitivity, specificity, accuracy and F1-measure as the metric to measure the performance. The results show that the proposed methods outperforms than other algorithm.

Keywords- Edge Detection, classification, SVM, image processing, accuracy.

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Citation

Abstract

ISSN (e): 2250-3021, ISSN (p): 2278-8719

PP 51-56

#### **Enhanced Edge Detection Based Support Vector machine towards the Prediction of Lung Cancer**

#### P.Dhanalakshmi<sup>T</sup>, Dr.G.Sathyavathy<sup>2</sup>

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**Abstract:** Image Processing is a process of performing operations on an image with an intention of getting an improved image. It is also used to mining to get the hidden information in an image. Edge detection is the method of finding the boundaries of object in the image. Recently image processing techniques are being used in the prediction of diseases, where it helps to increase the classification accuracy. In this paper a novel edge detection method based on least square support vector machines is proposed to detect edges with the target of predicting the lung cancer. This paper uses sensitivity, specificity, accuracy and F1-measure as the metric to measure the performance. The results show that the proposed methods outperforms than other algorithm.

Keywords: Edge Detection, classification, SVM, image processing, accuracy.

#### I. INTRODUCTION

Image Processing is a process of performing operations on an image with an intention of getting an improved image. It is also used to mining to get the hidden information in an image. Image processing is considered as a kind of signal processing, where the input is given an image and output might be image or characteristics/features related to the image. Currently, image processing is getting developed quickly. It frames center research territory inside computer science and software engineering disciplines as well.

The three basic steps of image processing are:

- > Import the image using tools.
- Analyze and manipulate the image.
- > Export the image based on alteration or analysis.

Medical image classification has become more and more important for disease diagnosis and treatment. Through medical image feature extraction and classification, medical images can be distinguished as normal or abnormal. Besides, when doctors visit medical imaging library, they often need to get a certain type of image for narrowing the scope of search, which also requires medical image classification. The conventional medical image classification algorithms are usually based on images' basic features, such as color, texture and shape features. However, these low-level features cannot reflect the underlying information of images well, thus always leads to the Semantic gap problem between low-level features and high-level semantic information. Therefore, the semantic gap problem is one of the biggest challenges for medical image classification.

The need for edge detection in image processing is getting increased in a significant manner. Edge detection is connected to the research areas related to sensing and is utilized to save the critical basic properties, recognition of pattern, image classification and so on. Though there exist multiple proposals in this thrust area, still it doesn't meet the research objective of detecting the edge with increased accuracy. For this problem, this research work utilizes the concept of least square support vector machines to detect edges with the target of predicting the lung cancer.

The rest of the paper is organized as follows: A review of previous related work is presented in Section 2. In Section 3, proposed method is presented with contourlet HMT and LS-SVM Classifier. In Section 4, discusses the dataset and performance metrics used. In Section 5, we describe results by comparing with multiscale non-negative sparse coding [Ruijie Zhang et al.,2017]. Finally, in Section 6, we draw conclusions with future enhancement.

#### II. LITERATURE REVIEW

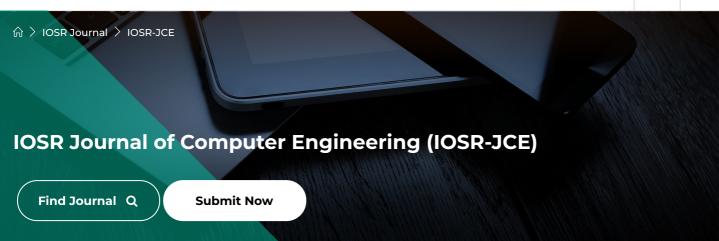
J.Guo et al., 2017 made an analysis on segmentation framework and proposed a fully automatic framework to segment Branch retinal artery occlusion (BRAO) regions based on 3D spectral-domain optical coherence tomography (SD-OCT) images. Kumar et al.,2017 proposed a method for classifying medical images that uses an ensemble of different convolutional neural network (CNN) architectures, where the CNNs were a state-of-the-art image classification technique that learns the optimal image features for a given classification











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## A Study on Mining Financial Time Series Databases in Mutual Equity Funds Using Computing Techniques

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**Abstract:** With the plethora of schemes available in the Indian markets, an investors needs to evaluate and consider various factors before making an investment decision. The present investigation is aimed to examine the performance of safest investment instrument in the security market in the eyes of investors i.e., mutual funds by specially focusing on systematic investment plan in mutual fund schemes. The study of research helps the people and financial analysts to analyze various securities or funds while selecting the best investment alternative out of the galaxy of investment alternatives. Time series analysis in data mining helps to find the market movement in order to find out the comparative analysis report of various funds.

Keywords: Data mining, Forecasting, Portfolio, Time series, Artificial Neural Network, Feature selection.

#### I. Introduction

Apart from the many advantages that investing in mutual funds provides good returns over a period of time and the helps as the best investment option. A Mutual Fund is a pure intermediary that performs a basic function of buying and selling securities on behalf of its unit holders. Mutual Fund is a body corporate which pools up the money from different types of investors and invests those funds on behalf of the investors in diversified securities. In other words, a mutual fund allows an investor to take a position indirectly in a basket of assets. A majority of investors are quite content in simply analyzing the appreciation in the net asset value (NAV) of their investment. They are not much more concerned about the risk associated with the investment alternative. Risk measure mostly deal with the character of a fund's returns and the manner in which these returns have been achieved. The present research will explore the measures of risk and return for the selected mutual fund schemes.

#### II. Objectives Of The Study

The present study aims to achieve the following objectives by considering the main objective as to select the best Equity-Diversified Mutual fund among selected eight funds during the period of study[1]:

• To compare and analyze the Equity-Diversified Mutual Fund schemes of select mutual fund players.

To compare the growth in Equity-Diversified Mutual Fund schemes with Industry average. To find out the best Equity-Diversified Mutual Fund scheme in terms of return over the selected period of study. To suggest the public to improve their return by investment in mutual funds.

The main objective of investment is to get return from investment from the mutual funds. An investor should take following points into consideration to earn good returns. An investor should assess the portfolio risk profile before investing in any fund. To select a fund with good past records of returns which is less volatile. An investor should select a portfolio of three to five funds which are less volatile in nature, and a good track record of consistent returns. For selection of a good fund, investor can compare the return of the fund with the industry average and benchmark indices. The fund which outperforms the both can be selected for investment. Investors should review their portfolio of mutual funds from time to time. Investors should try to keep their investment for a longer period of time so as to ensure that they can beat market volatility. Last but not the least; investor can withdraw funds according to his needs and purpose. The fund house should be professional, with efficient management and administration.

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Keywords: Delay tolerant networks, provenance, store-and-forward, trust, trustworthiness

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Authors :: D.Ananthi
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Email Security has become the forefront of network management and implementation. In distributed environments, electronic mail is the most used network based application. Users able to send e-mail to others, who are connected directly or indirectly to the internet using communications suite, Electronic mail networks have grown in both size and importance in a very short period of time. Electronic mail security describes that the policies and procedures implemented by a network administrator to avoid and keep track of unauthorized access, exploitation, modification, or denial of the network and network resources. Now a day's variety of security mechanisms is implemented. Email security is the collective action used to secure the access and

content of an email account or service. It allows an individual or organization to protect the overall access to one or more email addresses/accounts. This paper delivers two approaches that are used to protect email from unauthenticated access.

**Keywords:** Authentication, Confidentiality, E-mail Security Enhancements, Cryptographic Algorithms (SHA, DSS...)

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Citation

Abstract

Reference

#### Full PDF

Paper Type :: Research Paper

Title :: Prediction of Investment Options using Optimal Decision Tree Algorithm

Country :: India

Authors :: B.Sharmila || Dr.R.Khanchana

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Investment decision is a major issue for every individual. The spectrum of investment is extremely wide. Many investment options are available for the investor. People are not aware of best saving scheme for their investment. This paper deals with information from various domain to suggest the investor best investment option for his investment. The decision

ISSN (e): 2250-3021, ISSN (p): 2278-8719

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## Prediction of Investment Options using Optimal Decision Tree Algorithm

#### B.Sharmila<sup>1</sup>, Dr.R.Khanchana<sup>2</sup>

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Abstract: Investment decision is a major issue for every individual. The spectrum of investment is extremely wide. Many investment options are available for the investor. People are not aware of best saving scheme for their investment. This paper deals with information from various domain to suggest the investor best investment option for his investment. The decision is based upon various parameters of the investor. A refined algorithm helps the investor to make an effective decision for his investment which suits their requirement. Expert's rules and feature reduction technique have been applied to this data set to convert it into an optimal dataset. Decision tree technique is applied to make investment decisions.

Keywords: Data mining, Decision tree, Expert rules, gain ratio, feature reduction.

#### I. Introduction

Investment refers to the commitment of funds at present, in anticipation of some positive rate of return in future. Investment is very important because it helps to grow our money. But, the major in India is lack of awareness. So many investment options like bank deposits, mutual funds, equity, shares, gold, post office investments etc. are available in market but people are not aware of best scheme for their investment. In this study, investment options considered are short term mutual funds (MFS), long term mutual funds (MFL), short term fixed deposits (FDS), long term fixed deposits (FDL), share market (SM), and public provident fund (PPF).

Mutual funds are those funds that are collected from many investors to invest in securities such as stocks, bonds and money markets [4]. They are operated by money managers. One major benefit of mutual funds is that it is suitable for those investors that do not have awareness of market trends but have risk tolerance power. Mutual fund schemes can be classified as short term mutual funds termed as MFS and long term mutual funds termed as MFL. Selection between MFS and MFL depends upon various attributes such as Investment purpose like (income, growth, tax saving) and loan facility requirement because loan facility is generally not available in many MFS schemes.

A fixed deposit is a financial instrument provided mainly by banks [3]. This is beneficial for savings because it gives saving and investment option for short and long period. Fixed deposits can be short term fixed deposits termed in this study as FDS and long term fixed deposits termed as FDL. Tenure of FDS varies from 7, 15 or 45 days to 1.5 year. FDL have tenure more than 1.5 year to 10 years. Some FDL's having tenure of 5 years and above also gives tax rebates to investors.

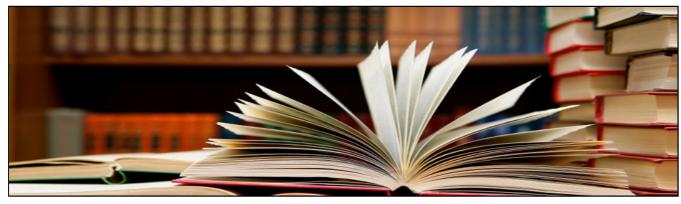
Public Provident Fund termed as PPF is another ideal investment scheme. PPF account is opened for the tenure of 15 years. It gives tax saving benefits to the investors. Another benefit of PPF is safe deposits and loan facility available against your deposits.

#### **II. Data Mining Techniques**

Data Mining H. Trevor, T. Robert, and F. Jerome[1] Data mining is useful to discover new patterns from the present data by using different algorithms that have been already purposed. Comparison of different tools of data mining is done by Nguyen Thai Nghe, P. Janecek, and P. Haddawy,[1]. They have suggested WEKA the best tool for data mining. Because of its computational speed and support to large datasets[2]. Data mining is helpful to analyze the representation of data which is used to discover new and better findings. A large dataset is analyzed using various data mining tools such as text mining tools, traditional data mining, and dashboards to find the relationship among data. The job of data mining is not just to collect and manage the records; it focuses mainly on new discoveries. Data mining uses many arguments to make evaluations. Some mostly used are:

Sequence: Second argument used in data mining is Sequence it refers to the order of events in which they occur.





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## Multimodal Feature Selection using Invasive Weed Optimization and Improved BAT for high dimensional Imbalanced datasets

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#### **Abstract**

Real world optimization problems demand multiple optima within a search space. Feature selection is a combinatorial high dimensional optimization problem in which alternative optimal solutions could be provided. Multimodal optimization in contrast to unimodal optimization aims at providing multiple optima in a single run. This paper uses a multimodal optimization technique to discover solutions. A two phase optimization technique is proposed in which nature inspired Invasive weed optimization (IWO) is used to create sub population and metaheuristic BAT algorithm is enhanced to find optimal solutions in each sub population. Performance of the proposed method Invasive Weed optimization\_Improved BAT is experimentally verified on three high dimensional datasets.

**Keywords:** Multimodal optimization, feature selection, BAT algorithm, Invasive Weed Optimization, multiple optima, high dimension, Imbalanced datasets.

#### INTRODUCTION

Complex real world optimization problems can be solved by evolutionary algorithms which are stochastic in nature [1]. High dimensional dataset includes redundant and irrelevant features for the classification process. This slows down the learning phase and tends to overfit the training data. Dimensionality reduction is one of the basic steps in preprocessing. It can be done via feature selection or feature extraction. Feature selection aims at finding relevant subset of features that describes the target. The selected subset of features from the whole feature space does not affect the accuracy of classifier. Feature selection methods are categorized into filter, wrapper, embedded and hybrid methods. Filter methods are independent of the classifier it relies only on the intrinsic properties of the data to select the features. These approaches uses measures like distance, dependency or consistency to choose the features then trains the classifier with training data and tests the classifier with test data. In [2] feature selection is carried out using a filter method in which distance measure weighs each feature based on relevancy with the target class. Pang et al. used mutual information as a measure to identify the feature relevancy and to identify feature redundancy mutual exclusive is used [3]. Wrapper method uses a learning algorithm for subset evaluation followed with the classifier to learn from the training data and tested with the test data. Dy & Brodley introduced a wrapper based approach for unsupervised learning by recognizing the number of clusters in the data with expectation maximization clustering algorithm using maximum likelihood criterion [4]. Embedded method embeds the feature selection procedure into the learning algorithm. Hybrid method is a combination of both filter and wrapper method to select the feature subsets. In hybrid methods, the features are reduced using the filter method and then wrapper method is applied on the reduced set to choose the features. This proposed work uses a wrapper approach in which SVM classifier is used as a predictor and selected feature subsets are evaluated using K-Nearest Neighbor, Neural Network and Support Vector Machines.

Evolutionary algorithms with their population based structure could be a suitable method for finding the feature subsets in a reasonable time. Evolutionary algorithms perform well for finding single solution but fail to provide multiple solutions [5]. When there is more than one optimal solution for a single objective optimization problem then it is called as multimodal optimization problem. The main drawback in Evolutionary algorithms is that their populations converge to its best found solution [6]. This could be avoided by controlling the diversity of population. Niching methods incorporated with evolutionary algorithms can be applied to multimodal optimization problems. Niching methods help in forming sub population within a population and they aim at finding multiple optimal solutions within each sub population which result in multiple optima in a single run. They achieve this by forming a neighborhood structure around the optima. Many niching techniques had been used with evolutionary

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#### C. Support Vector Machines

In machine learning, support vector machines (SVMs), also support vector networks are supervised learning models with associated learning algorithms that analyze data and recognize patterns, used for classification and regression analysis. The basic SVM takes a set of input data and predicts, for each given input, which of two possible classes forms the output. making it a non-probabilistic binary linear classifier [4].

#### VI. CONCLUSION

This paper provides a review of machine learning approaches and classification. An analysis of feature selection methods and classification algorithms were presented. E-Mail classification required more works and efforts are required to improve the performance and accuracy of the process. New methods and solutions are required for useful knowledge from the increasing volume of electronics documents.

Spam emails are the biggest problem for the web data. This paper explored different approaches to deal with this problem. From all of these approaches no one can provide 100% result. Some of the approaches provide high false positive rates and false negative rates. There is very much scope for identifying mail as spam emails or legitimate mails for text as well as multimedia messages.

To detect suspicious criminal activities is a new active area of text mining. Automatic classification and analysis techniques are needed for detection of suspicious criminal activities on E-mails.

Phishing attack is one of the serious threats of network which stole the user's secret or confidential information. In this paper, we study different types of anti-phishing techniques. In future work, develop such technique which can detect such serious threat accurately and reduces the memory overhead together with decrease the false positive rate.

The problem of authorship attribution is explored well in the area of literature, newspapers etc but limited work has been done for the authorship identification of online messages like blogs, emails and chat.

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International Journal of Theoretical & Applied Sciences. Special Issue 10(1a): 44-48(2018) International Conference on e-SMAC-2018

ISSN No. (Print): 0975-1718 ISSN No. (Online): 2249-3247

#### A Study of Attacks. Security Mechanisms in Wireless Sensor Networks

#### K. Sutha<sup>1</sup> and S. Srividhya<sup>2</sup>

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ABSTRACT: This paper presents the review of the existing privacy techniques in Wireless Sensor Network. (WSN) can be used to monitor either physical or environmental conditions like temperature, sound pressure etc. Privacy of individuals is of very high demand as the popularity of wireless sensor network increase. This paper presents two main parts of WSN that are Types of Attacks and Security Mechanisms. This paper aims to study of security goals, attacks, security mechanisms to handle privacy issues.

#### I. INTRODUCTION

Most sensor networks actively monitor their surroundings, and its often easy to deduce information other than the data monitored. Security is critical for such networks deployed in hostile environments. Wireless sensor networks have many applications in military, homeland security and other areas. These factors demands Security mechanism for sensor networks at design time to make sure operation safety. secrecy of sensitive data, and privacy for People those who are using sensor networks. One of the major challenges in wireless sensor networks face today is security. While the deployment of sensor nodes in an unattended environment makes the networks vulnerable to a variety of potential attacks, the inherent power and memory limitations of sensor nodes makes conventional security solutions unfeasible. Hence security is a crucial issue. Many techniques have been implemented for the privacy preservation in WSN such as; cryptographic security method, k-anonymity . But these techniques were used to protect the information when it flows from one node to another node. A large number of attacks have been possible in WSN. This includes Sybil attacks, Traffic analysis attacks, physical attacks. Dos attacks. This paper includes a survey of attacks and security mechanism to handle attacks and challenges in Wireless Sensor Networks.

Some important security dependent applications include:

- · Disasters: In many disaster scenarios, especially those encouraged by terrorist activities, it may be necessary to protect the location of casualties from unauthorized disclosure.
- · Public Safety: In applications where chemical, biological or other environmental threats are monitored, it is vital that the availability of the network is never threatened. Attacks causing false alarms may lead to panic responses or even worse total disregard for the signals.
- Home Healthcare: In such applications, privacy protection is essential. Only authorized users should be

able to query and monitor the network. The major contribution of this paper includes classification of security attacks, security mechanisms and challenges in Wireless Sensor Networks [2].

#### II. SECURITY GOALS FOR WIRELESS SENSOR NETWORKS

A sensor network is a special type of Ad-hoc network. So it shares some common information or property as computer networks. There are some security mechanisms and requirements to implemented in WSN. Those requirements are considered as security goals. Security goals are splitted in to two types. They are Primary and Secondary goals. The primary goals are known as standard security goals such as Confidentiality, Integrity, Authentication and Availability (CIAA). The secondary goals are Data Freshness, Self Organization, Time Synchronization and Secure Localization [4].

#### PRIMARY GOALS

#### A. Data Confidenteiality

Data confidentiality is the most important issue in network security. In sensor networks, confidentiality relates to the following: A sensor network should not leak sensor readings to its neighbors. Confidentiality is the ability to conceal messages from a passive attacker so that any message

communicated via the sensor network remains

confidential

B. Data Integrity Data integrity in sensor networks is needed to ensure the reliability of the data and refers to the ability to confirm that a message has not been tampered, altered or damaged. The integrity of the network will be in trouble when:

- · A malicious node present in the network injects
- · Unstable conditions due to wireless channel cause damage or loss of data.
- C. Data Authentication

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broad-band power spectrum and random behavior. The chaotic system is high sensitive to the initial condition and could be a high complicated nonlinear dynamic system. The chaotic sequence is unpredictable and extreme sensitivity to initial conditions..............

**Keywords-** Chaotic encryption, DCT, LSB, image encryption, quantization.

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Citation

Abstract

Reference

#### Full PDF

Paper Type :: Research Paper

Title :: Comprehensive Evaluation of Clustering Algorithms In Binary and Multi-Class Attributes

Country :: India

Authors :: Ms. S. Saranya || Dr.S.Sasikala || Ms.P.Deepika || Mr. Jaikishen J Kamath || Mr.S.Muthukrishnan

Page No. :: 69-76

Clustering is the task of dividing the population or data points into a number of groups such that data points in the same groups or some similar to the other data points in the similar group than those in other groups. In this paper four clustering algorithm are described Expectation—maximization (EM) algorithm, Hierarchical algorithm, Density based algorithm, simple k-means algorithm. These algorithms were implemented in two different dataset. The data set were divide the entire dataset under different labels with similar data points into one cluster. The dataming algorithms are compared in the clustering data using weka tool

Keywords - Data mining, clustering algorithm, simple K-means algorithms, Hierarchical clustering, Density based algorithm.

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Citation

Abstract

Reference

Full PDF

Paper Type

:: Research Paper

Title :: A Survey Of Collaborative Black Hole Attack And Non- Collaborative Black Hole Attack In Wireless

Sensor Networks

Country :: India

Authors :: K. Sutha | S. Srividhya

Page No. :: 77-82

Wireless Sensor Networks (WSN) is a trending technology now-a-days and has a wide range of applications such as battlefield surveillance, traffic surveillance, forest fire detection, flood detection etc. The many researchers have conducted different detection techniques and algorithms to proposed different types of detection schemes. But wireless sensor networks are susceptible to a variety of potential attacks which obstructs the normal operation of the network. The blackhole nodes will launch black hole attack to conserve its resource or to perform attacks that reduce the network. In this paper, survey the existing solutions and discuss the stateof- the-art routing methods. In this paper analysis the different type black hole attacks detection techniques in addition conceive the open issues and future trends of black hole detection and prevention in WSN based on the survey results of this paper.

Keywords: Mobile Ad-hoc networks, Blackhole attacks, machine learning, pre-processing, classification

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#### Citation

Abstract

Reference

#### Full PDF

Paper Type :: Research Paper

Title :: A Survey of Feature Extraction and Feature engineering In Data Mining

Country :: India

Authors :: Nithya C | Saravanan V

Page No. :: 83-87

Data mining is the process of discovering interesting knowledge patterns from large amount of data stored in database. It is an essential process where the intelligent techniques (i.e., machine learning, artificial intelligence, etc.) are used to extract the data patterns (i.e., features). The aim of data mining process is to extract the useful information from dataset and transform it into understandable structure for future use. Feature extraction is the process of extracting the relevant features from large database for dimensionality reduction. Feature extraction is a key process to reduce the dimensionality of medical dataset for efficient disease prediction. The feature extraction technique removes irrelevant features to acquire higher prediction accuracy during disease diagnosis

Keywords- Data Mining, Feature Extraction, Machine Learning, Feature Engineering.

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Citation

Abstract

Reference

ISSN (e): 2250-3021, ISSN (p): 2278-8719

PP 77-82

### A Survey Of Collaborative Black Hole Attack And Non-Collaborative Black Hole Attack In Wireless Sensor Networks

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Abstract: Wireless Sensor Networks (WSN) is a trending technology now-a-days and has a wide range of applications such as battlefield surveillance, traffic surveillance, forest fire detection, flood detection etc. The many researchers have conducted different detection techniques and algorithms to proposed different types of detection schemes. But wireless sensor networks are susceptible to a variety of potential attacks which obstructs the normal operation of the network. The blackhole nodes will launch black hole attack to conserve its resource or to perform attacks that reduce the network. In this paper, survey the existing solutions and discuss the state-of-the-art routing methods. In this paper analysis the different type black hole attacks detection techniques in addition conceive the open issues and future trends of black hole detection and prevention in WSN based on the survey results of this paper.

Keywords: Mobile Ad-hoc networks, Blackhole attacks, machine learning, pre-processing, classification

### I. Introduction

A Wireless Sensor Network (WSN) consists of large number of sensor nodes working in cooperation manner to gather the information from the monitoring region. Generally, WSN have little or no infrastructure. There are two types of WSNs: structured and unstructured. In unstructured WSN there are huge numbers of nodes deployed randomly to monitor the region. Due to unavailability of physical presence on the region, network maintenance activities are difficult. In a structured WSN, all the nodes are deployed in fixed and planned manner. Positive point of a structured network is that fewer nodes can be deployed and requires fewer maintenance and management cost. In a WSN the object performing task of sensing is called a sensor. Sensor nodes are low power devices equipped with one or more sensors, processor, memory, power supply, a radio, and an actuator. A variety of mechanical power, thermal sensor, biological, chemical, optical sensor, and magnetic sensors can be attached to enhance the power of sensor nodes. Since the sensor nodes have limited memory and are deployed in harsh environment and in difficult locations, radio transmitter is implemented to transfer the collected data to base station. WSNs have many applications such as military target tracking and surveillance, disaster relief, health monitoring, environment exploration seismic sensing to measure the environment.

A WSN is assortment of numbers of sensing element nodes that area unit distributed in atmosphere. It's really a special variety of Ad-hoc network. The key feature of WSN includes its use things because it is self-organizing and self-maintaining. As a result of infrastructure less atmosphere and wireless nature of WSN, they're a lot of suffering from many varieties of security attacks.

There are many varieties of attacks is done by malicious nodes to break the network and build that network unreliable for communication and proper working. a number of such types of attacks are:

- Wormhole Attack: in wormhole attack, assailant records packets at one place and tunnels those to a different place in network. Due to this it creates False situation that main sender is neighbor of remote location.
- Tempering: Its tempers hardware configuration of sensor and gain physical access for creating node as somebody node. Tempering is done at physical layer.
- Jamming: This attack is expounded with trouble making or interfering radio frequencies that are employed by sensor nodes. By gating physical access of some node's assailant will produce jam in network to disturb the network.
- Sybil Attack: In Sybil attack a malicious node illegally take multiple identities. Throughout this, a someone can
  appear in multiple places at the same time. A node presents multiple identities to completely different nodes in
  network by stealing or fabricating the identities of authenticated nodes. This attack is completed on network layer.
- Hello Flood Attack: Its uses hello packets as a weapon to persuade the sensors in WSN. During this attack an
  assailant have high radio transmission range and process power. They send hello packets to number of sensor nodes
  that are in a massive space among a WSN.

Wireless Sensor Network is used in various applications like to monitor physical environmental conditions, battlefield applications. So, we require security over these networks. There are some threats to these





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It is an International Journal of Advance Research in Science and Engineering in English published monthly. IJARSE will cater to needs of all those researchers and academicians looking forward to contribute through their knowledge, skills and abilities in the field of engineering & science for International Journal. To begin with, in order to comprehend the significance of engineering & science and its serious contributions, we will have to look back in the past and dig histories. In modern society, we are constantly interacting with our environment. We harvest and extract all the resources that we need to sustain human life and culture human empires. It is the role of the engineers & scientist, however, to minimize the effects of damage on the surrounding ecosystems, and design necessary infrastructures that are both efficient and safe. Structures and processes engineers implement fall into four main categories: sustainability, safety, cleanliness, and connection.

This International Journal of Advance Research in Science and Engineering is not limited to a mentioned scope of science and engineering but is instead devoted to a very wide range of subfields in the engineering sciences. While it encourages a broad spectrum of contribution in the engineering sciences, its core interest lies in issues concerning material modeling and response.

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Volume No.07, Issue No.03, March 2018 www.ijarse.com



### A SURVEY ON SIMULTATION TOOLS

### Mrs.S.Geethamani<sup>1</sup>, Ms.S.Tharani<sup>2</sup>, Mrs.S.Saranya<sup>3</sup>

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#### ABSTRACT

Cloud computing is the trendy topic all over the world. As there are so much service providers of the cloud are available in the competitive world. A decision has to be taken that which service provider's services are more advantageous to the organization.

The conceptual cost for buying the services of different services providers may lead to increase in budget or wastage of money and time. So the solution to this problem is trying out the simulation tools. These tools may include the different algorithms used by

Different service providers. The use of simulation tools leads to decrease in overall conceptual or operational cost of the organizations. There are different simulation tools available in the market. This paper enlists some of the simulation tools used for the purpose of simulation and modeling.

Keywords: Cloud Computing, Simulation Tools, Comparison between simulation tools, Services of Cloud Computing,

Components of Cloud Computing

### **I.INTRODUCTION**

Cloud computing is the term related to the network. Cloud computing refers to hardware and software services are provides overthe Internet. Cloud refers to the model, where user can have access to the shared pool of resources such as database servers,

Applications or storage over the network. This reduces the overall cost to establish an organization and maintenance burden of the

Different resources. These resources are managed by the service providers. The organization that wants to access these resourcesjust have to pay some little amount to the service providers. This amount is very lesser as compared to purchasing of each resource.

People, today, are shifting from traditional computing towards cloud as it provides higher reliability, fault tolerance, broad networkaccess, on demand usage etc

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[5]. Nidhi Mishra, Dr. C.K. Jha, "Classification of Opinion Mining Techniques", International Journal of Computer Applications, Volume 56, No.13, October 2012.

Citation

Abstract

Reference

### Full PDF

Paper Type :: Research Paper Title :: **Neural Networks** 

Country :: India

Authors :: A.C. Sounthararaj | Dhanya.V. A | Deepika. G. Krishnan

Page No. :: 70-77

Keywords- Neural networks, computing, artificial intelligence (AI)

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Paper Type :: Research Paper

Title :: Survey on Internet of Things the Smart Home Technology

Country :: India

Authors :: Rogini.K || Vageetha begum.R || Ms.S.Tharani

Page No. :: 78-79

Home technology started for more than a decade to introduce the concept of networking devices and equipment in the house. In Association the best definition of smart home technology is: the integration of technology, services through home networking for a better quality of living. It used devices connected to the IOT to automate and monitor in home systems. Tools are used in computer systems can also be integrated in Smart Home Systems.

Keywords- Home networking, Internet of things(IOT), smart home.

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ISSN (e): 2250-3021, ISSN (p): 2278-8719

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## Survey on Internet of Things the Smart Home Technology

## Rogini.K<sup>1</sup>, Vageetha begum.R<sup>2</sup>, Ms.S.Tharani<sup>3</sup>

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**Abstract:-** Home technology started for more than a decade to introduce the concept of networking devices and equipment in the house. In Association the best definition of smart home technology is: the integration of technology, services through home networking for a better quality of living. It used devices connected to the IOT to automate and monitor in home systems. Tools are used in computer systems can also be integrated in Smart Home Systems.

**Keywords:-** Home networking, Internet of things(IOT), smart home.

#### I. Introduction

Smart home technology is a device. It is connected by using internet to monitor in home system. It was developed by IBM and it is consumer between 1998 & 2000. It is used to monitor and control home devices such as light, fan, airconditioner and other current devices. It is very useful for aged people, physically challenged people. It is easily identified the strangers. In smart homes we are using different types of technology that is used for people to identify our home is secure. It saves our energy as well as electric. It is used to create smart cities. It is similar to smart home. It is more efficient to the cities and save money and energy.

### **II. Smart Home Technology**

Smart Home is the term commonly reffered as home automation. It is used to control and manage the devices in home. It is completely based on sensors. It will control light, climate and other appliance. Alarm system is very useful in smart home systems. some smart devices will be used to connect another device. Generally, it will connected to the network such as Bluetooth, wifi, 2G, 3G, etc..

It consist of hardware and software to control the devices in home. It will monitor the systemfrom hacking. It has many advantages by using these technologies. Its very useful in present as well as in future



Smart Home Technologies

### IV. Advantages Of Smart Home Technology

It has many security systems such as camera, sensors...it will send a link to the police station, hospital or some other places when emergency occur.

- ❖ It will control lights,doors,telephone& computers.
- ❖ By investing these technology it will increase the market value.
- \* It is more convenience, security, accessibility, efficiency & resale.





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# A STUDY ON GREEN COMPUTING -IT BUILDING BLOCKS

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### **ABSTRACT**

"Green Computing or green IT refers to idea where the IT organizations should implement and practice environment friendly network". It is also defined as the study of designing, manufacturing, disposing computer efficiently with minimal impact on environment. The goal of it is to reduce the hazardous effect to environment by bio-degradability and maximize energy efficiency. The three building blocks to green IT include EPP, Trends in Green ICT, IT innovations and achieving efficiency. It is using the real life energy to make a computer system work which will not harm the environment. The advantage of green IT reduced carbon emission increased cooling efficiency, reduced energy costs, cost savings, financial performance, and positive publicity. Some of the steps followed in Green IT so far were measure of the server power, share power cost in internal allocating owners, server and storage virtualization, cloud computing. Research continues into key areas such as making the use of computers as energy-efficient as possible and systems for efficiency-related computer technologies

# Keywords: Green IT, green computing, EPP, energy efficient, cost saving, Eco-kernel, OpenMp, Meter

### **I.INTRODUCTION**

Green computing refers to environmentally sustainable computing. It is also defined as "the study of manufacturing and designing the computers with minimal or no impact to the environment. In 1992, the energy save logo launched by the U.S Environmental protection Agency that is designed to promote and recognize energy efficiency later Swedish introduced TCO for the CRT based monitors but then it was a failure due to the usage of hazardous material while construction. Later government organizations took an initiative to follow regulations which reduces the hazardous effect due to the construction.

### A. Approaches

Green computing can also develop solutions that offer benefits by aligning IT processes and practices with core principles of sustainability, which are to reduce, reuse and recycle and finding innovative ways to use IT in business processes to deliver sustainability benefits across the enterprise and beyond. Energy efficient data center design should help to better utilize a data center's space and increase performance and efficiency.



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Vol- 5, Issue- 4, Pub Month- October - December 2018 (archive.php?vol=5&issue=4)

# ENHANCED SECURITY APPROACH FOR MANET ROUTING USING EOLSR

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Abstract: The Network called MANET (Mobile Ad-hoc Networks) which is designed for a special application, where it is not easy to use as a backbone network. The applications in the MANET are involved with sensitive and secrete information. For the major problem routing and security, the MANET assumes a trusted environment. In MANET, the pro active routing protocol called OLSR (Optimized Link State Routing) vulnerabilities is examined. It is analyzed with the variety of routing and that can be initiated in OLSR. Analyzing the attack, the system proposed a mechanism to secure the OLSR protocol from specific routing attack known as Packet Dropping Attack. To overcome this drawback there proposed a new approach called EOLSR (Enhanced Optimized Link State Routing). The key concept of EOLSR is the use of MULTI\_PACKET\_RELAYS to provide efficient flooding mechanism by reducing the number of transmissions required. MPR announce this information periodically in their control messages. A HELLO\_MESSAGE is the message that is used for neighbor sensing and MPR selection. The HELLO message is generated by each node periodically (every HELLO INTERVAL) in OLSR. The one-hop neighbors list and its address are contained by the node's HELLO message. The route calculation is performed by the TC message. Frequently (every TC INTERVAL) the TC message is promoted through each MPR node in OLSR.

IndexTerms - MANET (Mobile Ad-hoc Networks), OLSR (Optimized Link State Routing), Packet Dropping Attack, security, HELLO\_MESSAGE.

#### I. INTRODUCTION

Early research works assumed a friendly and co-operative environment and recognition on problem inclusive of simple routing, multihop routing and wi-fi channel get right of entry to. Now, safety has come to be a primary difficulty to provide secure, blanketed verbal exchange among nodes in probably adverse surroundings. Moreover, precise function of MANETs presents a brand new set of security demanding situations. Several researchers intention at securing the routing messages of present routing protocols together with AODV and DSR etc. And they proposed solutions based totally on cryptographic mechanisms to make routing protocol at ease, but, this mechanism require a key management provider to preserve music of key and node binding. Also it wishes a trusted entity known as the certificates authority (CA) to difficulty public key certificate for each node inside the network. This is "tough safety" mechanisms and too pricey for MANETs. As a end result, it have been prompted to increase a trust based totally secure routing protocol for MANETs. The objective of carried out studies work is to advocate routing protocols and strategies for comfortable course discovery and preserve it through preventing unique attacks, hence making sure the switch of information packets over the community correctly. In element the goals may be laid down as underneath.

The remainder of the paper is organized as follows: Section 2 describes the Literature survey on techniques related paintings which include, Section 3 presents the proposed techniques with their operations and contributions of this thesis, Section 4 presents the experimental assessment the usage of simulation results that shows, Section 5 deals with the conclusion of the thesis with the future paintings.

### II. RELATED WORK

There exists many related techniques in security over MANET Each of these techniques follows some sort of security principles, among few performs nearly equivalent to the proposed framework is described as follows

Authors Bhagyashree S and Prof. Anand S Uppar says that Security is one of the most essential issues that have attracted a number of research and development effort in past few years. In multi-hop wireless advert hoc community link error and malicious packet losing are assets for packet losses. Whether the losses are due to link mistakes only, or with the aid of the mixed effect of link errors and malicious drop are to be diagnosed, can be known by means of staring at a series of packet losses in the network. But in the insider-assault case, wherein malicious nodes which are part of the direction take advantage of their know-how of the conversation context to selectively drop a small amount of packets crucial to the community performance.

Authors Baruch Awerbuch, Reza Curtmola, David Holmer, Cristina Nita-Rotaru y and Herbert Rubens says that not unusual method utilized by routing protocols for ad hoc wireless networks is to set up the routing paths on-call for, in place of always retaining a whole routing table. Since in an advert hoc community nodes no longer in direct variety talk via intermediate nodes, a sizeable subject is the potential to path in the presence of Byzantine failures which include nodes that drop, fabricate,

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### A NOVEL METHOD FOR TRANSFORMED DATA LEAK DETECTION AND PREVENTION IN DISTRIBUTED HETEROGENEOUS DATA SHARING NETWORKS

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# A NOVEL METHOD FOR TRANSFORMED DATA LEAK DETECTION AND PREVENTION IN DISTRIBUTED HETEROGENEOUS DATA SHARING NETWORKS

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Abstract: In the recent years Data Leakage Detection as a main problem in distributed network, which has heterogeneous users. The increasing ability to trail and collect large amounts of data with the use of technology has lead to an interest in the development of data protection algorithms, which helps to preserve user sensitive data's in the distributed environment. There are several Data Leakage Detection and Data Leakage Prevention techniques have initiated for securing and protecting data's. A recently proposed technique addresses the issue of data leakage in transferred data's by sampling and matching techniques. However, the method can only perform detection part within the application level. There is several other ways to leak the transferred data within the host rather than the application. The proposed method designed and developed a Host Data Scrutinizer framework for distribution data security, which have developed in an email server for reconstruction secure email transfers. This includes different types of algorithms to detect and prevent data leaks either partially or fully. This is more effective than the currently available method in terms of the level of information loss.

The proposed approach performs prediction and probability finding in order to identify and protect data from leakers. The experimental result shows the effective results on the distributed data in email security.

IndexTerms - Information Security, Data Leakage Detection, Data Leakage Prevention, Data Scrutinizer.

#### I. Introduction

Protection of confidential data [1] from being leaking to the public is a growing concern among organizations and individuals. Managing Security and reduce the risk is very vital in todays fast running world [10]. Traditionally, confidentiality is preserved using security procedures such as information security policies along with conventional security mechanisms such as Firewalls, Virtual Private Networks and Intrusion Detection Systems [2][3]. Unfortunately, these mechanisms lack pro-activeness and dedication towards protecting confidential data and they required predefined rules. This can result in serious consequences, as confidential data can appear in different forms in different leaking channels [4]. Therefore, there has been an urge to mitigate these drawbacks using mechanisms that are more efficient. Data Leakage Prevention Systems (DLPSs) is dedicated mechanisms to detect and prevent the leakage of confidential data in use, in transit and at rest [5]. DLPSs use different techniques to analyze the content and the context of confidential data to detect and prevent the leakage. Although DLPSs are increasingly being designed and developed as standalone products by IT security vendors and researchers, the term still ambiguous. In this paper, a Data Leakage Detection and Data Leakage Prevention scheme for email security is proposed. This paper explicitly defines proposed DLP in the distributed heterogeneous data sharing networks. Nowadays data publishing is a common process. However, the issue of data sharing is difficult when the data is more sensitive and secure. Sometimes sensitive data may leaked and found in unauthorized places, so every data needs more concern when the data is distributed among the multi-party. The data should be safe and secure from unauthorized users. Data distributor affected a lot because of the data leakage problem. Some simple and recent research and news show the authorized users have shared the secret data with some other unauthorized users. Therefore, improving the privacy and identifying the data leaker with proof is the main aim of the proposed system. For example, a company may have partnerships with other companies that require sharing customer data. In addition, an algorithm has presented for distributing objects to agents, in a way that improves the chances of identifying a leaker. The Objective of the current proposal is to achieve a complete data security and applying for rule-based data protection from data leakage in the distributed environment. The proposed system aims at protecting the data against an adversary who has the knowledge and partial rights of at most m items in a specific transaction and also provide a cost-effective non-cryptographic data protection against private data- sharing and rulebased data leakage protection and leaker detection.

Protecting owner information is also an important goal, which performed by designing an effective algorithms to ensure better protection against data disclosure. The proposed system also aims at developing a new method, which has the ability to detect and prevent partial or full data leakage in the email server. Another goal is to detect when the distributor transmits a sensitive data, a user may leak the data using other applications. In this case, the detection of partial or full leaked data will be more helpful. The proposed system aims to detect the leaker when they try to leak the whole or a part of file of the owners. Maximize the chances of detecting a guilty agent that leaks all his data objects by applying the prediction strategies.

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Authors :: K.Vinitha | Dr. S.Preetha

Page No. :: 66-69

Keywords- Project Scheduling, Planning, Controlling, Project management, Software project.

- [1]. Survey paper for Software Project Scheduling and Staffing Problem NANDKISHOR PATIL1, KEDAR SAWANT2, PRATIK WARADE3, YOGESH SHINDE4 BE IT, SAE, Pune, India1, 2, 3,
- [2]. A Review of various Software Project Scheduling techniques Ramandeep Kaur M-Phil Student, Guru Kashi University, Talwandi Sabo(Punjab) Gillraman532
- [3]. A Brief Review on Integrated Planning of the Project Scheduling and Material Procurement Problem Babak H Tabrizi\* Department of Industrial Engineering, University of Tehran, Iran
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Paper Type :: Research Paper

Title :: Role of Data Mining in Cyber Security

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Authors :: T.Nandhini || C.Rangarajan

Page No. :: 70-74

Data mining is becoming a invasive knowledge in activities as varied as using historical data to forecast the success of a marketing process looking for patterns in monetary contact to discover banned activities or analyzing genome sequences From this perception it was just a material of time for the control to reach the important area of computer safety This book presents a collection of investigate efforts on the use of data mining in computer safety.

Keywords - Scan Detection; Virus exposure; Anomaly disclosure; Shelter

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Citation

PP 66-69

# A Survey on Efficient Project Management and Scheduling in Software Testing

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Abstract: Project scheduling plays an important role in research field. Project scheduling has raised noticeable attention within the last decades as a widely used discipline, applicable to many different real world areas. Software project scheduling is one of the most important scheduling areas faced by software project management team. Both software engineering and software management are very necessary for a successful project. To complete the software project within a listed time limit, allocate a start and end date that determine the milestones and outcomes of the tasks, determine which tasks are depend on another task to complete its operation, save time, build consistency, enhance visibility scheduling is very essential. Several software project management resources and schedule estimation methods have been developed. In this paper, we will make a review of some of these software project scheduling techniques which are used recently and are helpful in handling the various type of scheduling used in software projects and the project management.

Keywords: Project Scheduling, Planning, Controlling, Project management, Software project.

#### I. Introduction

Project scheduling has higher perceptible attention within the last decades as a widely used discipline, applicable to many different real world areas. The resource scarceness to carry out a project yielded to the resource constrained project scheduling problem advent, taken into account as an interesting research topic [3]. Project scheduling in the project it refers to the roadmap of all the activities to be done with the specified order and within time slot allotted to each activity. Project managers tend to define the various tasks and project milestones and they arrange the keeping various factors in mind. They look for the tasks lie in the critical path in the schedule, which are necessary to complete in specific manner and strictly within the time allocated Arrangement of the task which lies out of critical path are less likely to impact over all schedule of the project.

### **II. Project Scheduling Process**

Project scheduling involves splitting the total work involved in a project into separating activities and judging the time required to complete these activities. Managers must also estimate the resources needed to complete each task. Software project scheduling consists of many benefits like: Uncover problems, save time, build consistency, enhance visibility, fix problem etc. The project scheduling is usually represented as a set of charts showing the work breakdown structure, activities dependencies and staff allocation. There are many software project scheduling techniques which are given below[2]:

- Work Breakdown Structure
- Activity Charts
- Project Evaluation Review Technique (PERT)
- Gantt Chart
- Critical Path method (CPM)





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தொகுதி - 1

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முனைவர் மா. சதாசிவம் த்ருமத் ம. அனிதா முனைவர் இர. செந்தீல்றாணி முனைவர் வே. சசிகளா

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# வாழ்வியல் அறங்கள்

முனைவர் வெ.நிர்மலா

தமிழ்த்துறைத்தலைவர், ஸ்ரீ இராமகிருஷ்ணா மகளிர் கலை அறிவியல் கல்லூரி, கோவை



முன்னுரை

தமிழ் இலக்கியங்களின் உயிர் நாடியாகத்திகழ்வது அநம். சான்நோர்கள் உலகமே கிடைத்தாலும் தான் மட்டும் வாழாது தன்னைச் சார்ந்தவர்களையும் உயர்த்தி வாழச்செய்ய வேண்டும் என்னும் நூக்கினைக் கொண்டு வாழ்ந்தனர். தன்னலமின்றி பொது நலம் பேணுவதே சிறந்த வாழ்வியல் அமாகும்.

"நல்லது செய்தல் ஆற்றீர் ஆயினும்

அல்லது செய்தல் ஓம்புமின்"

(Lypub-115)

என்னும் பாடலில் நல்லது செய்யாவிட்டாலும் தீமை செய்யாமல் வாழ்வதே சிறந்த அறம் என்பதை

### வேளாண் அறம்

தொடக்ககால தமிழ்ச் சமுதாயம் உழவின் மேன்மையை எடுத்துரைக்கிறது. உழவர்கள் கணக்குப் பார்த்தால் நாழி உழக்கு கூட மிஞ்சாது. உழுதல், உரமிடுதல், களைபறித்தல், நீர்ப்பாய்ச்சல், காத்தல் ஆகிய அனைத்து வேலைகளையும் சிரமம் பாராது செய்ய வேண்டும்.

"குளம் தொட்டுக்கோடு பதித்து, வழி சீத்து உளம் தொட்டு உழுவயல் ஆக்கி-வளம் தொட்டுப் பாகுபடும் கிணற்றோடு என்று இவ்வைம்பால் படுத்தால்

ஏகும் சொர்க்கத்து இனிது"

(சிறுபஞ்சமூலம்-64)

பெரிய ஆழமான குளம் தோண்டுதல்,மரக்கிளைகளை நிலத்தில் நடுதல்,மக்கள் நடப்பதற்கான வழிகளை செப்பனிடுதல்,தரிக நிலத்தை நன்செய் நிலமாக்குவதோடு செழிப்புள்ள நிலமாக்கு தல், கிணறுகளைத் தோண்டு தல் இந்த ஐந்து அறநெறிகளை செய்தவன் இனிய சொர்க்கத்தை அடைவான்.

### போர் அநம்

அரசர்கள் இருவர் தம்முள் மாறுபாடு கொண்டு போரிடுவது. போரில் வீரமரணம் எய்திய உடலை வாளால் வெட்டி அடக்கம் செய்வர்.

"நோய்ப்பால் விளிந்த யாக்கை தழீஇக்

······ **நீள்** கழன் மறவர் செல்வுழிச்செல்கென

வாள் போழ்த்தடக்கலும் உய்ந்தனர் மாதோ" (புறம்-93)

அரசரது நோய்வாய்ப்பட்டு கிடந்த உடலை தருப்பை புல் மீது கிடத்தி வேந்தர் செல்லும் உலகத்திற்கு செல்க என்று வாளால் வெட்டி அடக்கம் செய்யும் அறம் இருந்தது.

போர் தொடுக்க விரும்பும் மன்னன் ஆநிரைகளைக் கவர்ந்து காப்பாற்றுதல், பார்ப்பன மாக்கள், பெண்கள், பிணியுடை மாக்கள், புதல்வர் பெறாதவர் போன்றோர்களை அப்புறப்படுத்துவர்.இது அறநெறிப்பாற்பட்டவை. பசுக்களுக்குத் துன்பம் செய்யக் கூடாது என்ற நோக்கிலும், சிற்றுயிர்களுக்குத் தீங்கு விளைவிக்கக்கூடாது என்ற அறநெறியை பின்பற்றினர். துரதுவர்களை அனுப்பிப்படையைத் திரட்டுதல், நன்நிமித்தம் பார்த்துப் புறப்படுதல், போர் வாளினை நீராட்டி குடை முரசினை அணிவகுத்து சேல்வதல் ஆகிய அறநெறிகளையும் பினபற்றினர்.

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24, 25 und 2049 8, 9 March 2018

ISSN: 2321 - 984X

பல்கலைக் கழக மானியக் குழு அங்கிகாறம் வழ்றத் தமிழ்ப் பள்ளாட்டு ஆய்விதழ் UGC APPROVED INTERNATIONAL THAMIZH JOURNAL

# நவீனத் தமிழாய்வு

(பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்வுதழ்)

Tournal of

# **Modern Thamizh Research**

(A Quarterly International Multilateral Thamizh Tournal)

சிறப்பிதழ் :

தேசியக் கருத்தரங்கம்-2018 தமிழாய்வுத்துறை

ஜமால் முகம்மது கல்லூரி (தன்னாட்சி)

திருச்சிராப்பள்ளி-620 020, தமிழ்நாடு, இந்தியா

21-ம் நூற்றாண்டுத் தமிழ்ப் புதினங்கள் (2001 முதல் 2017 வரை...)

**Special Issue Editor** 

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### RAJA PUBLICATIONS

10, (Upstair), Ibrahim Nagar, Khajamalai, Tiruchirappalli - 620 023, Thamizh Nadu, India. Mobile : +91-9600535241 website : rajapublications.com

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	38	வி தமிழ்மொழி	சிலுவைராஜ் சரித்திரம் நாவலில் மனித உறவுகள்	172-175	
	10	அதுரைப்பாண்டியன்	மறுபக்கம் நாவலில் குமரி மாவட்ட வழக்காற்றுச் சொற்கள்	176-178	
	40	M. Canan	பொன்னாச்சரம் நாவலில் கீதாரிகளின் வாழ்க்கைச் சிக்கல்கள்	179-182	
	41	w Cam ifa gibat	வானென விரிபும் தமிழ் நவீனப் புதினவுலகு	179-182	
	42.	என். நாகவ் கணி	கப்ரபாரதிமணியனின் 'சப்பரம்' நாவலில் சமுதாயச் சிக்கல்	201-205	
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	45	111 shorong	க தமிழ்ச்செல்வியின் ஆறுகாட்டுத்துறை நாவல் ஒரு ஆய்வு	215-220	

Published by Raja Publications, No. 10, Upstair, Ibrahim Nagar, Khajamalai, Tiruchirappalli - 620 023, Tamil Nadu, India. Mobile : 9600535241 Printed : The Printing House, Tiruchirappalli - 620 023, Tamil Nadu, India. Ph : +91 - 431-2420121

தொடர்ச்சி உள்ளே...

### கள்ளிக்காட்டு இதிகாசம் - கருவாச்சி காவியம் உணர்த்தும் பண்பாட்டுப் பதிவுகள்

**முனைவர் வெ.** நிர்மலா உதவிப் பேராசிரியர், **ஞி இ**ராமகிருஷ்ணா கலை அறிவியல் கல்லூரி, கோவை, தமிழ்தாடு, இத்தியா.

முன்னுரை

உலகம் பல நவீனங்களைப் புகுத்தினாலும் மனித வாழ்க்கையின் அசுப்புறத் தோற்றங்களில் மாறுதல்கள் நிகழ்த்தினாலும் கொள்கைகள், தர்மங்கள், தத்துவச் சிந்தனைகள் மாற்றம் பெற்றாலும் மனிதனின் இயல்புகள் மாறவில்லை. படைப்பாளர்கள் தங்கள் படைப்பில் தரமான செய்திகளை தந்து இலக்கிய ரசனையை ஏற்படுத்துகின்றனர். தவற்ற படைப்புகளும் சாதக குணம் கொண்டு ஏற்றுக்கொள்ளும் குழலும் இன்றைக்கு நிகழ்கிறது என்பதை இக்கட்டுரையின் வாயிலாக நாம் அறியலாம்.

இலக்கிய வகைகளில் சிறப்பானதொரு இடம் வகிக்கிறது. தனி மனிதனின் வாழ்வில் சிக்கல் மட்டுமன்றி, சமூக விழுமியக் கருத்துக்களும் இணைத்தே விளக்குகிறது. நிகழ்ச்சிகளின் விளைவுகளும், படைப்பாளியிடம் அனுபவமாக மிளிர்ந்து, அந்த பாதிப்பினால் படைப்பாளன் படைப்பை வெளிக்கொண்டு வருகின்றனர். மேலை நாட்டு இலக்கியத் தரக்கத்தால் புதினம் வரையறையோடு படிப்படியாக வளர்ந்து வருகிறது. கலை கலைக்காகவே என்ற நிலை மாறி ஆண்டான் - அடிமை, முதலாளி – தொழிலாளி என்னும் முரண்பாடுகளை தகர்த்து சிக்கல்களுக்கு தீர்வு காணும் நோக்கில் முற்போக்குச் சிந்தனையுடைய புதினங்கள் பல தோன்றியுள்ளன. இதனால் எந்தக் காலத்தில் தோன்றினாலும் கலை மக்களுக்காகவே என்னும் இலக்கிபப் பங்களிப்புடன் பல்வேறு சூழலில் தோன்றி தமிழ் புதின ஆய்வுக்கு தனிக்களத்தையும், நெடிய மரபினையும் கொண்டு திகழ்கிறது.

நாவல் பரிணமிக்கும் காரணிகள்

. **வளமான சொல்லாட்சித் தி**றன்

- 2. கற்பனை திறன்
- உணர்ச்சி வெளிப்பாடு

இம்முன்று காரணிகளும் நாவல் பரிணமிக்க உதவுபவை. அனுபவத்திற்கு அப்பாற்பட்ட மண்ணில் தோன்றாத வாழ்க்கையின் அடியோட்டங்களை காணும் பார்வை படைப்பாளனுக்கு வேண்டும். கற்பனை, இயற்கை வர்ணணை, உத்தி முறைகள், உவமைகள் இவையெல்லாம் இருந்தாலும் வளமான சொல்லாட்சித்திறன், உணர்வுகளின் வெளிப்பாடு இல்லையெனில் வெற்றி பெறாது. உலக இலக்கிய ஈடுபாடும் சமகாலத்திய உலகளாவிய நிகழ்வுகளுடன் ஒப்பிட்டு நோக்கவும் கூரிய, சீரிய பார்வை படைப்பாளனுக்கு தேவைப்படுகிறது. தற்கால இலக்கியச் சிந்தனைக்கு வளமான கதைக்காகவும் தேவைப்படுகிறது. இத்தேவையை பூர்த்தி செய்யவே படைப்பாளன் தன் ஆளுமையை முன் வைக்கிறான்.

### கள்ளிக்காட்டு இதிகாசம் - வைரமுத்து

உலகத்தால் அழிக்க முடியாத இதிகாசக் கருவினை தலைப்பாகக் கொண்டு அந்நில மக்களின் வாழ்வியலை படம்பிடித்துக் காட்டுகிறது இயற்கையான வானம், பூமி இவற்றின் மையமாக மனிதன் மொழி இயல்பானது. நவீன மையமான உலகில் நகர வாழ்க்கையில் உண்மையான உள்ளத் தேடல் இல்லை. இளமைப்பருவம் அறியா பருவம் முதுமைப்பருவம் தளர்ந்த பருவம் இவ்விரு பருவங்களும் மனிதன் கடந்தே செல்ல வேண்டும் தனிமையை எதிர்கொள்ளும் நிலையை ஆசிரியர் அழகாக சித்தரித்துள்ளார்.

"வானத்திலிருந்து ஒரு நட்சத்திரம் உதிர்ந்தாலும்,

நவீனத் தமிழாய்வு (பண்ணாட்டுப் பண்முகத் தமிழ் காலாண்டு ஆய்விதழ்) மார்ச் 8-9, 2018 - சிறப்பிதழ் (ISSN 2321-984X) Modern Thamizh Research (A Quarterly International Multilateral Thamizh Journal) January 8-9, 2018 - Special Issue (ISSN 2321-984X) 21-ம் நூற்றாண்டுத் தமிழ்ப்புகினங்கள் (2001முகல்) 2017வரை ) - கேசியக் கருக்காங்கம் - 2018

21-ம் நூற்றாண்டுத் தமிழ்ப் புதினங்கள் (2001 முதல் 2017 வரை...) - தேசியக் கருத்தரங்கம் - 2018 முதுகலை உதமிழாய் வுத்துறை, ஐமால் முகமது கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி - 620 020, தமிழ்தாடு. இந்தியா. மரத்திலிருந்து ஒரு பூ உதிர்ந்தாலும் இழப்பு இழப்பு தான்", மழைத்துளியில் எறும்பு மூழ்கினாலும் கடலுக்குள் கப்பல் மூழ்கினாலும் அவ்வலி ஒன்றுதான்".

அவரவருக்கு வரும் துயரத்தை அவரவர் அனுபவித்தே தீர வேண்டும். இது விதிக்கப்பட்ட விதி. வானம் பார்த்த பூமி. விவசாயத்தை நம்பி வாமும் மனிதன். மனிதனை நம்பி வாழும் உயிரினங்கள் இவர்களை இழந்த பிறகும் விவசாயியால் பாதிப்படையாத சமூகம். இந்நிலை நாவலில் பதிவாகியுள்ளன. மாடு கடவுளாகவும், உழவனுக்கு நல்ல நண்பனாகவும் இருக்கிறது.

உலகத்தில் பூமி மற்றொரு கோள் மேகங்களால் சுபிக்கப்பட்டு இயற்கை வறட்சிபாய் பாலை சுவடுகள் அந்நிலத்தில் குடிகொண்டுள்ளன. கருவேலமரம், கற்றாழை, இலந்தை, நெருங்சி, பிரண்டை, சப்பாத்திக்கள்ளி போன்ற கொடிகள் படர்ந்து கழுகு, காடை, கௌதாரி, வல்லூறு போன்ற பறவைகளும், பாலை நிலத்தில் வாழும் மனித மனங்களும் தொலைந்து போன வாழ்வை மீட்டெடுக்கும் போராட்ட உணர்வை புதினத்தின் தொடக்க பள்ளிகளாய் கொண்டுள்ளதோடு, கள்ளிப்பட்டி கிராமத்தில் காகம் கரைந்தாலே கூடும் மக்களின் எதார்த்த நிலை நம் சமூகத்தில் காலம் காலமாக உள்ள கணவன் மனைவி உறவில் ஏற்படும் இழப்பு, ஆழமான, ஆறாத வடுவாய் இருந்து மண் மரபை காத்து நிற்கின்றன. வாழ்வில் கூடலும், ஊடலும், பிரிவும், நெல்லிக்கனியின் இறுதியிலுள்ள சுவையை கூறுவதோடு ஆசிரியர்

"புருசன், பொண்டாட்டி உறவு என்பது வெறும் உரிமைகளை முன்னிறுத்துவதில்லை கடமையை முன்னிறுத்தி அமைந்துள்ளது" என்று கூற்றிலிருந்து கட்டுப்பாடான காதல் வாழ்வை சித்திரிக்கிறது. மேலும் குடும்பத்தில் குழந்தைகள் வளர்ப்பில் ஏதாவது குறையிருந்தால் அது அவர்களுக்கு தெரியாத நிலை. குழந்தைகள் வாழ்க்கையில் தடம்மாறி செல்லும் போது,

**"பால் திரியத் தொடங்கும் நேரம் பாத்திரத்திற்கு தெரியாது**" என்று பழமொழி கிராம மக்களின் வெகுளி தனத்தை வெளிச்சமிட்டு காட்டுகிறது.

பேயத்தேவரின் மகள் செல்லத்தாயி வரதட்சணைக் கொடுமையால் சிக்கி தவிக்கும் போதும், இளம் விதவை கோலம் பூண்ட போதும் தந்தையின் அகமனப் போராட்டம் அழகாக கண்முன் நிறுத்தியுள்ளார். ஒச்சுக்காளை என்ற துரத்து சொந்தக்காரன் மறுமணம் செய்ய முன்வருகிறான். ஓச்சுக்காளை போட்ட நிபந்தனைகளை ஏற்றுக்கொண்டு பேயத்தேவருக்கு உண்மையில் தலைகுனிவு ஏற்படக்கூடாது என்று செல்லத்தாயின் மன உளைச்சலை ஆசிரியர் குறிப்பிடும் போது,

"எங்கப்பன் காசில் பொழைக்க நெனக்கிறயே ... ஒத்த வாழவும் முடியல, இரெண்டாம் பொழப்பும் இப்படியாச்சென்று ஊரு வையுமே. அதனால அத்து வாழவும் முடியல. வயித்துல துணியக் கட்டிக்கிட்டேன். வாயில பூட்டும் போட்டுக்கிட்டேன். சுகவரன் விட்ட உழின்னு எப்படியே கெடக்கேன்" என்னும் கூற்றிலிருந்து சமூகத்தில் பெண்கள் தன்மானத்திற்கு அஞ்சி வாழ்வதும், தனக்கு இழைக்கப்பட்ட அநீதியை மனத்திற்குள்ளேயே புழுங்கி வாழ்வதும், கொடுமையை வெளிப்படுத்தும் துணிவுள்ள பெண்களும் உள்ளனர் என்பதை இப்பாத்திரத்தின் மூலம் வெளிப்படுத்தியுள்ளார்.

### பேயத்தேவரின் அன்பு வெளிப்பாடு

செல்லத்தாயி புகுந்த வீட்டிற்கு வந்தவுடன் பேயத்தேவர் அன்பாக அகப்பையில் உள்ள ஈரலும், கறியும், கோழி, கருமுட்டையை அள்ளி "இந்தா தாயி" என நீட்டும் தந்தையின் பாசவுணர்வினை நிராகரிக்கிறாள். அன்பாக அழைத்தாலும் வைராக்கியமாக அன்பை மறுக்கிறாள். இதை அறிந்த பேயத்தேவர் குறாவளிக் காற்று சுழலப்போகிறது என்பதை மனக்குறிப்பால் உணர்ந்து கொண்டார். கணவனின் கட்டளையை விவரிக்கும் போது,

நவீனத் தமிழாய்வு (பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) மார்ச் 8-9, 2018 - சிறப்பிதழ் (ISSN 2321-984X) Modern Thamizh Research (A Quarterly International Multilateral Thamizh Journal) January 8-9, 2018- Special Issue (ISSN 2321-984X) 21-ம் நூற்றாண்டுத் தமிழ்ப்புதினங்கள் (2001முதல்2017வரை...) - தேசியக் கருத்தரங்கம்-2018 முதுகலை & தமிழாய்வுத்துறை, ஐமால் முகமது கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி-620 020, தமிழ்நாடு, இந்தியா. "பத் துப் பவுன் வாங் காம பெத் த பிள்ளையோட வந்தேன்னா காமக்காபட்டி எல்லையிலேயே காலவெட்டுவேங்கறான் ஒன் மருமகன். நீங்க என்னடான்னா நெல்லுச் சோறு போடுறேன். குத்துப்பட்டு வந்தா கோழிச்சாறு ஊத்துறேங்கீறிக..." என்று தந்தையிடம் தன் மனக்குமுறலை கொட்டித் தீர்க்கின்றாள். மேலும் குழந்தையை மருமகன் வந்து பார்க்கவில்லை என கேட்க அதற்கு

"பின்னையைத் தூக்கியாந்தாப் பத்து பவுனோட வா. இல்லாட்டி நெல்லப் போட்டு பின்னையைக் கொல்லு நீ மட்டும் வா!"

என்று கணவன் விதித்த கட்டளையை தந்தையிடம் கூற பேயத்தேவர் அதிர்ச்சி அடைகிறார்.

அன்பில், பாசத்தில் நிறைந்திருந்தாலும், பொருளாதாரச் சிக்கல் அவர்களை மண்டியிடச் செய்கிறது. கடும் உழைப்பிலிருந்தும் வறுமை அவர்களை வெல்கிறது. வரதட்சணைக் கொடுமையும், அணைக்கட்டுவதால் அரசாங்கம் அவ்வூர் மக்களை வெளியேற்றி அவல நிலைக்கு தள்ளுகிறது. அணைக்கட்டுவது பொதுநலம் சேவைதான் ஆனாலும் தனிமனிதர்களின் அவலம் என்ன என்பதை நாவல் நமக்கு தெளிவாக உணர்த்துகிறது.

கருவாச்சிக்காவியம் - வைரமுத்து நவீன காலக் கணினி யுகத்தில் பொறுமை குணம், சகிப்புத்தன்மை, விட்டுக்கொடுத்தல் ஆகிய பண்புகள் அமேசான், சுகுளில் தேடினாலும் கிடைக்காது அந்த நகர வாழ்க்கை நரக வாழ்க்கை, ஆனால் கிராம வாழ்க்கை இயல்பான எதார்த்த நடைமுறை வாழ்க்கை. காவியத்தின் ஆரம்பத்தில் சட்டையன் கருவாச்சியை மணமுறிவு செய்ய பஞ்சாயத்தை கூட்டுகிறான். இந்த ஒற்றுமை கிராமத்தில் மட்டுமே காணமுடியும். கருவாச்சியின் தாயார் பெரியமூக்கி இறந்துவிட இறுதிச் சடங்கு செய்ய வயிற்றுப் பிள்ளையோடு தாயை இழந்து நிற்கிறாள். கப்பஞ்செட்டியார் கருவாச்சிக்கு ஆறுதல் கூற அன்பில் மனம் நெகிழ்ச்சி அடைகிறான்.

வறுமையிலும் ஒற்றுமை குறையாத அன்பும். மனித பண்பும், மண்ணின் பெருமையை உணர்த்துகின்றன. பெரியமுக்கியின் வாழ்வின் நிகழ்ந்த ஒரு சம்பவம். சுப்பஞ்செட்டியாரின் வாழ்வில் நிகழ்ந்த ஒரு சம்பவம் சுப்பஞ்செட்டியாரின் முதல் பெண்ணின் திருமணத்தின் போது வைர மோதிரம் போட்டால் தான் தாலி கட்டுவேன் என்று மணமகன் அடம் . பிமக்க, மகளின் வாழ்வு கேள்விக்குறியாம் நிற்பதை எண்ணி மனம் வருந்துகிறார். ஆந்த சூழ்நிலையில் பெரியமூக்கி தனது 3 <sub>பவன்</sub> ങ്ങ്കിരിയെ போட்டு *மகளு*ைய வா*ழ்க்கையை*ம் சுப்பஞ்செட்டியாரின் தன்மானத்தை காக்கின்றாள். கருவாச்சி தனிமரமாய் நிற்க கதியற்று நிற்கும் நிலையிலும் கணவன் கட்டையனால் துன்பத்திற்கு வரும் போதும் பலர் மனித நேய உணர்வடன் கருவாச்சியை அரவணைக்கின்றனர். கொண்ணவாயன் பாத்திரம் கருவாச்சியின் வீட்டு பண்ணையில் வேலை செய்கிறான். உண்மையான உழைப்பாளி, கள்ளம் கபடற்றவன். ஆனால் சோளத்தட்டை சேகரிக்கும் எலி வளையைத் தோண்டும் பொழுது பாம்பால் தீண்டப்பட்டு இறந்து

ஊர்மக்கள் பஞ்சத்தால் துன்புறும் போது சோளக்கதிர் கஞ்சி ஊற்றி, பசியால் வாடிய மக்களுக்கு தேவாமிர்தமாகத் தருகின்றனர்.

விடுகிறான். கட்டையன் இரண்டாம் திருமணம்

செய்து கொள்கிறான். திம்சு என்னும் அப்பெண்

கட்டையனையும் மகன் அழகு சிங்கத்தையும் தன்

பக்கம் சேர்த்து சுயநலவாதியாக இருக்கிறாள்.

தேவனையும்,

சடையப்ப

கிராமப்புற நம்பிக்ககைள்

மாமனார்

தாய்மை பேற்றின் போது, "உட்காந்த ஒரு பிள்ளத்தாச்சி எப்பவும் வலது கையை ஊண்டி எந்திரிச்சன்னா அவளுக்கு ஆம்பளப்பிள்ள. இடது கையை ஊண்டி எந்திரிசான்னாப் பொம்பளைப்பிள்ள" என்று நம்பிக்கை அறிவியல் பூர்வமாகவும் மண் சார்ந்த நம் பிக்கையாகவும் இன்றளவும் ஏற்றுக்கொள்ளப்படுகிறது.

நவினத் தமிழாய்வு (பண்ணாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) மார்ச் 8-9, 2018 - சிறப்பிதழ் (ISSN 2321-984X) Modern Thamizh Research (A Quarterly International Multilateral Thamizh Journal) January 8-9, 2018 - Special Issue (ISSN 2321-984X) 21-ம் தூற்றாண்டுத் தமிழ்ப்புதினங்கள் (2001முதல்2017வரை...) - தேசியக் கருத்தரங்கம்-2018 முதுகலை உதமிழாய்வுத்துறை, ஐமால் முகமது கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி-620 020, தமிழ்நாடு, இந்தியா.

### கருவாச்சி காவியத்தில் பழமொழிகள்

வாழ்க்கை அனுபவத்தின் பாடமாக பழமெருகள் இன்றும் கிராமங்களில் புழக்கத்தில் **2**\_को का का.

"கார்த்திகை மாசம் gd angyw களைபெடுப்பு மழை எய்க்காதப்பா"(பக்-72)

"வாயக்கட்வை பிள்ளை வளப்பா!" வயத்துக்கட்வை புருசன் வளப்பா" ஆகிய பழமொழிகள் நாவலில் இடம் பெற்றுள்ளன.

கல்லானாலும் கணவன் என வாழும் காவிய கருவாச்சி, கருவாச்சியை மணமுறிவு செய்த நிலையிலும் தொடர்ந்து துன்புறுத்தும் கட்டையன் செயல்

- வீட்டு வயலை யாரும் உழக்கூடாது என்ற நிபந்தனை
- ஏர் உழுது கொண்டிருக்கும்போது மாட்டை அவிழ்த்து தகராறு செய்தல்
- தன்னை முன்னேறவிடாமல் பலவிதங்களில் இடையூறு செய்தாலும் பொறுமையாக அமைதியாக இருக்கும் பண்பு கொண்டவள் கருவாச்சி
- தொழுநோயால் பாதிப்புக்கு உள்ளாகி கணவன் <mark>அனைவராலும் கைவிடப்பட்ட நி</mark>லையில் <mark>மன்னித்து ஏற்றும் மனி</mark>த நேயப் பண்பு.
- "இன்னா செய்தாரை ஒறுத்தல் அவர்நாண நன்னயம் செய்து விடல்" என்னும் குறளுக்கு இலக்கணமானவள்
- நாவலாசிரிபரே கேள்விக் கணைத் தொடுக்கும் போது, "வா யுத்தத்திற்கு என்று வாழ்க்கை உன்னை அழைக்கும் பொழுது களங்களை மறுப்பது கோழைத்தனமாகாதா? மனம் தளராத பதில் பலம் ஒன்றே.
- அடிக்கிற சிறு உளியா? அடி தாங்குகிற பாறையா? பொறுமையைக் கைக்கொள்வதும், குற்றங்களை மன்னிப்பதும், வீரச்செயல் என்பது அவள் கூற்றிலிருந்து அறியலாம்.

- "பொழச்சிருவியாடி இந்த பூமியில.. அப்பள Qaram Debenut
  - "பந்தையம் போடுநியா? செயிர்கரலியா" "Qauldali Gylant Bosonov Curt, yron Iyrda மாட்டேன்" என்னும் உள்ள உறுதி மெய்சிலிர்க்க செய்கிறது.
- இவ்விடத்தில் கண்ணவி பாண்டிய மன்னனிடம் வழக்குரைக்கும் பொது நியாயத்திற்குப் போராடத் துணியும் அறிவுத் தெளிவிணைப் போல் கருவாச்சியிடம் நாம் காண முடிகிறது.
- கருத்துருவின் படைப்பாக கருவாச்சி சித்தரிக்கப்பட்டுள்ளாள்.
- "அஞ்சாறு வருசமா ஆகாயத்திலிருந்து ஒரு சொட்டு விழுகாத மழைத்துளி கோரங்கெழுங்க வாசல்ல மேட்டுத் தலப் பலகையை வச்சி நகக்கி பாகுப்ப இருக்கிற பச்சக் கெழங்க உண்டு பசியாறும். ஊரில் விட்ட ஊரே கத்த கடுகாடா மாறிபோயிரும் போலிருக்க<u>ே"</u> என ஊர்மக்களுக்காக வருத்தடைகிறார்.
- தன்னிர் பஞ்சத்தைத் தீர்க்க கழுதைக்கும் கழுதைக்கும் கல்பாணம் பண்ணி வைத்தால் மழை வரும் என்ற கிராம நம்பிக்கையை தகர்தெரிகிறாள்.
- இயற்கையை வெல்லும் பேராற்றல் பென்ணிடம் உள்ளது என்பதை செயல்திறன் பெண்ணாக சித்தரிக்கப்படுகிறாள்.
- கருவாச்சி அறிவாளியாகவும், அறப்பொருளின் வடிவமாகவும் காட்டப்பட்டிருக்கிறாள்.

### முதலாளித்துவ மடமைக்குணங்கள்

- முதலாளித்துவ வடிவத்தின் உருவமாய் 'திமிக' கதாபாத்திரத்தைப் படைத்துள்ளார்.
- சமூகப் பொருளாதார நெருக்கடியில் சிக்கித்தவிக்கும்போது ஏழைகள் மீது அக்கறை கொள்வது ஒர் அணுகுமுறை

தவீனத் தமிழாய்வு (பன்னட்டுப் பன்முகத் தமிழ் காவாண்டு ஆய்விதழ்) மார்ச் 8-9, 2018 - சிறப்பிதழ் (ISSN 2321-984X) Modern Thamizh Research (A Quarterly International Multilateral Thamizh Journal) January 8-9, 2018- Special Issue (ISSN 2321-984X) 21-ம் தூற்றான்டுத் தமிழ்ப்புதினங்கள் (200முதல்2017வரை...) - தேசியக் கருத்தரங்கம் - 2018 முதுகலை க தமிழாய்வுத்துறை, ஐயால் முகமது கல்லூரி (தன்னாட்சி), திருச்சிராப்பன்னி-620 020, தமிழ்நாடு, இந்தியா.

- நாட்டு வளத்தை அந்நியர்கள் கவர நினைக்கும்போது அதை காத்து காவல் செய்ய நியமிப்பவர்கள் தொழிலாளர்கள் தானே.
- திமிசு கட்டையன் வீடு, சடையப்பத் தேவன் காடு. கருவாச்சி வீடு மூன்றையும் அபகரிக்க எண்ணுகிறாள்.
- இந்திய சமூக, பொருளாதார சுரண்டலை கருவாச்சி. செல்லதாயி கதாபாத்திரங்களின் வாயிலாக அறியலாம்.

### முடிவுரை

எண்ணத்தை எதிரொலிக்கும் காவியமும் பண்பாட்டுப் பகிர்வை உணர்த்தும் இதிகாசமும் காலப்போக்கில் கலையாத காவியங்களாய் திகழ் கின்றன. உலக மயமாதலும், புவிவெப்பமயமாதல், நகர்மயமாதல் என பல்வேறு காரணிகள் அன்பை, பண்பை சிதைத்தாலும் ஆழ்மனதில் அகழ்ந்தெடுத்த முத்துக்களாய் கிராமக் கலாச்சாரம் பண்பாட்டை பிரதிபலிக்கின்றன. துன்பங்களும் துயரங்கள் தவிடு பொடியாகும் கரு வாச் சியும், செல் லத் தாயி கதாப்பாத்திரங்களினால் தான்.

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Vol. 6 No. 1

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மார்கழி 2048 - பங்குனி 2049 January - March 2018 ISSN: 2321 - 984X

பல்கலைக் கழக மானியக் குழு அங்கீகாரம் வற்றத் தமிழ்ப் பன்னாட்டு ஆய்விதழ்

UGC APPROVED INTERNATIONAL THAMIZH JOURNAL

நவீனத் தமிழாய்வு

(பன்னாட்டுப் பன்முகத் கமிழ் காலான்டு ஆய்விகழ்)

Tournal of

Modern Thamizh Research

(A Quarterly International Multilateral Thamizh Tournal)



Published by

**RAJA PUBLICATIONS** 

10, (Upstair), Ibrahim Nagar, Khajamalai, Tiruchirappalli - 620 023, Thamizh Nadu, India. Mobile : +91-9600535241 website : rajapublications.com

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71. 72. 73. 74. 76.	Capagera Sapad Sapad Sapad Sapadas Sapadas Sapadas Sapadas Sapadas	பெண் மேல்பாட்டுச் சித்தனைகள் சியாக கணிய கணிய வாழ்வியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னைவின் விருட்சங்களும் தட்சத்திரம் சிறுகதை உணர்ந்தும் விண்ணியல் நிகழ்வுகள் உயிர் எழுத்து இநழ் சிறுகைதயில் தொன்மங்கள் பண்பாட்டியல் நோக்கில் ஒ.வி.விலுயனின் தலமுறகள் மு. மேத்தாவின் ஆகாயத்திற்கு அடுத்த விடு கவிதைத் தொருட்கில் சமுதாயச் சித்தனைகள்	367-360 361-367 368-371 372-376 377-882 383-389
71. 72. 73. 74. 76. 77.	Cupigreis g.Cpaid gurfleiseid gurfleiseid gurfleise gurf	பெண் மேல்பாட்டுச் சித்தனைகள் சியாக ககிகைகள் காற்கியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அண்ணாயின் விருட்சங்களும் நட்சத்திரம் சிறுறை உணர்ந்தும் விண்ணியல் நிவற்வுகள் உயிர் எழுத்து இதழ் சிறுறைதலில் தொள்கங்கள் பண்பாட்டியல் நோக்கில் ஓ.வி.விஜயனின் தலமுதகள் மு. மேத்தாவின் ஆகாபத்திற்கு அடுத்த விடு கவிதைத் தொகுட்டில் சமுதாயச் சித்தனைகள் தற்காலத் தமிழில் இலக்கணமாற்றங்கள்	367-360 361-367 368-371 372-376 377-862 383-389 390-394
71. 72. 73. 74. 76. 77. 78.	Cupdyren g.Cpad gurfleded gurfleded gurfleder gurfleder gurfler gurfler gurfler gurfler gurfler gurfler gurfler gurfler gurfler gurfleder	போர் மேற்பாட்டுச் சித்தனைவர் சியாக ககிகையில் வாழ்கியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னையின் விருட்சங்களும் நட்சத்திரம் சிறுகை உணர்ந்தும் வின்னகியல் நிவழ்வுகள் உயிர் எழுத்து இதழ் சிறுகைதவில் தொன்மங்கள் பண்பாட்டியல் தோக்கில் ஓ.வி.விஜயனின் தலமுறகள் மு. மேற்தாவின் ஆகாபத்திற்கு அடுத்த விடு கவிதைத் தொருப்பில் சமுதாயச் சித்தனைகள் தற்காலத் தமிழில் இலக்கணமாற்றங்கள் ரமணிசந்திரன் நாவல் காட்டும் மரபுவதிப் பெண்கள்	367-360 361-367 368-371 372-376 377-882 383-389 390-394
71. 72. 73. 74. 76. 77. 78.	Cupdyren gapad gardand gardandur gardandur gardandur gardan gar gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan gardan g	போர் மேல்பாட்டுச் சித்தனைவர் கழகிய பெரியவன் கதைவளில் வாழ்கியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னைசமின் விருட்சங்களும் நட்சத்திரம் சிறுகதை உணர்ந்தும் வின்னசியல் நிலழ்வுகள் உயிர் எழுத்து இநழ் சிறுகைதவில் தொன்மங்கள் பண்டாட்டியல் நோக்கில் ஒ.வி.விறுபனின் தலமுறகன் மு. மேத்தாவின் ஆகாயத்திற்கு அடுத்த விடு கவிதைத் தொகுப்பில் சமுதாயச் சித்தனைகள் தற்காலத் தமிழில் இலக்கணமாற்றங்கள் ரமணிசந்திரன் நாவல் காட்டும் மரபுவழிப் பெண்கள் ஒப்பிட்டுப் பார்கையில் அம்பை – மாதனிக்குட்டி சிறுகதைகள்	367-360 361-367 368-371 372-376 377-882 383-389 390-394 395-398 399-402
71. 72. 73. 74. 76. 77. 78. 70.	Cupipred paged particular paged	போர் மேல்பாட்டுச் சித்தனைகள் கழகிய பெரியவன் கதைகளில் வாழ்வியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னைவின் விருட்சங்களும் உயிர் எழுத்து இநழ் சிறுகைதயில் தொன்மங்கள் பண்பாட்டியல் நோக்கில் ஒ.வி.விஜயனின் தலமுதகள் கு. மேத்தாவின் ஆகாயத்திற்கு அடுத்த விடு கவிதைத் தொருட்கில் சமுதாயச் சித்தனைகள் தற்காலத் தமிழில் இலக்கணமாற்றங்கள் ஏன்கோத்திரன் நாவல் காட்டும் மரபுவழிப் பெண்கள் ஒப்பட்டும் பார்கையில் அக்கை - மாதனிக்குட்டி சிறுகைதகள் புதுக்கவிதைகளில் மகளிர் மான்பு	367-360 361-367 368-371 372-376 377-882 383-389 390-394 395-396 396-402 403-407
71. 72. 73. 74. 76. 77. 78. 80. 81.	Cupique gaged gageder gageder gageder gageder gageder gageder gageder gageder gageder gageder gageder	வண் மேல்பாட்டுச் சித்தனைகள் கழகிய பெரியவன் கைதகளில் வாழ்கியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னையின் விருட்சங்களும் தட்சத்திரம் சிறுகை உணர்ந்தும் விண்ணியல் நிவழ்வுகள் உயிர் எழுத்து இதழ் சிறுகைதவில் தொன்மங்கள் மு. மேத்தாவின் ஆகாயத்திற்கு அடுத்த வீடு கவிதைத் தொருட்சில் சமுதாயச் சித்தனைகள் தற்காலத் தமிழில் இலக்கணமாற்றங்கள் ரமணிசந்திரன் நாவல் காட்டும் மரபுவழிப் பெண்கள் ஒப்பிட்டுப் பார்கையில் அம்பை – மாதவிக்குட்டி சிறுகதைகள் புதுக்கவிதைகளில் மகளிர் மான்பு இல்லிக்கட்டின் அழிவியல் பின்னைகி	367-360 361-367 368-371 372-376 377-882 383-389 390-394 395-398 399-402 403-407 408-411
71. 72. 73. 74. 76. 77. 78. 80. 81. 82.	Cupilgrein g.Cpaid gurilladead gurilladead gurilladead gurilladea gurilladea gurilladea gurilladea gurilladea gurilladea gurilladea gurilladead gurill	பண் மேல்பாட்டுச் சித்தனைகள் செய்ய பெரியவன் கதைகளில் வாழ்கியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னையின் விருட்சங்களும் தட்சத்திரம் சிறுகதை உணர்ந்தும் விண்ணியல் நிவழ்வுகள் உயிர் எழுத்து இதழ் சிறுகைதவில் தோன்மங்கள் பண்டாட்டியல் தோக்கில் ஓ.வி.விஜயனின் தலமுகள் மு. மேற்தாவின் ஆகாயத்திற்கு அடுத்த விடு கவிதைத் தொருட்சில் சமுதாயல் சித்தனைகள் தற்காலத் தமிழில் இலக்கணமாற்றங்கள் ரமணிசந்திரன் நாவல் காட்டும் மரபுவழிப் பெண்கள் ஒப்பிட்டுப் பார்கையில் அம்பை – மாதவிக்குட்டி சிறுகதைகள் புதுக்கவிதைகளில் மகளிர் மான்பு ஐல்லிக்கட்டின் அறிவியல் பின்னைகி WOMEN'S SOCIAL MOVEMENT IN TAMILNADU	367-360 361-367 368-371 372-376 377-882 383-389 390-394 395-398 398-402 403-407 408-411 412-417 418-420
71. 72. 73. 74. 76. 77. 78. 80. 81. 82.	Cupilgrein g.Cpaid gurfleineil gurfleiner gurfleiner duburrein gr.Chigari gr.Chigari G.Lhar G.Lhar Str.Chigari gr.gigningilain u.at.orio.physiqueri B.MEHARUNNISHA gr.metopic prig	வண் வேட்டாட்டுச் சித்தனைகள் கழகிய பெரியவன் கதைகளில் வாழ்கியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னைசமின் விருட்சங்களும் தட்சத்திரம் சிறுகதை உணர்ந்தும் விண்ணியல் நிகழ்வுகள் உவிர் எழுத்து இதழ் சிறுகைதவில் தோன்மங்கள் பண்டாட்டியல் தோக்கில் ஒ.வி.விறுபனின் தலமுறகன் மு. மேற்தாவின் ஆகாயத்திற்கு அடுத்த விடு கமிதைத் தொருப்பில் சமுதாயச் சித்தனைகள் தந்காலத் தமிழில் இலக்கணமாற்றங்கள் ரமணிசந்திரன் தாவல் காட்டும் மரபுவழிப் பெண்கள் ஒப்பிட்டுப் பார்கையில் அம்பை – மாதனிக்குட்டி சிறுகதைகள் புதுக்கவிதைகளில் மகளிர் மான்பு ஐஸ்லிக்கட்டின் அறிவியல் பின்னனவி WOMEN'S SOCIAL MOVEMENT IN TAMILNADU தவினத்துவ தோக்கில் தெருஞ்சி தாவல்	367-360 361-367 368-371 372-376 377-882 383-389 390-394 395-398 398-402 403-407 408-411 412-417
71. 72. 73. 74. 76. 77. 78. 90. 91. 92. 94.	Cupilpreis  p.Cpad  particuland	வண் வேட்டிட்டில் அறிவியல் பின்னனி முறிய பெரியவன் கைறகளில் வாழ்கியல் சில்கல்கள் பாழிதாசனின் வித்துக்களும் அண்ணாசலின் விருட்சங்களும் நட்சத்திரம் சிறுகை உணர்ந்தும் வின்னரியல் நிலழ்வுகள் உலிர் எழுத்து இநழ் சிறுகைதலில் தொன்மங்கள் பண்டாட்டியல் நோல்கில் ஒ.வி.வினுயனின் தலமுறகன் மு. மேத்தாவின் ஆகாயத்திற்கு அடுத்த விடு கவிதைத் தொகுட்கில் சமுதாயச் சித்தனைகள் தற்காலத் தமிழில் இலக்கணமாற்றங்கள் ரமணிசந்திரன் நாவல் காட்டும் மரபுவழிப் பெண்கள் ஒப்பட்டும் பார்கையில் அம்பை - மாதனிக்குட்டி சிறுகதைகள் புதுக்கவிதைகளில் மகளிர் மான்பு ஐல்விக்கட்டின் அறிவியல் பின்னனவி WOMEN'S SOCIAL MOVEMENT INTAMILNADU நனினத்துவ தோக்கில் தெருஞ்சி நாவல் அபருத்துவிங்கம் சிறுகைதகளில் தொன்மம்	367-360 361-367 368-371 372-376 377-882 383-389 390-394 395-396 399-402 403-407 408-411 412-417 418-420 421-429
71. 72. 73. 74. 76. 77. 78. 80. 81. 82.	Cupilpred p. Cpad particular part	வண் வேட்டாட்டுச் சித்தனைகள் கழகிய பெரியவன் கதைகளில் வாழ்கியல் சிக்கல்கள் பாரதிதாசனின் வித்துக்களும் அன்னைசமின் விருட்சங்களும் தட்சத்திரம் சிறுகதை உணர்ந்தும் விண்ணியல் நிகழ்வுகள் உவிர் எழுத்து இதழ் சிறுகைதவில் தோன்மங்கள் பண்டாட்டியல் தோக்கில் ஒ.வி.விறுபனின் தலமுறகன் மு. மேற்தாவின் ஆகாயத்திற்கு அடுத்த விடு கமிதைத் தொருப்பில் சமுதாயச் சித்தனைகள் தந்காலத் தமிழில் இலக்கணமாற்றங்கள் ரமணிசந்திரன் தாவல் காட்டும் மரபுவழிப் பெண்கள் ஒப்பிட்டுப் பார்கையில் அம்பை – மாதனிக்குட்டி சிறுகதைகள் புதுக்கவிதைகளில் மகளிர் மான்பு ஐஸ்லிக்கட்டின் அறிவியல் பின்னனவி WOMEN'S SOCIAL MOVEMENT IN TAMILNADU தவினத்துவ தோக்கில் தெருஞ்சி தாவல்	367-360 361-367 368-371 372-376 377-882 383-389 390-394 395-398 396-402 403-407 408-411 412-417 418-420 421-429 430-435

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### ப.செல்வி

<sub>உதனிப்பேராசிரியர்,</sub> தமிழ்த்துறை, ஸ்ரீ இராமகிருஷ்ணா மகளிர் கனை அறிவியன் கன்னூரி, கோவை - 641 044, தமிழ்நாடு, இத்தியர

வட்டிலேயும் பொது பெண்களுக்கு 夏上前本の月到10 திக்கல்கள் மிகுதியாகக் இடன்றன. பெண்களைக் குடும்பத்தில் தாணப்படுகின்றன. அடிமைபோல இழிவாக நடத்தும் நிலை தொட்டு இன்றுவரை வேத்தாலம் காணப்படுகிறது. இந்நிலையை மாற்ற பல்வேறு படைப்பாளர்கள் தம் படைப்புக்களின் வழி செய்கின்றனர். ஆழமாகவும் அழுத்தமாகவும் வெளியிடுவதற்குப் பு**தினம்** இறந்த களமாக அமைகிற**து. அவ்வகையில்** பிரபஞ்சனின் கனவு மெய்ப்படவேண்டும் புதினத்தில் காணலாகும் பெண் மேம்பாட்டுச் இந்தனைகளைக் காண்பதே இக்கட்டுரையின் தலையாய நோக்கமாகும்.

# மகளிருக்கு ஏற்படும் இன்னல்கள்

மகளிருக்கு இன்னல்கள் இருவகைகளில் ஏற்படுகின்றன. ஒரு பெண்ணிற்குக் குடும்பத்தில் ஏற்படும் சிக்கல்களை அகச்சிக்கல்கள் என்றும், பிற இடங்களில் ஏற்படும் சிக்கல்களைப் புறச்சிக்கல்கள் என்றும் கூறலாம். தன் மனைவியை ஓர் உயிராகக் கருதாமல் விலங்கை (மாட்டை) அடிப்பது போல அடித்துத் துன்புறுத்தி இழிவுபடுத்தும் கணேசனைத் தட்டிக் கேட்கும் பெண்ணாக ஜெய்ஸி என்ற பாத்திரத்தைப் படைத்துள்ளார்.

எப்போது சீறுவான், எப்போது தாக்குவான், யாருக்கும் தெரிவதில்லை. தன் மனைவி மீதே எப்போது திருட்டுக் குற்றம் சுமத்துவான் என்பதையும் அறியத்தான் முடிவதில்லை. ஆனாலும் அது நிகழத்தான் செய்கிறது (க.மெ.வே.ப.89) என்பதிலிருந்து தன் கணவனின் மனநிலை பற்றிய அச்சத்தோடே ஒவ்வொரு தொடியும் கமதியின் வழ்வு அமைந்துள்ளது இந்நிலையை அவள் வசம் இப்பொது இரண்டு கைகள் மட்டும் இருந்தன. அந்தக் கைகளால் இயன்ற வரை தன் உடம்பை மறைத்துக் கொண்டாள்.(க.மெ.வே.ப.17) என்பதிலிருந்து சுமதியின் அவலநிலையைக் காணமுடிகிறது இந்நிலையை ஜெய்ஸி என்ற பாத்திரத்தின் வழி ஆசிரியர் மாற்றத்தை ஏற்படுத்தியுள்ளார்.

# அவர் அடித்தால் நீங்கள் திருப்பி அழயுங்களேன்

வழி கூற்றின் என்ற ஜெய்ஸியின் வெளிப்படுகிறது. மேலும் அவர் தமிழில் பேசினால், நீங்கள் தமிழில் பேசுங்கள். ஆங்கிலத்தில் பேசினால் ஆங்கிலத்தில் பேசுங்கள், கையால் பேசினால் நீங்கள் கையால் பேசுவது தானே முறை,பெண்கள் இன்னும் நூறு ஆண்டுகளுக்கு, அடிக்கும் கணவனைத் திருப்பி அடிக்கலாம் என்பதே என் எண்ணம். அதற்கேற்ற உடல் பலத்தை வேண்டும். அவர்கள் பெற (க.மெ.வே.ப.151) என்ற ஜெய்ஸி கூற்றின் தன்னைக் பெண்கள் வழி கொள்வதற்கான அதற்கான உடல் வலிமையை அவர்கள் ஏற்படுத்திக்கொள்ள வேண்டும் என்ற பெண் மேம்பாட்டுச் சிந்தனையை ஆசிரியர்; விதைக்கின்றார்.

வாழ்க்கை என்பதே புருசன் கூட வாழ்வது மட்டும்தானா, அவன் உன்னைப் பன்றியாக நடத்தினாலும் அதற்குக் கட்டுப்பட்டு வழ்வதுதானா. இனி நீ வாழப் போவதுதான் வாழ்க்கை. உன் சொந்தப் படிப்பை, - Albanda GAT color (B) பிரகாகிக்கப் போவது தான் வாழ்க்கை (க.மெ.வே.பக். 87-88) என்ற ஆசிரியரின் கணவுமெய்ப்பட வேண்டும் புதினத்தின் வழி பெண்கள் கயமாகத் தன் சொந்தக் கல்வி அறிவைக் கொண்டு மனித தர்மத்திற்குக் கட்டுப்பட்டு தன் மகிழ்வுக்கு ஏற்ப பெண்கள் தன் வாழ்க்கையை அமைத்துக் கொள்ள வேண்டும். என்ற பெண் மேம்பாட்டுக் கருத்தாக்கத்தை முன்வைக்கின்றார். இக்கருத்துக்கு அரண் சேர்ப்பதாக

பாதகஞ் செய்பவரைக் கண்டால்-நாம் பயங்கொள்ள லாகாது பாப்பா, மோதி மிதித்து விடு பாப்பா-அவர் முகத்தில் உமிழ்ந்து விடு பாப்பா (பாரதியார் கவிதைகள் ப.300)

எனும் பாரதியின் கூற்றிற்கேற்ப பெண்களுக்கு இடைய10று செய்யும் ஆண்களைக் கண்டு பெண்கள் அஞ்சாமல் தன் எதிர்ப்பைக் காட்ட வேண்டும் என்பது தெளிவாகிறது.

தாங்க முடியாத நிலை வந்தால், அவனை விட்டு வேளியேறுங்கள். தைரியமாகக் கண்டில் ஏறி, இந்தப் பேடி அடித்துத் துன்புறுத்துகிறான் என்று நீதிபதியிடம் சொல்லுங்கள் (க.மெ.வே.ப.152) என்ற ஜெய்ஸியின் கூற்றுறின் வழி சுமதியின் மன வலிமையைத் தூண்டுகிறார். சுமதியின் மனதில் பெரும் மாற்றம் ஏற்படுவதற்குக் காரணமாய் அமைகிறாள் ஜெய்ஸி.

- கணவனின் சந்தேக மனப்பான்மை உடைய கணவன்
- பணிபுரியும் இடத்தில் ஆடவர்களால் ஏற்படும் பாலியல் இன்னல்கள்

என பணிமகளிருகள் பல்வேறு; இன்னல்களைச் சந்திக்க நேரிடுகிறது. அவ்வாறு ஏற்படும் இன்னல்களுக்கு ஆசிரியர் ஆங்காங்கே இன்னல்களைச் சுட்டி அவற்றிற்குத்

வெளிப்படுத்தியுள்ளார். **தீர்வுகளையும்** பல்வேறு நிலைகளிலும் பெண்களுக்குப் ஏற்படும்பொழுது இன் எல்கள் அவர்கள் ு எவ்வாறு எதிர்கொண்டு வாழ்வை மாற்றி அமைக்கலாம் என்பதைப் புதினத்தின் பல்வேறு வெளிப்படுத்தி இடங்களிலும் சமுதாய படைப்புக்களின் மாற்றத்தைத் தம் வழி ஏற்படுத்தியுள்ளார்.

## கணவனால் ஏற்படும் இன்னல்

காரணமாக அலுவல் முக்கியப் பொறுப்பில் இருக்கும் போ*து* நினைத்த நேரத்தில் விடுப்பு எடுக்கமுடியாத நிலை ஏற்படுகிறது. சுமதியை விடுப்பு எடுக்குமா<sub>று</sub> கணே*ச*ன் சுமதி மறுமொழி கூறியதற்கு கூறியதை அவனால் ஏற்றுக்கொள்ள இயலவில்லை. மேலும் அவளைக் கையது கொண்டு மெய்யது போர்த்தும் நிலைக்குத் தள்ளினான். தன் மனைவியின் சேலையைப் பிடித்து உருவி, அவளை வீட்டுக்கு வெளியே தள்ளிக் கதவைச் சாத்தினான், அவள் குழந்தை போல் உருமாறி இருந்தாள் என்பதும் அவள் கணவனால் மிகுந்த இன்னலுக்குள்ளானதும் தெளிவாகிறது.

பெண்கள் பல சமயங்களில் தாழ்வு மனப்பான்மையாலும்,மூடநம்பிக்கையாலும் தங்களைத் தாங்களே ஆண் வர்க்கத்தின் அடிமைகளாக ஆகிவிடுகின்றனர். பெண்களின் மனநிலை மாறாத வரை எந்த வெற்றியும் பெற முடியாது பெண்ணடிமைத் தனமும் ஒழியாது. (பாரதிதாசன் கவிதைகள்.ப.3) என்ற பாரதிதாசனின் கருத்து எண்ணத்தக்கது.

கணவனைப் பிரிந்த பெண்கள் எதிர்கொள்ளும் சிக்கல்களும் தீர்வுகளும்

கணவன் மனைவியிடையே கருத்து வேறுபாடுகள் தோன்றி அவர்களின் இல்வாழ்வில் விரிசல் ஏற்படுகிறது. காலப்போக்கில் பிரிவுநேரும்போது மிகவும் பாலியல் தொல்லைக்கு ஆளாவது பெண்களே.

நவீனத் தமிழாய்வு (பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) தொகுதி 6, எண்.1. ஜனவரி-மார்ச் 2018 ISSN:2321-984X Modern Thamizh Research (A Quarterly International Multilateral Thamizh Journal) Vol.6 No.1, January - March 2018 ISSN:2321-984X

நாமத்தின் களவு மெய்ப்பட வேண்டும் புதினத்தில் காணலாகும் பெண் மேம்பாட்டுச் சிந்தனைகள் தவ்<sup>வர்று</sup> கணவனைப் அவக்கியான இன்னல்களுக்கு ஆளாகின்றனர். இதுவகையான ் <sup>ஊழியர்க</sup>ள் தரும் பாலியல் தொல்லை <sub>த் கணவனால்</sub> சுமத்தப்படும் குற்றம்

த்த ஊழியர்களால் ஏற்படும் பாலியல் தொல்லை

பிரிந்த பெண்கள் கணவனைப் பணியாற்றும்போது அலுவலகத்தில் **ஊ**ழியர்களால் பல்வேறு இன்னல்களுக்கு உள்ளாகின்றனர்.

சுமதியைப் பார்த்துக் நடேசன் உங்களுக்கும் உங்கள் கேட்டார். சுமதி <sub>கணைவருக்கும்</sub> பெரும் பிரச்சனை என்று கேள்விப்பட்டேனே என்னிடம் மறைக்காதீர்கள் எனக்கு எல்லாம் தெரியும் <sub>நம்</sub> இலாகா முழுவதும் இதுதானே பேச்சு (க.மெ.வே.ப.154)

மனைவியிடையே விரிசல் கணவன் ஏற்பட்டுப் பிரிய நேரிடும்பொழுது ஊழியர்கள் அறுதலாக இல்லாத நிலை வெளிப்படுகிறது. வேண்டும் என்பது மாற இந்நிலை தெளிவாகிறது.

நான் சொல்வது புரிகிறதா, நீங்கள்; அடிக்கோடு என்பதை போடுபவரைப் போல அழுத்திச் சொன்னார் (க.மெ.வே.ப.155) என்பதிலிருந்து நடேசன் அதிகாரியின் நடத்தை B என்ற வெளிப்படுகிறது.

சபேசன் என்ற நாற்பத்தி ஐந்து வயது உயர் அதிகாரியும் அவளிடம் இவ்வாறு கூறியது சுமதியின் மனதிற்கு மிகுந்த மன வருத்தத்தை ஏற்படுத்தியது. சபேசன் என்ற உயர் அதிகாரி, அவரின் வயது சுமார் நாற்பத்தி காதோரம் நரைத்த மேல் அதிகாரி இயல்புக்கு மாறாய்ச் சிரித்து அவளை வரவேற்றார்.

கணவன் மற்றும் பெற்றொர், சகோதரர் துணையின்றி ஒரு பெண் இந்தச் சமுதாயத்தில்

வாழ்வது மிகவும் இன்னலை ஏற்படுத்துவதாய் உள்ளது. திருமணம் ஆகாத பெண்களுக்கு ஆண்கள் தரும் இன்னல்களைக் தாட்டிலும், கணவனை விட்டுப் பிரிந்து வாழும் பெண்கள் மிக அதிகமான இன்னல்களைச் சந்திக்க நேரிடுகிறது. என்பது இப்புதினத்தின் வழி தெளிவாகிறது.

என்னைக் குணங்களும் உணர்வுகளும் கொண்ட ஒரு பெண்ணாகப் பாருங்களேன் என்று கத்த வேண்டும் போல் இருந்*தது.* அவளுக்கு, (க.மெ.வே.பக்.196-197) எதிர்கால வாழ்வு அச்சமூட்டுவதாய் இருந்தது. என்பது புலனாகிறது.

மூட்டைப்பூச்சிக்கு பயந்து வீட்டைக் கொளுத்துவதா, எவனாவது வரம்பு மீறினால் நிலைமை அறையுங்கள் உங்கள் ஓங்கி மாறிவிடும். (அடுத்த வாரமே வாய்ப்புக் கிடைத்தது) சுமதி கல்வியின் துணைகொண்டு செயல்படவில்லை துணிவுடன் தெளிவாகிறது. கணவனைப் பிரிந்த பெண்களுக்கு சாதாரண ஆடவர் முதல் ஆன்மீகத்தில் ஈடுபடுவோர் வரை பாலியல் தொல்லை கொடுப்பவர்களாகவே காணப்படுகின்றனர்.

எதிர்கொள்ள எவ்வாறு வாழ்வை வேண்டும்

சுமதி தன் கணவனுடன் வாழ இயலாமல் விவாகரத்துப் பெற்று இருந்த நிலையில் தான் சந்திக்க நேர்ந்த ஒரு பெண்ணைக் கண்டு வாழ்வை எப்படி எதிர்கொள்ள வேண்டும் என்பதை அறிகிறாள்.

இருங்கள். நானும் நிம்மதியாக ஏறக்குறைய இப்படித்தான். பிள்ளை வயசில் ஒரு அயோக்கியனை நம்பி ஊரை விட்டு இந்த ஊருக்கு ஓடிவந்தவள்தான் அந்த அயோக்கியன் இருந்துவிட்டு வாரம் ஒரு என்னுடன் ஓடிவிட்டான் அப்புறம் தான் இந்த மனுசர் என்னைக் கல்யாணம் பண்ணிக் கொண்டார். பார்த்தால் படித்தவர் மாதிரி இருக்கிறீர்கள்

மாதிரி தான் சின்னப் பெண் இன்னும் ப என் எனி க் இருக்கிறீர்கள் கல்யாணம் கொள்ளுங்கள். அல்லது சும்மா நிம்மதியாக என்பதிலிருந்*து* (s. Qu. Car.) இருங்கள் வாழ்வை படிக்காத ஒரு பெண் எப்படி எதிர்கொள்கிறாள். நன்கு படித்து பதவியில் உயர் அதிகாரியாக இருந்தும் அவளின் வாழ்வில் மிகுந்த இன்னல்களைச் சந்தித்துள்ளாள். ஆசிரியர் சுமதியின் வாழ்வுக்கு இப் பாத்திரத்தின் வழி தீர்வைச் சுட்டுகின்றார். பெண் மேம்பாட்டுச் சிந்தனைகள்

- பெண்களுக்கு ஏற்படும் ஆபத்திலிருந்து அல்லது துன்புறுத்துவோரிடம் எதிர்ப்பை வெளிப்படுத்த வேண்டும்.
- சரியான வாழ்க்கைத்துணை அமையாத போது மனித மனதுக்குக் கட்டுப்பட்டு, தனக்குப் பிடித்தது போல் பெண்கள் வாழ்வை அமைத்துக் கொள்ளலாம்.
- பெண்கள் மனம், உடல் வலிமையை
   ஏற்படுத்திக் கொள்ளவேண்டும்.
- குடும்பத்தில் கணவன் மனைவி ஒருவருக்கொருவர் அன்புசெலுத்தி வாழவேண்டும்.
- குடும்ப வாழ்வில் இன்பதுன்பங்களைக் கணவன் மனைவி ஒருவருக்கொருவர் பகிர்ந்து கொண்டு வாழவேண்டும்.
- பெண்கள் கண்மூடித்தனமாக வாழாமல்
   அறிவுப்பூர்வமாக செயல்பட வேண்டும்.
- பெண்ணை அடிமையாக நடத்தும் ஆண்களை எதிர்த்துப் போராட வேண்டும்.
- தனக்கு இடையூறு செய்பவர்களைக் கண்டு அஞ்சி அகலாமல் அவர்களைத் துணிவுடன் எதிர்க்கும் மனவலிமை உடையவர்களாகப் பெண்கள் திகழ வேண்டும்.

- உடல் வலிமையைப் பெற சில தற்காப்புக் கலைகளை சுற்றுக் கொள்ளவேண்டும்.
- தன் மனைவியை மாட்டை அடிப்பது போல் அடிக்கும் கணவனை விலகுகள் தவறில்லை. தன் உயிரைக் காத்துக் கொள்ளவாவது விலகி இருக்கலாம்.

கணவன் மனைவி இடையே கருத்து மோதல்கள் ஏற்படும்போது, சிறிது காலத்திற்குப் பிரிந்து இருக்கும்போது அவர்களிடம் அன்பு இருந்தால் மீண்டும் இணைந்து வாழலாம் என்ற சிந்தனையைச் சுட்டுகிறார் ஆசிரியர்.

OS

Vol. 6 No. 1

மார்கழி 2048 - பங்களி 2049 January - March 2018 ISSN: 2321-0737

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UGC APPROVED INTERNATIONAL THAMIZH JOURNAL

# செம்மொழித் தமிழ்

(பன்னாட்டுப் பன்முகத் **கம்ழ்** காலாண்டு **ஆய்விதழ்**)

Journal of

# **Classical Thamizh**

(A Quarterly International Multilateral Thamizh Journal)



## Published by

## **RAJA PUBLICATIONS**

No. 10 (Upstair), Ibrahim Nagar, Khajamalai,

Tiruchirappalli - 620 023, Tamil Nadu, India.

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65TESB-6 FRM 1 மார்கழி 2048 - பங்களி 2049 ISSN: 2321-0737 Vol. 6 No. 1 January - March 2018 1. TILLEGE TO சங்க இலக்கிய கபிலர் பாடல்களில் ஆசிரியப்பா பமிலும் முறை 1-6 V.SURYANARAYANAN. 7-15 ASTROLOGICAL POSITION OF CANCER PATIENTS-ASTUDY S.KAMALAKARA SHARMA 16-22 திரைப்பணியில் கலைஞர் டாக்டர் மு.கருணாநிதி M. MOHAMED TAJDEEN TAMIL NATIONALISM AND ITS IMPACT ON THE 23-30 LANGUAGE POLICY OF THE GOVERNMENT OF TAMIL NADU 31-37 5. இரா.விஜயராணி நற்றிணைக் கூறும் முல்லைத்திணைமகளிர் 38-41 க விரசோழன் புறதானூற்றில் அறவாழ்வியலில் அழகியல் 42-48 நா. அமுதாதேவி இலக்கியங்களில் அங்கதம் காக்கைப்பாடினியார் நச்சென்ளையார் பாடல்களில் கருத்துப் புலப்பாட்டு நெறிகள் 49-53 S. Dribun ஒரு பளஞ்சோலைக் கிராமத்தின் எழுச்சி' புதினம் எடுத்துரைக்கும் வாழ்வியல் பண்பாடு 54–57 w. Drings-g. sain\_urash தமிழகத்தில் கிடைக்கப்பெறும் இஸ்லாமிய வரலாற்று ஆவணங்கள் சுட்டும் 10. தா. உமர் சாதிக் 58-63 சமூக மற்றும் சமய நல்லிணக்கம் 64-67 11. க.கலாடுகி அண்ணாமலையார் சதகத்தில் அறக்கோட்பாடு 88-70 12. ம. கிறிஸ்டி பாப்பரசி சங்க இலக்கியத்தில் பண்பாடு 71-75 13. இரா. தெய்வம், கு. சத்யா அகநானூற்றில் திருவிழாக்கள் 76-82 தனித்தமிழ் இயக்கத்தில் 'தென்மொழி' இதழ் 14. கி.குனத்தொகையன், DI. ESTAL BUS 83-85 15. க.கோபாலகிருஷ்ணன் சங்க தமிழரின் உளவியல் சார்ந்த ஆளுமை சிந்தனைகள் 86-89 16. க. ககாசினி நாச்சியார் திருமொழியில் உவமைகள் 90-95 17. அ. ஜெலிந்தாராணி, த.பத்மா நற்றிணையில் மலர்கள் 96-102 மு. நாகராஜன் தேவாரத்தில் திருவண்ணாமலை 103-108 நந்திக் கலம்பகமும் வசைச்சொற்க்களும் 19. கி.பரிமனா 109-112 20. ரா. பிரபா ஆற்றுப்படை நூல்களில் சமூக அமைதி நால்வர் வாக்குகளில் ஊழ் 113-117 21. பழ.முருகேசன், வ.தனலெட்சுமி 118-124 22. க.முருகேசன் தமிழ் விடுகதைகளில் இயற்கையும் உயிரினங்களும் 125-133 23. А.в. Степат திருவாசகத்தில் மெய்பாட்டுக் கூறுகள் 134-138 சங்க இலக்கியங்களில் வாழ்வியல் விழுமியங்கள் 24. எம். வனிதா 139-143 25. கோ.விசயராகவன் சங்க இலக்கியம் காட்டும் தமிழரசு 144-146 26. ...... Сетвей தமிழிலக்கியங்களில் அறம் 147-150 பண்டைய கால கல்வெட்டுகள் கூறும் வரலாற்றுச் செய்திகள் 27. த.அறிவழகள் 151-154 திருக்குறளில் பாலியல் அறங்கள் 28. மௌ.அஸ்கர் அலி 155-158 தமிழ்ச் செம்மொழிவரலாறு 29. இர.வா.ழீகபாஷினி, த.தியாகராஜன் தமிழாதம் குடும்ப வாழ்வும் திருமணமுறையும் 159-163 30. இரா.ஜெயந்தி விக்கிரம சோழனின் முன்னோர்களின் பெருமை 164-167 31. எஸ்.காஞ்சனா 168-172 சங்க இலக்கிய பாலைப் பாடல்கள் உணர்த்தும் தாய்மையுள்ளம் 32. த.மு.ஆனந்த புறநானூற்றில் இயந்திரப் பொறியியல் 173-175 33. ச.ஆதிசக்தி 176-183 அற இலக்கியங்களில் பெண்ணியச் சிந்தனை 34. ந.ஆனந்த மீரான் மைதீன் நாவல்கள் காட்டும் சமகால இஸ்லாம் சமூகத்தின் வாழ்வியல் 184-186 35. மு.ஆயிஷாம்மா 187-192 பழந்தமிழர் உணவும், விருந்தோம்பலும் 36. கோ.இராமசத்திரன் புறநானூற்றில் வானியல் சிந்தனைகள் 193-199 37. இ.ஆர்.இரவிச்சந்திரன் மொழிபெயாப்பும் இரண்டாம்மொழிமலையாளம் கற்பித்தலும் 200-202 38. ப.**இராஜேஷ்** கம்பனில் பழிநீங்குதலும் அறமுரைத்தலும் 203-212 39. மு.இராதா 213-215 சங்ககால அரசியல் நலம் 40. து.இராமசாமி 216-223 தியாருவின் கவிதைகளில் சமூகச் சிந்தனைகள் 41. எச்.ஷோபனா, பி.ஜனத் பிரதஸ் 224-229 மதுரையின் சிறப்பு 42. மா.உமாமகேஸ்வரி தொகை நூல்களில் வேளாண்மைத் தொழில்நுட்பம் 230-232 43. ப.உமாமகேஸ்வரி கர்நாடக இசை வடிவங்களில் தூது 233-235 44. ச.உமாமஹேஸ்வரி 236-245 தாவர வகைப்பாடு – தொல்காப்பியத்தை முன்வைத்து 45. 6.2 LOT புத்திலக்கிய பெண் கட்டமைப்பில் தாலி கருத்துருவாக்கம் 246-250 46. ஜெ.கரோலின் ஜெபசாந்தினி 251-253 திணைமாலை நூற்றைம்பதில் அறக்கழிவுகள் 47. த.கவிதா 254-257 வைரமுத்து கவிதைகளில் அழகியல் 48. உகலைச்செல்வி 258-261 தமிழ் இலக்கியங்களில் வானியல் கூறுகள் 49. இரா.கலையரசி

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# பழமொழி நானூறில் காணலாகும் கல்வி குறித்த சிந்தனைகள்

#### முனைவர் ப.செல்வி

உதனிப்பேராசிரியர், தமிழ்த்துறை, ஸ்ரீ இராமகிருஷ்ணா மகளிர் கலை அறிவியல் கல்லூரி, கோயம்புத்தூர் - 641 044, தமிழ்நாடு, இந்தியா

#### முன்னுரை

பதினெண் கீழ்க்கணக்கு நூல்களில் ஒன்று பழமொழி நானூறு. நானூறு பாடல்களை உடையதாலும் ஒவ்வொறு பாடலின் இறுகியலும் 90 பழமொழியைக் கொண்டுள்ளதாலும் இந்நூல் பழமொழி நானுறு என்றழைக்கப்படுகிறது. பழமொழிக்கென்றே அமைந்த முதல் நூல் இதுவே ஆகும். இதன் ஆசிரியர் முன்றுரை அரையனார். கல்வியானது மனித மனத்தைப் பக்குவப்படுத்துகிறது. நன்மை தீமைகளை அறிந்து மனிதன் நல்வழியில் செல்வதற்கு நீதி இலக்கியங்கள் பெரிதும் துணைபுரிகின்றன. அவ்வகையில் உள்ள நீதி இலக்கியங்களில் ஒன்றான பழமொழி நானூறில் கல்வி குறித்த சிந்தனைகளை வெளிக்கொணர்வதே இக்கட்டுரையின் தலையாய நோக்கமாகும்.

#### கல்வியின் சிறப்பு

கல்வி மனிதனின் வாழ்வைச் செம்மைப்படுத்த உதவுகிறது. அறியாமையை நீக்கி அறிவுப்பூர்வமாகச் செயல்பட மனிதனுக்குப் பெரிதும் துணைபுரிகிறது என்றால் அது மிகையாகாது. இதனையே

குஞ்சி யழகும் கொடுந்தானைக் கோட்டழகும் மஞ்சள் அழகும் அழகல்ல - நெஞ்சத்து நல்லம் யாம் என்னும் நடுவு நிலைமையால் கல்வி அழகே அழகு

(நாலடியார் பா.எண் 131)

இப்பாடல் வரிகள் மனித மனம் அறிய உண்மையாக உணரும் ஒழுக்கத்தைப் பயத்தலால் மக்கட்குக் கல்வியழகே பிற அழகுகளைக் காட்டிலும் உயர்ந்ததாகும் என்பதை நன்கு பறைசாற்றுகிறது.

#### கல்வியைக் கற்றலுக்கான பருவம்

கல்வியைக் கற்றலுக்குரிய இளமைப் பருவத்திலேயே கல்லாமல் வயது முதிர்ந்த பின் கல்வியில் வல்லவனாக முடியுமா? என்றால் முடியாது. எனவே காலம் கடத்தாமல் கல்வியைக் கற்பதற்குரிய இளமைப் பருவத்திலேயே கற்க வேண்டும் இதனையே

ஆற்றச் சுரம் போக்கி உல்கு கொண்டார் இல்லையே இல்லை மரம்போகக்கிக் கூலி கொண்டார்

(பழமொழி நானூறு : கல்வி)

என்ற பழமொழி உணர்த்துகிறது. செல்ல வேண்டிய பாதையை மிகவும் கடக்கவிட்டு அவ்விடத்தைச் சென்று சேர்வதென்பதும் ஓடத்தைச் செலுத்தி நிறுத்திய பின் கூலியைப் பெறுவதென்பதும் இயலாதது. எனவே கல்வியைக் கற்பதற்குரிய இளமையில் கற்க வேண்டும். இளமையில் கற்கும் கல்வியானது பசுமரத்தாணி போல் மனதில் நன்கு பதியும் என்பதை உணர்ந்து காலங்கடத்தாமல் கற்க வேண்டும்.

## கல்வியைக் கற்கும் முறை

எந்த ஒரு செயலானாலும் முறைப்டி அமையவேண்டும். கல்வியைக் கற்க வேண்டிய முறை குறித்துப் பல்வேறு இலக்கியங்களிலும் காணப்படுகின்றன. அவ்வகையில் கல்வியைக் குற்றமறக் கற்று அதன்படி நடத்தல் வேணடும் என்பதை

கற்க கசடறக் கற்பவை கற்றபின் நிற்க அதற்குத் தக (குறள் 391)

என்கிறது திருக்குறள். பழமொழி நானூறில் கல்வியைக் கற்றவர்கள் முன்பு ஒன்றைச் சொல்லும் பொழுது குறை ஏற்படும். மனத்தளர்வின்றிக் கல்வியைக் கற்கும்போதெல்லாம்

செம்மொழித் தமிழ் ஆய்னிதழ் (பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) தொகுதி 6.எண்.1. ஜனவரி-மார்ச் 2018 ISSN 2321-0737 Journal of Classical Thamizh (Quarterly International Multilateral Thamizh Journal) Vol.6 No.1, Jan.- March 2018 ISSN 2321-0737 தான் அறியாததை அறிந்துகொள்ள வேண்டும் <sub>என்ற</sub> ஆர்வத்தில் கல்வியைக் கற்க வேண்டும். இதனையே.

<sub>ந்நொ</sub>ன்று சிந்தித்**து உழன்றொன்று** அறியுமேல் (பழமொழி நா**னூறு** : கல்வி)

<sub>என்ற</sub> பழமொழி **வெளிப்படுத்துகிறது**.

<sub>தூலைத்</sub> தேர்வு செய்யும் முறை

நூல்கள் நியையத் தோன்றினாலும் நல்ல நூல்களை ஆராய்ந்து தேர்ந்தெடுத்து கற்க வேண்டும். இருளை விளக்கு போக்குவதைப் போல அறியாமை என்ற இருளை நல்ல நூல்கள் போக்கும். விளக்குக்குத் தேவையான எண்ணெய், திரி, நெய் முதலானவற்றை வாங்கிய பின் அவ்விளக்கானது இருளைப் போக்கவில்லை எனின் அவ்விளக்கினால் என்ன பயன் என்பதை உணர்ந்து வாழ்க்கையில் இருள் நீங்கி ஒளிபெற வேண்டுமென்றால் நாம் அறிவுடைய நல்ல நூல்களைத் தேர்ந்தெடுத்துக் கற்க வேண்டும். இதனையே

பொருளைக் கொடுத்து இருளைக் கொள்ளார்(பழமொழி நானூறு:கல்வி)

என்ற பழமொழி உணர்த்துகிறது.

கல்வி கரையில! கற்பவர் நாள் சில மெல்ல நினைக்கின் பிணிபல-தெள்ளிதின் ஆராய்ந் தமைவுடைய கற்பவே நீரொழியப் பாலுண் குருகின் தெரிந்து

(நாலடியார் பா.எண் 135)

என்ற பாடலின் வரிகளும் நூல்களைத் தேர்ந்தெடுத்துக் கற்க வேண்டும் என்பதையே வெளிப்படுத்துகிறது.

## கற்றோரின் சிறப்பு

கல்வியை நன்கு கற்றறிந்த சான்றோர்கள் எங்கு சென்றாலும் சிறப்படைவர். காரணம் அவர் பெற்ற கல்வியறில ப அவர்களுக்குச் செல்லும் இடமெல்லாம் விருந்தோம்பல் நடைபெறும். அவர்கள் செல்லும் இடங்களுக்கெல்லாம் உணவைக் கொண்டு செல்ல வேண்டியதில்லை. இதனையே ஆற்றவும் கற்றார் அறிவுடையார் அஃதுடையார் நாற்றிசையும் செல்லாத நாடில்லை-

அந்நாடு வேற்றுநா டாக தமவேயாம் ஆயினால் ஆற்றுணா வேண்டுவதில்

(பழமொழி நானூறு: கல்வி)

என்ற பழமொழி உணர்த்துகின்றது. இப்பழமொழிக்கு அரண் சேர்ப்பதாய் யாதானும் நாடாமல் ஊராமல் என்னொருவன் சாந்துணையுங் கல்லாத வாறு

(குறன் : 397)

என்ற குறள் கல்வி கற்றோரின் சிறப்பை வெளிப்படுத்துவதுடன் கல்வியின் முக்கியத்துவத்தை உணர்த்துவதாய் உள்ளது.

#### கற்றலின் கேட்டலே நன்று

கிணற்றுத் தவளை கிணற்றினுள்ளேயே இருந்து கொண்டு தான் இருக்கும் இடத்தைத் தவிர பிற இடங்களில் நல்ல நீர் இல்லை என எண்ணி வாழும் கிணற்றுத் தவளை போல் ஒருசில மனிதர்கள் இரவும் பகலும் பாடத்தை மனப்பாடம் செய்வதைக் காட்டிலும் கேட்டலே நன்று.

உணற்(கு) இனிய இன்னீர் பிறி(து) உழில் என்னும் கிணற்(று) அகத்துத் தேரைபோல் ஆகார்-கணக்கினை முற்றப் பகலும் முனியா(து) இனிதோதிக் கற்றலின் கேட்டலே நன்று (பழமொழி நானூறு : கல்வி)

ஆசிரியார் பாடத்தைக் கற்பிக்கும்பொழுது மாணாக்கர்கள் கவனத்தைச் சிதறவிடாமல் கூர்ந்து கவனிக்க வேண்டும்.

#### குலவித்தை கல்லாமலே அமையும்

சிறு வயதிலிருந்தே வீட்டில் வழிவழியாக முன்னோர் செய்துவந்த தொழிலைக் குழந்தைகள் உற்று நோக்கி அவர்கள் அச்செயலை நேர்த்தியாகச் செய்வர். இதனை பழமொழி நானூறில் ஒரு வழக்கின் முடிவினை இளையவன் என்பதால் ஆராய்ந்து சரியான தீர்ப்பு அமையாது உன மகமகள் கருதினார்.

உரைமுடிவு காணான் இளமையோன் என்ற நரைமுது மக்கள் உவப்ப - நரைமுடித்துச் சொல்லால் முறைசெய்தான் சோழன்

குவளிச்சை

கல்லாமல் பாகம் படும்

(பழமொழி நானூறு: கல்வி)

குலவித்தை கல்லாமலேயே அமையும் என்பது புலனாகிறது.

# கல்வியிற் சிறந்தோரை தேர்ந்தடுத்தல்

கல்வியறிவில் சிறந்தவர்களைத் தேர்ந்தெடுக்க வேண்டு மென்றால் கல்வியறிவில் சிறந்த சான்றோர்களைக் கொண்டுதான் தேர்வு செய்ய வேண்டும்.

புலமிக்கவரைப் புலமை தெரிதல் புலமிக்கவர்க்கே புலனாம்

பாம்பின் கால் பாம்பறியும் (பழமொழி நானூறு : கல்வி)

என்ற வரிகளில் பாம்பு சென்ற வழித்தடத்தை அதற்கு இனமான பாம்பால் தான் அறிய இயலும் என்பதிலிருந்து கல்வியறிவால் சிறந்தவர்களால் தான் நன்குசிறந்தவர்களைத் தேர்வு செய்ய இயலும் என்பது புலப்படுகிறது. நல்லோரை இனங்காணல்

நற்குணம் உடையவர்களை இனங்காண வேண்டுமென்றால் அவர்களைவிட கல்வி ஒழுக்கங்களில் சிறந்தவர்களாலே தான் அறிய இயலும் என்பதை

நல்லார் நலத்தை உணரிந் அவரினும் நல்லார் உணர்ப பிறருணரார் - நல்ல மயிலாடு மாமலை வெற்பமற்(று) என்றும் அயிலாலே போழ்ப அயில்

(பழமொழி நானூறு : கல்வி )

கடினமான இரும்பை இரும்பைக் கொண்டுதான் பிளக்க முடியும் என்ற பழமொழி உணர்த்துகின்றது.

#### நிறைகுடம் நீர் தழும்பாது

கற்றறிந்த சான்றோர்கள் அவையிலே அடக்கத்தைக் கடைபிடிப்பர். நூல் அறிவும் அனுபவ அறிவும் இல்லாதவர்கள் அடக்கத்தைக் கடைபிடிக்காமல் தம்மைத் தாமே புகழ்ந்து கொள்வர். அறிவுடைய சான்றோர்கள் மாசற்ற செயல்களையே செய்வர். இதனையே

நிறைகுடம் நீர் தமும்பல் இல்

என்ற பழமொழி வெளிப்படுத்துகிறது.

உடையார்முன் இல்லார்போல் ஏக்கற்றுங் கற்றார்

கடையாரே கல்லாதவர் (குறள் : 395) என்ற குறளும் வலுசேர்க்கின்றது. தொகுப்புரை

- காலம் கடத்தாமல் கல்வியைக் கற்பதற்குரிய இளமைப் பருவத்திலேயே கற்க வேண்டும்.
- மனத்தளர்வின்றிக் கல்வியைக் கற்கும்போதெல்லாம் தான் அறியாததை அறிந்துகொள்ள வேண்டும் என்பதை உணர்ந்து கற்க வேண்டும்.
- அறிவுடைய நல்ல நூல்களைத் தேர்ந்தெடுத்துக் கற்க வேண்டும்.
- கல்வியை நன்கு கற்றறிந்த சான்றோர்கள் எங்கு சென்றாலும் சிறப்படைவர்.
- இரவும் பகலும் பாடத்தை மனப்பாடம்
   செய்வதைக் காட்டிலும் கேட்டலே நன்று.
- 💠 குலவித்தை கல்லாமலே அமையும்.
- நற்குணம் உடையவர்களை நற்குணம் உடையவர்களாலேயே இனங்காண இயலும்.
- கற்றறிந்த சான்றோர்கள் அவையிலே
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CB

Vol. 6 No. 1

மார்கழி 2048 - பங்குனி 2049 January - March 2018 ISSN: 2321-0737

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# செம்மொழித் தமிழ்

(பன்னாட்டுப் பன்முகத் **கும்ழ்** காலா**ண்**டு **ஆய்விதழ்**)

Journal of

# **Classical Thamizh**

(A Quarterly International Multilateral Thamizh Journal)



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# பழமொழி நானூறில் காணலாகும் கல்வி குறித்த சிந்தனைகள்

#### முனைவர் ப.செல்வி

உதனிப்பேராசிரியர், தமிழ்த்துறை, ஸ்ரீ இராமகிருஷ்ணா மகளிர் கலை அறிவியல் கல்லூரி, கோயம்புத்தூர் - 641 044, தமிழ்நாடு, இந்தியா

#### முன்னுரை

பதினெண் கீழ்க்கணக்கு நூல்களில் ஒன்று பழமொழி நானூறு. நானூறு பாடல்களை உடையதாலும் ஒவ்வொறு பாடலின் இறுகியலும் 90 பழமொழியைக் கொண்டுள்ளதாலும் இந்நூல் பழமொழி நானுறு என்றழைக்கப்படுகிறது. பழமொழிக்கென்றே அமைந்த முதல் நூல் இதுவே ஆகும். இதன் ஆசிரியர் முன்றுரை அரையனார். கல்வியானது மனித மனத்தைப் பக்குவப்படுத்துகிறது. நன்மை தீமைகளை அறிந்து மனிதன் நல்வழியில் செல்வதற்கு நீதி இலக்கியங்கள் பெரிதும் துணைபுரிகின்றன. அவ்வகையில் உள்ள நீதி இலக்கியங்களில் ஒன்றான பழமொழி நானூறில் கல்வி குறித்த சிந்தனைகளை வெளிக்கொணர்வதே இக்கட்டுரையின் தலையாய நோக்கமாகும்.

#### கல்வியின் சிறப்பு

கல்வி மனிதனின் வாழ்வைச் செம்மைப்படுத்த உதவுகிறது. அறியாமையை நீக்கி அறிவுப்பூர்வமாகச் செயல்பட மனிதனுக்குப் பெரிதும் துணைபுரிகிறது என்றால் அது மிகையாகாது. இதனையே

குஞ்சி யழகும் கொடுந்தானைக் கோட்டழகும் மஞ்சள் அழகும் அழகல்ல - நெஞ்சத்து நல்லம் யாம் என்னும் நடுவு நிலைமையால் கல்வி அழகே அழகு

(நாலடியார் பா.எண் 131)

இப்பாடல் வரிகள் மனித மனம் அறிய உண்மையாக உணரும் ஒழுக்கத்தைப் பயத்தலால் மக்கட்குக் கல்வியழகே பிற அழகுகளைக் காட்டிலும் உயர்ந்ததாகும் என்பதை நன்கு பறைசாற்றுகிறது.

#### கல்வியைக் கற்றலுக்கான பருவம்

கல்வியைக் கற்றலுக்குரிய இளமைப் பருவத்திலேயே கல்லாமல் வயது முதிர்ந்த பின் கல்வியில் வல்லவனாக முடியுமா? என்றால் முடியாது. எனவே காலம் கடத்தாமல் கல்வியைக் கற்பதற்குரிய இளமைப் பருவத்திலேயே கற்க வேண்டும் இதனையே

ஆற்றச் சுரம் போக்கி உல்கு கொண்டார் இல்லையே இல்லை மரம்போகக்கிக் கூலி கொண்டார்

(பழமொழி நானூறு : கல்வி)

என்ற பழமொழி உணர்த்துகிறது. செல்ல வேண்டிய பாதையை மிகவும் கடக்கவிட்டு அவ்விடத்தைச் சென்று சேர்வதென்பதும் ஓடத்தைச் செலுத்தி நிறுத்திய பின் கூலியைப் பெறுவதென்பதும் இயலாதது. எனவே கல்வியைக் கற்பதற்குரிய இளமையில் கற்க வேண்டும். இளமையில் கற்கும் கல்வியானது பசுமரத்தாணி போல் மனதில் நன்கு பதியும் என்பதை உணர்ந்து காலங்கடத்தாமல் கற்க வேண்டும்.

## கல்வியைக் கற்கும் முறை

எந்த ஒரு செயலானாலும் முறைப்டி அமையவேண்டும். கல்வியைக் கற்க வேண்டிய முறை குறித்துப் பல்வேறு இலக்கியங்களிலும் காணப்படுகின்றன. அவ்வகையில் கல்வியைக் குற்றமறக் கற்று அதன்படி நடத்தல் வேணடும் என்பதை

கற்க கசடறக் கற்பவை கற்றபின் நிற்க அதற்குத் தக (குறள் 391)

என்கிறது திருக்குறள். பழமொழி நானூறில் கல்வியைக் கற்றவர்கள் முன்பு ஒன்றைச் சொல்லும் பொழுது குறை ஏற்படும். மனத்தளர்வின்றிக் கல்வியைக் கற்கும்போதெல்லாம்

செம்மொழித் தமிழ் ஆய்னிதழ் (பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) தொகுதி 6.எண்.1. ஜனவரி-மார்ச் 2018 ISSN 2321-0737 Journal of Classical Thamizh (Quarterly International Multilateral Thamizh Journal) Vol.6 No.1, Jan.- March 2018 ISSN 2321-0737 சிறப்பிதழ் Special Issue

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Tournal of

# Modern Thamizh Research

(A Quarterly International Multilateral Thamizh Tournal)

தேசியக் கருத்தரங்கம்-2018 \_\_\_\_\_தமிழாய்வுத்துறை

சிறப்பிதம் :

ஜமால் முகம்மது கல்லூரி (தன்னாட்சி) திருச்சிராப்பள்ளி–620 020, தமிழ்நாடு, இந்தியா

21-ம் நூற்றாண்டுத் தமிழ்ப் புதினங்கள் (2001 முதல் 2017 வரை...)

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50		வயலான் குருவி – வளைக்கப்படும் வயற்காணிகள்	244-248
51.		எதார்த்த நாவலாசிரியர் எஸ்.இரா.வின் உறுபசி	249-252
52.		'காளியூட்டு' புதினத்தில் வெளிப்படும் சமூக நிலைகள்	253-256
53.		சுபத்திரையின் பாத்திரப்படைப்பு	257-259
54.	க. மஞ்சுளா	தோல் நாவலில் மகளிர் நிலைகள்	260-262
55.	வி.மல்லிகா	"தூப்புக்காரி" நாவலின் கதைக்களமும், கட்டமைப்பும்	263-266
56.	இரா.மாரிமுத்து பா.மாரியம்மாள்	கரிப்பு மணிகள் காட்டும்'மருதாம்பாள்'பாத்திரப்படைப்பு (ராஜம்கிருஷ்ணன்)	267-270
57.		அஞ்ஞாடி புதினம் சித்திரிக்கும் வேளாண்மைப் பெண்கள்	271-276
58.	சீ.மாலினி,	சுவடுகளில் சத்தியம்	277-279
59.	பா.முத்தரசி	சு.வெங்கடேசனின் பதிவுகளில் குற்றப்பரம்பரையினரின் வாழ்வியல்	280-284
60.	க.முரளிதரன்	சு.சமுத்திரத்தின் 'வேரில் பமுத்த பலா' - ஒரு பார்வை	285-288
61.	பீ ரகமத்பீ	கிருஷ்ண மந்திரம்	289-292
62.	வெ.ராதா	ஆற்றங்கரை ஓரமும் அவலங்களும்	293-296
63.	ரஷிதாபேகம்	"சிறகுகள் முளைக்கும் வயதில்" ஜீ.ஆர்.சுரேந்திரநாத் குறுநாவல்	297-299
64.	த.ரமினா	சமூகவியல் நோக்கில் "நெல்லுச்சோறே" புதினம்	300-303
65.	மு.ரேவதி	நெஞ்சையள்ளும் மிளிர்கல்	304-307
66.	கா.லதா	கவிஞர் வைரமுத்து காட்டும் வாழ்வியல் நெறி	
67.	தா.லதா	ஆத்தங்கரை ஓரம் நாவலில் காட்ட இன மக்களின் போராட்ட வாழ்வியல்	308-310
68.	க.வாணிதேவி	ஓளி பிறந்தது புதினம்-ஓர் செய்யுல்	311-312
69.	சு.விஜயலெட்சுமி	மூன்றாம் உலகப்போர் புதினாக நிலையாரன பல் சிக்கல்கள்	313-315
70.	வீ.விஜய்	" <b>மாயதரிசனம்" புதின</b> த்தில் இதுகள்கள்	316-320
71.	ஜாஸ்மின் சுதா, த.க.	வெ.இறையன்புவின் புனைக்கல வரணத்தின் நிழல்	321-325
72.	இரா.ஜிவாராணி	'மாணிக்கம்' நாவலில் நம்பிக்கைகள்	326-329
73.	கோ.சங்கரவீரபத்திரன்&	கிறித்தவத் தமிழ் புதினத்திங்கள்	330-332
	த.ஜீவராணி	அற்றத்துத் தமழ் புதினித்திங்கள்	333-338
	அ. ஜெசிந்தா ராணி		
	சூ. ஸ்ரீதேவி	அளம் நாவலில் நம்பிக்கைகள்	339-343
		சௌகந்தி புதினத்தில் பாத்திரப்படைப்பு ஒரு பார்வை	
	பி.ஞீதேவி	'மாதொரு பாகன்' நாவல் புலப்படுத்தும் அக-பாவய வாழ்க்கைப் பலிக	344-348
_	சி.ஷகிலாபானு	'நெல்லுச்சோறே!' புதினம் - ஓர் ஆய்வு	349-35
	ஆ ஷர்மி	கீதாரி நாவலில் பெண்ணியச் சிந்தனைகள்	352-35
9. (	ஷி.்.பா	கள்ளிக்காட்டு இதிகாகர் சில் காணம் ப	360-36
		கள்ளிக்காட்டு இதிகாசத்தில் சமுதாயச் சிந்தனைகள்	364-36

# நெஞ்சையள்ளும் மிளிர்கல்

மு.ரேவதி

உதவிப் பேராசிரியர். ஸ்ரீ இராமகிருஷ்ணா மகளிர் கலை அறிவியல் கல்லூரி. கோவை -44

## முன்னுரை

புனைகதையின் ஒரு வகையான புதினம் என்பது ஐரோப்பாவில் பதினெட்டாம் நூற்றாண்டில் உருவானது. இதில் வாழ்க்கையின் நிகழ்வுகள் கற்பனையுடன் உரைநடையில் எழுதப்படுகின்றன. பல கதை மாந்தர்களையும் பல்வேறு இடப்பின்னணிகளையும் உடையது. தற்கால நிகழ்வுகளையும் தொன்மங்களையும் பயன்படுத்தி ஆசிரியர் புதினத்தைப் புனைவர். அவ்வரிசையில் தமிழின் ஒப்பற்றக் காப்பியமான சிலப்பதிகாரக் கதையில் தொன்ம கதாப்பாத்திரங்களைக் கருவாகக் கொண்ட இரா.முருகவேள் அவர்கள் மிளிர்கல் என்ற புதினத்தைப் படைத்துள்ளார். இப்படைப்பின் தன்மையினை ஆய்வு செய்யும் நோக்கில் இக்கட்டுரை அமைந்துள்ளது.

#### சிலம்பின் பாதை

இரா.முருகவேள் சிலப்பதிகாரக் கதையினை மையமாகக் கொண்டு இப்புதினத்தை படைக்கவில்லை. சிலம்பின் வேர்களைத் தேடிய பயணமாக படைத்துள்ளார்.

"மான் துள்ளினாலே மாணிக்கமும் மரகதமும் வெளிவருமென்று தமிழ் இலக்கியம் சொல்கிறது. இந்தக் கற்களுக்காகத்தான் அந்தக் காலத் தமிழகம் ரத்தக் களறியானது. கண்ணகி காற்சிலம்பிலிருந்த மாணிக்கமும் இப்படியொரு வண்ணக் மிளிர்கல் தான். இதே கற்களுக்காகத்தான் இன்றைய மேற்குலகம் காத்துக் கிடக்கிறது. பன்னாட்டு நிறுவனங்களும் மா.்.பியாக்களும் இதைத்தான் வருகின்றன" என்று கூறுவதன் மூலம் இவரது தேடல் எதிலுள்ளது என்பதினை அறிய முடிகிறது. இப்புதினம் ஒரு வகையில் பிரம்மாண்டமான

கட்டுடைப்பு. இதற்காக எடுத்துக்கொள்ளும் உரையாடல் தளங்களில் மார்க்ஸ், எங்கெல்ஸ் லெனின், மயிலை சீனிவேங்கடசாமி, ராகுல் சாங்கிருந்தியாயன் உட்பட அனைவரும் வந்து போகின்றனர்.

# புதினத்தின் போக்கு

ஒரு படைப்பு முழுக்க முழுக்க தொன்மத்தில் இருந்தோ அல்லது அமானுஷ்யத்தில் இருந்தோ பிறந்ததல்ல படைப்பாளியின் பார்வை அல்லது வாழ்வில் நடந்த நிகழ்வுகளின் தொகுப்பு போன்றவற்றில்லிருந்து கற்பனையில் ஒரு தளத்தை உருவாக்கிக் கொண்டு படைக்கப்படுகிறது. அது போன்றுதான் இடதுசாரி சமூக உணர்வுகளைக் கொண்டு களப்பணி புரிந்து வாழும் இரா.(முருகவேளின் இப்புதினமும் அமைந்துள்ளது.

சிலப்பதிகாரத்தை முன்வைத்து பயணத்தைத் தொடங்கி அதனுள் சங்க இலக்கியங்கள் மீதும் சமகால அரசியல் இரத்தின கற்கள் பற்றியும் பல கேள்விகளை ஆசிரியர் முன்வைக்கிறார். பண்டைய காலத்தில் நடந்ததாகக் கூறப்படும் கதைகளின் களம் இப்பொழுது எப்படியிருக்கும் என்கிற கேள்விக்கான விடைதான் இப்புதினமாகும்.

## புதின மாந்தர்களின் கூட்டமைப்பு

கண்ணகியும் கோவலனும் மதுரைக்கு நடந்து சென்ற பாதையும் பிறகு மிகவும் வலியுடனும் வேதனையுடனும் தனியாக கண்ணகி சேர நாடினை சென்றடைந்த பாதையிலும் பயணித்து அதைப்பற்றிய ஆவணப்படம் எடுக்க டெல்லியிலிருந்து வரும் முல்லை என்ற கதாப்பாத்திரம். முல்லைக்கு உதவி செய்ய வரும் இடது சாரி கொள்கைக் கொண்ட நவீன். இரத்தினக்

கற்கள் கிடைக்கும் இடங்களாக அறியப்படும் கற்கள் காங்கேயம் மற்றும் அதன் சுற்றுவட்டார காங்களில் அதைக் கைப்பற்ற எதையும் செய்யத் துவிந்த உள்ளூர் ஆட்கள் மற்றும் துண்டு அதே கற்களை அரசின் அரசியல்வாதிகள். அதே கற்களை அரசின் அரசுயல் விகப்பெரியதாக கரங்கமாகத் அனுமதியுடன் மிகப்பெரியதாக கரங்கமாகத் அனுமதாயுடன் தோண்டி எடுக்கும் முயற்சியில் இறங்கும் தோண்டி பெருநிறுவனம் அந்நிறுவனத்தின் ஆதரவில் பெருந்து இரத்தினக் கற்களைப்பற்றி ஆராய்சி செய்து வரும் இரத்து வரும் இப்படிப்பட்ட எல்லோரையும் றுகும் இணைக்கிறது இப்புதினம்.

# திலப்பதிகாரத்தில் நிலைபேறு

பூம்புகாரில் இறங்கிய முதல் நாளிலேயே அங்கிருக்கும் சுற்றுவட்டார சூழ்நிலைகளைப் பார்த்த முல்லை ஏமாற்றமடைகிறாள். புத்தகங்களில் பயுத்த பூம்புகாருக்கும் நேரில் காணும் பூம்புகாரையும் பார்த்து ஏமாற்றம் அடைந்து தூர்கள் எல்லாவற்றையும் முடித்துக்கொள்ளலாம் இத்துடன் எல்லாவற்றையும் முடித்துக்கொள்ளலாம் தன்று நினைக்கிறாள். அப்போது ஒரு அமானுஷ்யமான நிகழ்வு நடக்கிறது.

"முல்லையின் காதருகே மென்மையும் துயரமும் நிறைந்த ஒரு குரல் தெளிவாகக் கேட்கிறது. முல்லை நீ தேடி வந்தது வெறும் கட்டிடங்களையா? புதைந்து கிடக்கும் இந்த நகரத்தின் ஆன்மா இங்கே தானே இருக்கிறது. நானிருப்பது தெரியவில்லையா உனக்கு" (மிளிர்கல் ப.51) என்ற வரிகளின் மூலம் முல்லை ஊருக்குத் திரும்பி போகும் ண்ணத்தினை மறந்து தனது தேடலைத் தோடர்கின்றாள். அவளது கேள்விக்கான பதிலை अ. मीनीपांत

"சிலப்பதிகாரத்தையும் பூம்புகாரையும் கட்டிடங்களில் தேடியது எவ்வளவு முட்டாள் இந்த மக்கள்கிட்ட தனம் வாழ்ந்திட்டிருக்குது இதைத் தேடி வாழ்நாள் <sup>ஈல்லாம்</sup> அலைந்தவங்க வடிவத்தில் இந்த நூமும் காவியமும் வாழ்ந்திட்டிருக்கு இதைச் சொல்லத்தான் அவள் வந்தாள் போலிருக்கிறது"

என்று முல்லையின் கூற்றாக சிலப்பதிகாரத்தின் நிலைபேற்றை ஆசிரியர் உணர்த்தியுள்ளார்.

சிலப்பதிகாரம் உண்மையா? கற்பனையா ?

இப்புதினம் சிலப்பதிகாரம் உண்மையா? கற்பனையா? என்ற வினாவை முன்வைக்கிறது. "ஆமா சிலப்பதிகாரம் உண்மையிலேயே நடந்திருக்கும்னு நம்பறீங்களா?" நான் இந்த பீல்ட்ல வொர்க் பண்ணதில்லை ஆனா எந்தக் கற்பனையும் ஆகாயத்திலிருந்து குதிக்காது அவ்வளவு பெரிய காவித்துக் மாடல்ஸ் இல்லாம இருந்திருக்காது." (மேலது ப 62) என்ற ஸ்ரீ குமாரின் கூற்று வழி ஆசிரியர் சிலப்பதிகாரம் நடந்திருக்கலாம் என்பதினை உணர்த்தியுள்ளார்.

# சிலப்பதிகாரத்தை அரசியலில் பயன்படுத்துதல்

சிலப்பதிகாரத்தைத் தனது அரசியல் வளர்ச்சிக்காகத் திமுக தனக்கு சாதமாகப் பயன்படுத்திக் கொண்டதாக ஆசிரியர் கூறுகிறார். தேர்தல் அரசியலுக்கு திமுக வந்த பிறகு தனக்கௌத் தனி அடையாளங்களை ஏற்படுத்திக் கொள்ள வேண்டியிருந்ததால்

"காங்கிரஸ் முன்னிறுத்திய ராமாயணம் மகாபாரதம் பகவத்கீதைக்கு மாற்றாக திருக்குறள் சிலப்பதிகாரம் மணிமேகலை தமிழகத்திற்கே இலக்கியங்களை மாற்று அடையாளங்களை முன்னிருத்த வேண்டிய தேவை திமுகவிற்கு இருந்தது.." (மேலது ப 43) என்ற வரிகள் மூலம் சிலப்பதிகாரத்தை அரசியல் தேவைக்கும் பயன்படுத்திக் கொண்டதாக விளக்குகிறார்.

## கல்வணிகம்

எந்தச் சிலம்பைக் கொண்டு மாணிக்கப் பரல்களைக் கொண்டு கண்ணகி நீதியை நிலைநாட்டினாளோ அதே மாணிக்கம் இப்போது ஏழை மக்களை என்ன பாடுபடுத்துகிறது என்பதினைக் காட்டும் முயற்சியில் இப்புதினம் வாசகர்களை வேறொரு தளத்திற்கு இட்டுச் செல்கிறது. மிளிர்கல்லின் இதயமாக இப்பகுதித் திகழ்கிறது.

தவீனத் தமிழாய்வு (பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) மார்ச் 8-9, 2018 - சிறப்பிதழ் (ISSN 2321-984X) Mem Thamizh Research (4 இ Modern Thamizh Research (A Quarterly International Multilateral Thamizh Journal) பெற்ற கருத்தரங்கம் 2018 இத்தியர்.

<sup>21-</sup>ம் நூற்றாண்டுத் தமிழ்ப்புதினங்கள் (2001முதல்2017வரை...) . தேசியக் கருத்தரங்கம் -2018 தமிமாய்கள் 21-ம் நூற்றாண்டுத் தமிழ்ப்புதினங்கள் (2001முதல்2017வரை...) . தேசியக் கருத்துங்கம் 2018 இந்தியா. இந்தி

கொங்குப் பகுதியில் செமிபிரெசீயஸ் ஸ்டோன் என்றழைக்கக் கூடிய மாணிக்கம் மரகதம் கோமேதகம் நீலம் மற்றும் பச்சைக்கல் முதலிய கற்கள் கிடைக்கின்றன. அதனை பட்டைத் தீட்டும் தொழில் குஜராத் ராஜஸ்தான் போன்ற வட இந்திய மாநிலங்களில் நடைபெறுகிறது. இக்கற்களைப் பட்டைத் தீட்டும் போது அக்கல்லிலிருந்து வரும் சிலிக்கா கலந்த புகையை சுவாசிப்பதால் அவர்கள் சிலிகோஷிஷ் என்னும் நோயால் பாதிப்படைந்து இளம் வயதிலேயே மரணமடைய நேரிடுகின்றது. இப் புதினத் தைப் படைப் பதற் கான முழுநோக்கத்தினை இப்பகுதியில் ஆசிரியர் தகுந்த தரவுகளோடு விளக்கியுள்ளார்.

#### இரத்தினக்கல்

கண்ணகி கால் சிலம்பில் இருந்த இரத்தினக்கல் பற்றி ஆசிரியர் பிரமிப்புடன், விளக்கியுள்ளார்.

"மாணிக்கமும் செமிபிரஷ்யஸ் ஸ்டோன் தான். ரத்தச் சிவப்பு நிறத்துல இருக்கும் காங்கேயத்துல கிடைக்கக் கூடியதுதான். ரத்தினக் கற்கள் ளேயே 'ரூபி எனப்படும் மாணிக்கத்துக்கு தனி மரியாதை உண்டு. இதை ரத்னராஜ் அதாவது ரத்தினங்களின் அரசன்னு சொல்றாங்க. ஒரு அழகான நல்ல தரமான மாணிக்கம் கிடைத்தால் அந்தக் காலத்துல மன்னர்கள் ஊர் எல்லைக்கே தன்னோட அதிகாரிகளை அனுப்பி அதை மரியாதையோடு கொண்டு சொல்லுவாங்களாம். அப்படிப்பட்டது குமாரின் கூற்றின் மூலம் மாணிக்க கல்லின் சிறப்பினை எடுத்துரைத்துள்ளார்.

#### மதுரை செல்லும் வழி

சிலம்பில் மாங்காட்டு மறையோனிடம் மதுரை செல்லும் வழியைக் கோவலன் கேட்க அதற்கு மூன்று வழிகளைக் கூறுகிறான். அதில் நடுவழியை தேர்ந்தெடுத்து மூவரும் மதுரைக்குப் பயணமாவர். அவ்வழியை ஆசிரியர் இப்புதினத்துள் மிக அற்புதமாக எடுத்துக்காட்டியுள்ளார். நெடுங்குளம் ஹைவே ஓரமாக பஸ் நின்றதும் அதில் இருந்து இறங்கிய முல்லை நவீன் ஸ்ரீகுமார் மூவரும் சிறிது தூரம் நடந்து சென்றதும் சாலை இருவழியாக மட்டுமே பிரிவதைப் பார்க்கின்றனர். முல்லை ஏமாற்றம் அடைகிறாள். அப்போது அங்கிருந்த டீக்கடைக்காரர்

"திண்டுக்கல் ரோட்டைச் சொல்றீக்களாம்மா? ஆமா கிழக்க போற வழி புதுக்கோட்டை இராமநாதபுரம் போகுது. மேற்கே போற வழி திண்டுக்கல் நேராப் போனா மதுரை இப்ப ஹைவே வந்துட்டதால திண்டுக்கல் வழி தெரியல" (மேலது ப. 161) என்று வழி சொல்கிறார். திண்டுக்கல் சரிதான். மேற்குத் தொடர்ச்சி மலைகளுக்கு அருகே செல்லும்வழி மான்கள், காடு, எயினர் குடியிருப்பு

#### கண்ணகி கோயில்

முல்லை, நவீன், ஸ்ரீகுமார், கண்ணன் ஆகிய கதாப்பாத்திரங்கள் கோவலன் கண்ணகி பயணித்த பாதையையும் பிறகு கண்ணகி மட்டும் தனியாக நடந்த பாதையையும் கடந்து இறுதியாக கண்ணகி கோயில் என்று இடுக்கி மாவட்டத்து பழங்குடியின மக்கள் நம்பும் கோவிலுக்கு வந்து சேர்கின்றனர்.

"அந்தப் பாதையோரம் பாழடைந்து சிதிலமான கோவில் கட்டடங்கள் தென்பட்டன. முன் மண்டபங்கள் எதுவுமில்லாமல் வெறும் கருவறை போலத் தோன்றியதுதான் கண்ணகி கோயில்."

(மேலது ப 242)

இவ் வாறு கண்ணகி கோயில் சிதிலமடைந்திருந்தாலும் இன்று எல்லோர் மனதிலும் கண்ணகி சிம்மாசனமிட்டு அமர்ந்து கொண்டுதான் இருக்கிறாள் என்பதினை இப்புதினப் படைப்பே சான்றாகிறது.

#### நிறைவாக

நிறைவாக ஜெய்ப்பூருக்கும் காங்கேயத்துக்கும் கண்ணகி நம்மை அழைத்துச் செல்வாள் எந்த மாணிக்கப் பரல்களைக் கொண்டு

நவீனத் தமிழாய்வு (பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) மார்ச் 8-9, 2018 - சிறப்பிதழ் (ISSN 2321-984X) Modern Thamizh Research (A Quarterly International Multilateral Thamizh Journal) January 8-9, 2018- Special Issue (ISSN 2321-984X) 21-ம் நூற்றாண்டுத் தமிழ்ப்புதினங்கள் (2001முதல்2017வரை...) - தேசியக் கருத்தரங்கம்-2018 முதுகலை & தமிழாய்வுத்துறை, ஜமால் முகமது கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி-620 020, தமிழ்நாடு, இந்தியா. அவள் பாண்டியனை பழிவாங்கினாளோ எந்த மாணிக்கப் பரல்களுக்காக தமிழகம் ரத்தக்களறியானதோ எந்த மாணிக்கப் பரல்களுக்காக ஜெய்ப்பூர் ராஜஸ்தான் மக்கள் தங்கள் வாழ்வை இழந்து கொண்டிருக்கிறார்களோ அவர்களை எல்லாம் தேடிச் செல்ல வேண்டும். அந்த கற்களுக்காக நடத்தப்படும் சதிகளை வெளிச்சத்திற்குக் கொண்டுவரவேண்டும் என்று முல்லையும், நவீனும் உரையாடும் உரை மூலம் ஆசிரியர் புதினத்தை நிறைவு செய்துள்ளார்.

முடிவுரை

நெஞ்சையள்ளும் சிலப்பதிகாரம் போன்றே மிளிர்கல் புதினமும் நெஞ்சையள்ளுகின்றது. நின்ற கியின் மீது பூசப்பட்டிருந்த வரலாற்றுப் துவித் பிம்பத்தைக் கட்டுடைக்கும் வகையில் பு<sup>தை</sup> இப்புதினத்தை ஆசிரியர் படைத்துள்ளார். துப்பு இருந்த காற்சிலம்பில் இருந்த தன் நாணிக்கப்பரல்களின் பிறப்பிடமான வறண்ட நான்கு சமவெளிப் பகுதியினைப் புதினத்துள் நுழைத்துக் கதையின் போக்கினையே மாற்றி சிறந்த நுவழ்களியுள்ளார். கண்ணகியை மட்டும் <sub>மையப்பொருளாகக்</sub> கொண்டு ஆவணப்படம் ருக்க வந்த முல்லை கண்ணகியின் ளற்சிலம்போடு ஓட்டிய கல் வணிகம் பற்றியும் அத்தொழிலாளர்களின் நலம் பற்றியும் அவர்களுக்கு இழைக்கப்படும் அநீதிகள் அடிப்படையில் மாபெரும் போராட்டத்திற்கான ழுள்ளோட்டமாகப் புதினத்தை கொண்டு சென்ற விதம் பாராட்டுக்குறியது.

மிளிர்கல் - இரா.முருகவேள் முதற்பதிப்பு ஏப்ரல் 2014 பொன்னுலகம் புத்தக நிலையம் 4413 பாரதிநகர் 3வது வீதி திருப்பூர் 641603











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பல்வேறு தடைகளைத் தாண்டி, பதினாறாம் ஆண்டில் பயணித்துக் கொண்டிருக்கும் முத்துக்கமலம் இணைய இதழ் தங்களை அன்புடனும் மனம



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சமையல்	சிறப்பியல்பாக உள்ள மொழியைக் கொண்டு இலக்கியக் கலைத் தோற்றம் பெறுகின்றது. பண்டைக் காலத்தில் வாழ்ந்த தமிழ்ப் புலவர்கள் ஏராளமான
மருத்துவம்	இலக்கியங்களைப் படைத்து தமிழ் மொழியை வளம் செய்துள்ளனர். அவற்றுள் மிகத் தொன்மையானவை சங்க இலக்கியங்கள் ஆகும். சங்ககாலப் புலவர்கள்
புத்தகப் பார்வை	வாழ்வியலோடு நெருங்கிய தொடர்புடையவர்கள். தாம் வாழும் நாடு, சம்தாயம், மக்கள் இவைகளோடு மிக நெருக்கமாகத் தொடர்பு கொண்டு பல்வேறு
சுவையான தகவல்கள்	கருத்துக்களையும், அரிய செய்திகளையும், முக்கியக் குறிப்புகளையும் தங்களின் படைப்புகளின் வாயிலாகப் பதிவு செய்துள்ளனர். இக்கட்டுரையானது சங்க
சுற்றுலாத் தலங்கள்	இலக்கியமான எட்டுத்தொகை நூல்களில் காணப்படும் சில முக்கியத் தகவல்களை எடுத்தியம்புவதாக அமைந்துள்ளது.
மின் புத்தகங்கள்	இராமாயண, மகாபாரதக் குறிப்புகள்
தமிழ் வலைப்பூக்கள்	நம் நாட்டின் மிகப்பெரிய இரண்டு இதிகாசங்களான இராமாயணம், மகாபாரதம்
தேன் துளிகள்	நாட்டின் பெற்றிய குறிப்புகள் எட்டுத்தொகை நூல்களில் காணப்படுகின்றன. இளஞ்சேட் சென்னி பாழி இன்ற இடத்திலிருந்த வட வடுகரை வென்றவன். அவனை ஊன்பொது
படைப்பாளர்கள்	பசுங்குடையார் வந்து கண்டார். அவன் பகைவரிடமிருந்து பெற்ற அணிகலன்கள் பலவற்றை அவருக்கு பரிசாகத் தந்தான். அவ்வாறு புலவர் பெற்ற அணிகளை
தினம் ஒரு தளம்	அவருடன் வந்த சுற்றத்தார், காதணியை விரலில் அணிதல், விரலில் அணியக் கூடியதைக் காதில் அணிதல் முதலிய செயல்களைச் செய்தனர். அச்செயல்
பரிசு பெற்றவர்கள்	காண்பவர்களுக்கு
பரிசுத்திட்டம்	ுகடுந்தெறல் இராமன் உடன்புணர் சீதையை வலித்தகை அரக்கன் வெளவிய ஞான்றை
சமையல்	நிலஞ்சேர் மதர் அணி கண்ட குரங்கின்
இனிப்பு மற்றும் காரங்கள்	செம்முகப் பெருங்கிளை இழப்பொலிந்தா அங்கு அறாஅ அருநகை இனிது பெற் றிகுமே" (புறம்-378, பா.வ.17-21 ப-306)
சாதங்கள்	இராமனுடன் வந்த சீதையை மிக்க வன்மையுடைய அரக்கனான இராவணன்
இட்லி மற்றும் தோசைகள்	கவர்ந்து கொண்டு போன சமயத்தில், சீதை தன் அணிகலன்களைக் கழற்றி எறியக் கீழே விழுந்த அணிகளைக் கண்டெடுத்த குரங்கின், சிவந்த முகமுடைய
குழம்பு மற்றும் ரசம்	மந்திகளான சுற்றம், அந்த அணிகளை அணிந்து விளங்கிக் கண்டவர் நகைத்து மகிழ்ந்தது போல், இருந்ததாகக் கூறியுள்ளார்.
கீரை	பாண்டவர்களின் அரக்கு மாளிகைக்குத் துரியோதனன் தீ வைத்த நிகழ்வினைக்
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கலித்தொகை எடுத்தியம்புகிறது.

பச்சடி மற்றும் கூட்டு

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முத்துக்கமலம் குறித்த ஆய்வுகள்
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ISSN: 2321-0737

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UGC APPROVED INTERNATIONAL THAMIZH JOURNAL

# செம்மொழித் தமிழ்

(பன்னாட்டுப் பன்முகத் தமீழ் காலாண்டு ஆய்விதற்

Journal of

# **Classical Thamizh**

(A Quarterly International Multilateral Thamizh Journal)

தேசியக் கருத்தரங்கம்-2018

சிறப்பிதழ் : **தமிழாய்வுத்துறை** 

ஜமால் முகம்மது கல்லூரி (தன்னாட்சி) திருச்சிராப்பள்ளி–620 020, தமிழ்நாடு, இந்தியா

# தமிழ் இலக்கியங்களில் பெண் எழுத்தாளர்களின் படைப்பாளுமை

சிறப்பிதழ் ஆசிரியர்கள்

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தமிழாய்வுத்துறை, ஐமால் முகம்மது கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி–620 020.



Published by

#### **RAJA PUBLICATIONS**

No. 10 (Upstair), Ibrahim Nagar, Khajamalai, Tiruchirappalli - 620 023, Tamil Nadu, India.

Mobile: 9600535241 Website: www.rajapublications.com பகுதி-1 Part -1

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# பெண் படைப்பாளர்களின் சமூக நோக்கு

#### மு.ரேவதி

து துரும் குறியர். ஸ்ரீ இராமகிருஷ்ணா மகளிர் கலை மற்றும் அழிவியல் கல்லூரி கோயுமுக்கூரர் கோயமுத்தூர்

#### முன்னுரை

மனித வாழ்வின் சிறப்பியல்பாக அமையும் மொழியின் சொந்களையே ஊடு பொருளாகக் கொண்டு அமைவது இலக்கியம். மொழி என்னும் கருவி வாயிலாக வெளிப்படும் வாழ்க்கை அனுபவமே இலக்கியம் ஆகும். ஒட்டு மொத்த சமூகத்தின் குரலாக, சமூகத்திற்கான குரலாக ஒலிப்பதும், நம்பிக்கைகள், பழக்க வழக்கங்கள், கலாச்சாரம், வாழ்க்கைச் சூழல் என நடப்புக் காலத்தைப் பதிவு செய்வதும், பதிவு செய்த உணர்வை வாசகர்களுக்குக் கடத்துவதும் இலக்கியம் ஆகும். இலக்கியங்கள் என்பவை காலத்தின் பதிவுகளைக் கால வெளியில் சுமந்து செல்லும் வாகனங்கள் எனலாம். எந்த ஒரு படைப்பாளனும் ஏதாவது ஒரு நோக்கத்தினை மனத்தில் கொண்டே படைப்பிலக்கியப் பணியினை மேற்கொள்வர். அவ்வகையில் அவர்களது பணி இலக்கியப் பணியாகவும் அமையலாம் அன் நி சமூகப்பணியாகவும் அமையலாம். இதில் ஆண் பெண் பேதமில்லை இக்கட்டுரையானது புதுக் கவிதைகளில் பெண் படைப்பாளர்களின் சமூக அக்கறையினை எடுத்தியம்புவதாக அமைகின்றது.

## புதுக்கவிகை

"பாட்டினைப் போல ஆச்சரியம் பாரின்மிசை இல்லையடா" என்றும் "ஆசை தருங்கோடி அதிசயங்கள் கண்டதிலே ஓசை தரும் இன்பம் உவமையிலா இன்பமடா" என்றும் கவிதை இன்பத்தைப் போற்றி புகழ்கின்றான் பாரதி. சங்க காலம் முதல் தற்காலம் வரை தனக்கானத் தலைமையிடத்தைத் தொடர்ந்து தக்க வைத்துக் கொண்ட இலக்கிய வடிவம் கவிதை ஆகும். 473 சங்கப் புலவர்களுள் 41 பேர் பெண்பாற் புலவர்கள் அன்று முதல் இன்று

பெண்கள் தனது படைப்பாளுள்ள வரை பெண்கள் வெளிப்படுத்திக் கொண்டேதான் இருக்கிறாக ளெள்பாகுத்த இருப்பினும் ஆண் கவிஞர்களுடன் ஒப்பிற்ற பெண் கவிஞர்களின் எண்ணிக்கை குறை புதுக்களிதையில் படைப்பாளர்கள் எவ்வாறு தனது அக்கறையினை வெளிப்படுத்தி உ என்பதினை பின்வருமாறு காணலாம்.

## இயற்கை மாறுபாடு

கவிஞர் தமிழச்சி தங்கபாண்டியன் வணிந்த என்ற கவிதை நூலில்,

தகிக்கும் வெட்கையின் உக்கிரம் கண்டு செரிக்க முடியாமல் பொறுமிக் கிடக்கிறது ஊர் மழைத் தண்ணீரில் வாய் கொப்பளித்த வசந்த காலம் செம்பு சொல்லும் செவிவழிச் செய்தி மட்டுமே உலைத் தண்ணீருக்கே உப்புக் கரிக்கும் உள்ளங்கை அளவு ஊருணிதான் தற்சமா

இயற்கையின் மாறுபாட்டால் மழை இல்லால் வெயில் கூடுதலாகி விட்டது குறித்த கவிதையில் கூறுகின்றார். இதன் மூலம் இந்த மாற்றத்திற்கான காரணங்களை அந்த 🤲 சீர செய்யவேண்டும் என்ற எச்சரிக்கை உண்க சமுதாயத்திற்கு ஏற்படுத்தியுள்ளர்.

## மனித நேயம்

சமுதாயத்தில் பொருளாதா நிலக் உயர்ந்த நிலையில் வாழும் மக்கி நேயமற்றவர்களாகவே உள்ளனர் என்றத்தை

செம்மொழித் தமிழ் (பன்னாட்டுப் பன்முகத் தமிழ் காலாண்டு ஆய்விதழ்) அக்டோபர் 15, 2018 - சிறப்பிதழ் (ISSN 2014) Classical Thamizh (A Quarterly International Multilateral Thamizh Journal) October 15, 2018- Special Issue (ISSN 2018) இலக்கியங்களில் வெள்ள தமிழ் இலக்கியங்களில் பெண் எழுத்தாளர்களின் படைப்பாளுமை – தேசியக் கருத்தரங்கம்-2018 தமிழாய்வுத்துறை இருந்து இது நடித்தாளர்களின் படைப்பாளுமை – தேசியக் கருத்தரங்கம்-2018 முதுகலை & தமிழாய்வுத்துறை. ஐமால் முகம்மது கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி-620 020, தமிழ்நிடு

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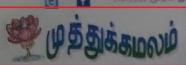
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முதல் இணையத்தில் ஒரு இலக்கியப் படைப்பு! இது தமிழ் ஆர்வலர்களின் இலக்கிவத் குடிப்பு?





உலகத் துகிழார்வலர்களின் This Stimble ormanie

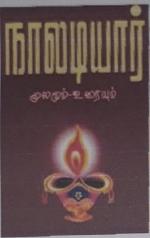
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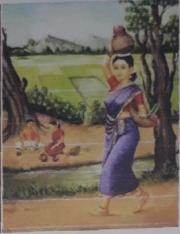
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நாலடியார் காட்டும் அறம்

மு. ரேவதி பாரத் ஸ்ரீ இராமகிருஷ்ணா மகளிர் கலை அறிவியல் கல்லூரி, நியூ சித்தாபுதார், கோயம்புக்தார்.





நாலடியார் பதினெண் கீழ்க்கணக்கு நூல் வகையைச் சார்ந்த நீதி நூல் ஆகும். இது நான்கு அடிகளைக் கொண்ட வெண்பாக்களால் ஆனது. இது சமண முனிவர்களால் இயற்றப்பட்ட நானூறு தனிப்பாடல்களின் தொகுப்பாகும். இதை நாலடி நானூறு என்றும், வேளாண் வேதம் என்றும் வழங்குவர். வாழ்க்கையின் எளிமையான பொருட்களை உவமையாகக் கையாண்டு நீதி புகட்டுவதில் நாலடியார் தனித்துவம் பெற்று விளங்குகின்றது. ஆலும் வேலும் பல்லுக்குறுதி; நாலும் இரண்டும் சொல்லுக்குறுகி, சொல்லாய்ந்து நாலடி நானூறும் நன்கு இனிது, பழகுதமிழ் சொல்லருமை நாவிரண்டில் என்னும் கூற்றுக்கள் திருக்குறளுக்கு இணையாக நாலடியாரைப் போற்றுவதை உறுதி செய்கின்றன. அத்தகைய சிறப்பு வாய்ந்த நாலடியார் புகட்டுகின்ற அறத்தினை எடுத்துரைப்பதே இக்கட்டுரையின் நோக்கமாகும்.

#### செல்வம் நிலையாமை

ுதுகள்தீர் பெருஞ்செல்வம் தோன்றியக்கால் தொட்டுப் பக்டு நடந்தகூழ் கல்லாரோ டுண்க அகடுற யார் மாட்டும் நில்லாது செல்வம் சகடக்கால் போல வரும்" (நா-2 ப. 6)

செல்வம் ஒருவரிடம் மட்டுமே நிலைத்து நிற்காமல் வண்டியின் சக்கரம் போல பலரிடமும் சுழன்று செல்லக்கூடியது. எனவே மக்கள் ஏர் பூட்டி உழவுத்தொழிலால் நல்வழியில் உற்பத்தி செய்த செல்வத்தையும் உணவையும் அனைவர்க்கும் பகிர்ந்து கொடுத்து தாமும் அனுபவிக்க வேண்டும் என்று கூறுகிறது.

#### அறன் வலியுறுத்தல்

நம் வாழ்நாளில் இறுதி நாள் இன்றோ, நாளையோ, வேறு எந்நாளோ என்று வீணாகச் சிந்தித்துக் கொண்டு இருக்காமல் உன் உயிரைப் பறிப்பதற்குக் காலன் காத்திருக்கிறான் என்பதை மட்டும் உணர்ந்து இன்று முதலே தீய செயல்கள செய்வதை விடுத்துப் பெரியோர்கள் கூறிய அறச்செயல்களைச் செய்யுங்கள் என்று கூறுகிறது. மேலும், சிறிய அளவிலான ஆலம் விகை கழைக்கு எல்லையற்று விரிக்க நிழலைத் தருவது போல அறச்செயல்களின் பயனாகிய புண்ணியமும் செய்வது சிறியதாக இருந்தாலும் தக்கவரிடம் சென்று அடைந்தால் வானமே சுறுக்கும் போகும்படி பெரிய புண்ணியப் பயனைத் தரும் என்று கூறுகிறது.



மாண்புமிகு தமிழ்நாடு முதலமைச்சர் ஜே. தெயல்லிதா அவர்களிடமிருந்து தமிழ் விக்கீப்பீடியா" எனும் நூலுக்காகத் தமிழ்நாடு அரசின் தமிழ் வளர்ச்சித் துறையின் சிறந்த நூலாசிரியருக்கான பரிசு மற்றும் பாராட்டுச் சான்றிதழினைப் பெறுகிறார் தேனி மு. சுப்பிரமக (13-04-2012)

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போது மகுத்துவம்

சினம் இன்மை

#### Muthukamalam.com / Essay Literature - கட்டுரை - இலக்கியம்

"காவா தொருவன்தன் வாய்திறந்து சொல்லுஞ்சொல் ஒவாதே தன்னைச் சுடுதலால்..." (நா. 63 ப. 39)

கோயம் கொண்டு ஒருவன் அடக்கம் கெட்டுக் கூறிய கோபச்சொல் எக்காலத்திலும் சொன்னவனையே வருத்தும். எனவே, ஆராய்ந்து தெளிந்த ஞானம் உடையவர்கள் அந்தகையக் கோப மொழிகளைக் கூறமாட்டார்கள் என்கிறது. மேலும் கீழ்மக்கள் கொண்ட கோபமானது, நீண்ட காலமானாலும் தனியாமல் பெருகிக்கொண்டே போகும். ஆனால் சான்றோர்கள் கொண்ட கோபமானது, கொதிக்கும் போது வெப்பம் அடைந்த நீர் பின்னர் தானே தணிந்து விடுவது போன்று தணிந்து விடும் என்று

#### போரையாடை வம்

"அரிவ தறிந்தடங்கி அஞ்சுவ தஞ்சு உறுவ துலவெப்பச்செய்து- பெறுவதனால் இன்புற்று வாழும் இயல்பினார் எஞ்ஞான்றும் துன்புற்று வாழ்தல் அரிது" (நா. 74 ப. 45)

நன்கு கற்று அறிய வேண்டியதை அறிந்து, அடக்கம் உடையவராம் பயப்பட வேண்டியதற்குப் பயந்தும், தமக்குத் தகுந்தவாறு உரிய செயல்களை உலகம் மகிழுமாறு செய்து அதனால் அடையத்தகும் பயனைப் பெற்று இனிமையோடு வாழ்பவர் வாழ்க்கையில் எக்காலத்திலும் துன்பம் என்பதே இல்லை என்று கூறுகிறது.

#### பிறன்மனை நயலாடை

அறம்புகழ் கேண்மை பெருமை இந்நான்கும் பிறந்தாரம் நச்சுவார்ச் சேரா..." (நா. 82 ப. 49)

தருமம், புகழ், நட்பு, பெருமை ஆகிய இந்நான்கும் பிறன் மனைவியை விரும்புவரிடம் சேராது. அத்தகையோரிடம் பகை, பழி, பாவம், பயம் ஆகிய நான்கு தீயபண்புகள் தான் சேரும் என்கிறது.

இனிப்பு மற்றும் காளக்கள் எகை

பச்சடி மற்றும் கூட்டு

தம்மிடம் பொருள் இல்லாத போதும், பிறரிக்கு இயன்ற அளவு பொருள் உடையவர் போன்று பெரிதும் மகிழ்ந்து கொடைத்தன்மையோடு விளங்கும் ஈகைக் குணம் கொண்ட மாந்தர்க்கு அடுத்தப் பிறவியில் பேரின்பமாகிய வீட்டுக்குச் செல்லும் கதவுகள் அடைப்படாமல் திறந்தே இருக்கும் என்கிறன்றது. மேலும்,

> "இம்மி யரிசித் துணையானும் வைகலும் நும்மில் இயைவ கொடுத்துண்டின்..."(நா. 94 ப. 55)

இம்மியளவு அரிசியானாலும், உம்மை அடைந்தவர்க்கு நாள்தோறும் கொடுத்து, அதன்பிறகு உணவு உண்ண வேண்டும். முற்பிறவியில் யாருக்கும் கொடுக்காதவர்களாய் இருந்தவர்களே கடல் தழ்ந்த இவ்வுலகில் வறியவர்களாக இருக்கிறார்கள் என்று சான்றோர்கள் கூறுவதாகக் கூறுகிறது.

்குஞ்சு யழகும் கொடுந்தானைக் கோட்டழகும் மஞ்சன் அழகும் அழகல்ல நெஞ்சத்து நல்லம்யாம் என்னும் நடுவு நிலைமையால் வடகம் மற்றும் அப்பளர். கல்வி யழகே அழகு"(நா. 131 ப. 74)

தலைமுடியின் அழகும், வண்ணமிகு ஆடையின் அழகும், வாசனைப் பூச்சின் அழகும் உண்மையான அழகாகாது. நாம் நல்லவர்களாக இருக்கிறோம் என்னும் உறுதிப்பாட்டினைத் தருகின்ற ஒழுக்கம் தரும் கல்வியைப் பெறுதலே சிறந்த அழகாகும்.

கல்லினம் சேர்தல்

"பாலோடு அளாயநீர் பாலாகும் அல்லது நீராய் நிறந்தெரிந்து தோன்றாதாம்..." (நா. 177 ப. 95)

பாலுடன் நீரைக் கலத்தால், நீரானது தன் நிறம் கெட்டுப் பாலின் வெண்மை நிறமடையும். அதுபோல, கீழ்மக்கள் ஆனாலும் பெரியோருடன் சேரும் போது பெருமை பெறுவர், மேலும், ஊரிலுள்ள சாக்கடை நீர் கடல் நீரோடு சேர்ந்தால் அதன் பெயரும் மாறிப் புனிதம் நிறைந்த தீர்த்தமாகிப் பெருமை கொள்ளும். அது போல நற்குலப் பெருமை இல்லாதவரும், நல்ல மாட்சிமை உடையோரைச் சாரும் போது அவர்களும் மலை போன்ற சிறப்பை அடைவார்கள் என்கிறது.

முத்துக்கமலத்தில் உங்கள் படைப்புமி இடம் பெற வேண்டுமா?



#### நட்பில் பிழை பொறுத்தல்

நெல்லில் உமியும், நீரில் நுரையும், பூவில் வாசனையற்ற புற இகழும் ஆகிய வேண்டாப் பகுதிகள் இருக்கும். இவைபோலவே, நாம் நல்லவர் என மிகவும் விசூம்மி நட்புக் கொள்கின்றவரிடமும், சிறுசிறு குறைகள் இருக்கும். இக்குறைகளைக்

பார்கவி லாபம் தரு இறாள்

பாகியாரின் கேகிய கீகங்கள்

பலய சிறகுகள்

புதுமைப்பிக்கள் சிறக்கைகள் புதுமைப்பிக்கள் மொடுபெயர்க்க சிறக்கைகள்

பெரும்பான் ஆற்றப்படை

QumiaGaar

பொய்ம் (மகங்கள்

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கண்டால் பொறுத்து, அவரை நம்முடனே சேர்த்து வைத்துக் கொள்ளவேண்டும் என்கிறது.

தன்மானம் உடையவர்கள் எலும்பு தேய்ந்து, தசை அழிந்தாலும் நற்குணம் இல்லாதவரிடம் தங்களுடைய துன்பங்களைக் கூறமாட்டார்கள். தம் வறுமை நிலையைத் தாம் உரைப்பதற்கு முன்பே உணர்ந்து உதவ வல்ல அறிவுடையவரிடமே சென்று தம் துன்பத்தைக் கூறி உதவி வேண்டுவர் என்கிறது.

தனக்கு ஒரு நன்றியைச் செய்தவர்கள், பின்பு நூறு கெடுதல்களைச் செய்தாலும் சான்றோர் பொறுத்துக் கொள்வர். ஆனால் கயவர்களுக்கு எழுநூறு நன்மைகள் செய்து பின்பு ஒன்று கெடுதியாக அமைந்தாலும் அவ்வெழுநூறு நன்மைகளும் மறந்து அவர்களால் தீமைகளாகவே கருதப்படும் என்கிறது.

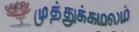
#### முடிவுரை

சான்றோர்களின் பட்டறிந்த உண்மைகளே அறக்கருத்துகளாக நாலடியார் நூல் முழுவதும் விரவிக்கிடக்கின்றன. அவ்வறக் கருத்துக்களை மக்கள் மனதில் நன்கு உள்வாங்கிக் கொண்டு வாழ்வினை வாழ முற்பட்டால் அவர்களின் வாழ்வும் சமுதாயமும் மேன்மையடையும்.

#### பயன்பட்ட நூல்

1. நாலடியார் மூலமும், உரையும், தமிழ்ப்பிரியன், அருணா பப்ளிகேஷன்ஸ், சென்னை - 49.

கட்டுரை - இலக்கியம் | மு. ரேவதி பாரத் | படைப்பாளர்கள்



இது முத்துக்கமலம் இணைய இதழின் படைப்பு.

இணைய பக்க முகவரி: http://www.muthukamalam.com/essay/literature/p222.html

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மாமருத்துவம்



வீரப்பலகாரம் தெரியுமா? உங்களுக்கு ஒண்ணுமே இல்ல...! இலையுதிர் காலம் வராது! கண்ணதாசனின் நகைச்சுவைகள்

குட்டிக்கதைகள்

தகுது இல்லாமல் தம்பட்டம் அழுத்துக் கொள்ளலாமா? அவ்பட்டுயான்ன 54 அருக்கள் லங்கள் கழுதையின் புத்திசாலித்தனம் விற்ற மரத்தைத் திருப்பிக் கேட்கலாமா? தலைமை ஒன்றுக்கு அதிகமாக இருக்கலாமா?

முருகா என்றால் என்ன கிடைக்கும்? குரு சினை ஏற்கும் கிட்சை முறைகள் விபூகியின் தத்துவம் கோயிவ்களில் பாவியல் கிஸ்பங்கள் என்

தேனி மு. சுப்பிரமணி எழுதிய நூல்கள்















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# மரணத்தின் மணமுள்ள இலை

சி.வி.பாலகிருஷ்ணன்

தமிழில்: **நா. தீபா சரவணன்** 

**எ**ங்களுக்கு மிகவும் வேண்டிய குாயாச்சனிடம் ஸ்பெலிஷ்ட் டாக்டா சொன்னது, மூன்று வாரத்திற்கு மேல் ஆயுசு இல்லை என்று. டாக்டா அப்படி முடிவாகச் சொன்னதைக் கேட்டு எங்களுக்கெல்லாம் மிகவும் வருத்தமாயிற்று. குாயாச்சன் நிரந்தரமாக எங்களை விட்டுப் பிரியப்போகிறார். மரணத்தின் உலகம் அவருக்காகக் காத்திருக்கிறது. நாங்களோ முற்றிலும் யாரும் இல்லாதவாகளாகி விடுவோம்.

"ஏசு மேல் சத்தியமாகச் சொல்றேன், இத்தனை நல்ல குணங்கள் நிறைந்த ஒருத்தரை நான் யாரையும் பார்த்ததில்லை" என்று எஃப்ரோஜினா சொன்னாள்.

எளிமை வாய்ந்த வீட்டோடு சோந்து சிறிய ஹோட்டல் நடத்துகின்ற எஃப்ரோஜினாவிற்கு இடவக்கரை முழுவதும் தெரியும். அதுமட்டுமல்ல, வருபவாகளும் போகிறவாகளுமாக ஒரு நாளைக்கு நிறைய பேரைக் காண்கிறாள். அவாகளிடம் நல்ல பழக்கமுண்டு.

ஓவ்வொன்றாகக் வாத்துமுட்டைகளை கண்ணாடிக்கூட்டில் அடுக்கி வைத்துக் கொண்டிருந்தாள் எஃப்ரோஜினா. அடுப்பு வேலையில் மகள் ஜெஸிந்தா, அவளை மணந்த ஜெரால்டு மேசைக்குப் பக்கத்தில் உட்காந்திருந்தான். ஜெரால்டைப் பற்றிச் சொல்ல வேண்டுமானால், அவன் ஒரு வியாதியஸ்தன் போல இருப்பான். இளைஞனின் சுறுசுறுப்பும் மிடுக்கும் கிடையாது. மெலிந்த உடல். ஜெஸிந்தா உருண்டு கொழுத்து ஒரு வாத்தைப்போல. அவாகள் இருவருக்கும் ஒரு பொருத்தமுமில்லை. இருந்தாலும் அன்புடன்தான் வாழ்ந்தார்கள். அவர்களின் குழந்தையின் குர்யாச்சனாயிருந்தார். மாமோதிசா ( தலதொட்டப்பன் சடங்கிற்கிடையில் பள்ளியில் ஃபாதரையும், ஆள்கூட்டத்தையும் கண்டு அழத்தொடங்கிய குழந்தை எஃப்ரோஜினா, ஜெஸிந்தா, சின்னம்மா, க்ளோரியா ஆகியோரின் சமாதான வார்த்தைகளுக்குக் கொஞ்சம்கூட செவி சாய்க்காமல், கடைசியில் குாயாச்சன் கையில் துாக்கி சுற்றியபோதுதான் அழுகை நின்றது என்பதை ஒரு திவ்ய அனுபவமாக நாங்கள் நினைவு கூறுகிறோம். அப்படி பள்ளிக்குள் சுற்றி நடக்கும்போது குா்யாச்சன் குழந்தையின் இளம் காதுகளில் என்ன

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# நித்திரை தொடராமல் கனவில்லை

- Monday, June 18, 2018, 11:14
- இலக்கியம், சிறுகதைகள்
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தீபா சரவணன் உதவிப்பேராசிரியர் ஸ்ரீ இராமகிருஷ்ணா மகளிர் கலை அறிவியல் கல்லூரி, கோவை,

## நித்திரை தொடராமல் கனவில்லை

ஒரு வடிவம் உருவகப்படுகிறது. நீட்டிப்பிடித்த கைத்தலங்களின் இரயில். ஓவர் பிரிட்ஜிற்கு நேராக தெற்கிலிருந்து வருகின்ற இரயில். மரணம், ஃபாஸ்பென்டர் கூறியதுபோல தண்மையானதா? என்று இப்போது தெரியும். 'ஆக்ஷன்!' கைகள்

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# மகனின் பிம்பம் – சிறுகதை

- Friday, December 21, 2018, 10:00
- இலக்கியம், சிறுகதைகள், மொழிபெயர்ப்பு
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## -முனைவர் நா. தீபா சரவணன்

மூலம்: சி.வி.பாலகிருஷ்ணன்

மொழி: மலையாளம்

தமிழில்: முனைவர் நா. தீபா சரவணன்

## <u>மகனின் பிம்பம்</u>

தன்னைக் காத்து நிற்கும் மகனுக்கு முன்னால் மிக வேக இரயிலிலிருந்து பாதி பகலிற்கும் ஒரு முழு இரவிற்கும் பின் விடியற்காலையில் பிளாட் பாமில் வந்திறங்கினார் பெரியவர். இரயில்வே அறிவிப்புகளில் கேட்டது போலவே இரயில் சரியான நேரத்திற்கு வந்தது. பையை நானே தூக்கிக் கொள்கிறேன் என்று சொன்ன போதும் மகன் ஒத்துக்கொள்ளவில்லை. அவருடைய இரண்டு ஜோடி துணிகளும்

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# ஒப்பியல் நோக்கில் தமிழ் – மலையாளச் சிறுகதைகள் (நாஞ்சில்நாடன், சி.வி.பாலகிருஷ்ணன்)

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#### A PROSPECTIVE STUDY ON ASSESSMENT OF CLINICALLY POTENTIAL DRUG-DRUG INTERACTIONS IN HOSPITAL AND COMMUNITY **PHARMACY PRESCRIPTIONS**

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Sarah WAY LONDO, Jean-Jeannot JUAKALI SKV, and Francine NSUADI MANGA

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#### Antibacterial activity of crude extracts and pure compounds isolated from Vernonia galamensis leaves

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#### Characterisation of drug loaded with poly-beta-hydroxyl-butyrate (PHB) nanoparticles onto the cotton gauze for tuberculosis

Nanoparticles are of current interest because of their emerging understanding effects on human health. Many developed nanoparticles were created based upon the current application. The application of nanoparticles in drug delivery of pharmaceuticals offers many advantages on the treatment strategies and therapy outcomes. Poly-beta-hydroxyl-butyrate (PHB) nanoparticles are very versatile and its design could be tailored...

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# African Journal of Pharmacy and Pharmacology

Full Length Research Paper

# Characterisation of drug loaded with poly-betahydroxyl-butyrate (PHB) nanoparticles onto the cotton gauze for tuberculosis

Mekala M.\* and Suganya K.

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Received 31 October, 2017; Accepted 18 January, 2018

Nanoparticles are of current interest because of their emerging understanding effects on human health. Many developed nanoparticles were created based upon the current application. The application of nanoparticles in drug delivery of pharmaceuticals offers many advantages on the treatment strategies and therapy outcomes. Poly-beta-hydroxyl-butyrate (PHB) nanoparticles are very versatile and its design could be tailored to the needs of individual drug. Biodegradable polymeric PHB are able to provide controlled release of the encapsulated drug and it could be prolonged or enhanced. The emergence of PHB group of polymers as a potential cheap biomaterial may also become an interesting alternative in the production and controlled release manner. The Global Tuberculosis Report published by WHO revealed an increasing incidence of drug resistance and patients need to be treated for the period of 18 to 24 months using second line, anti- tuberculosis (TB) drug. Rifampicin, an anti tuberculosis drug, was chosen to incorporate in both types of nanoparticle production and it is delivered to the patients for wound healing (Tuberculosis patients) by microencapsulation. The nanoparticles were developed using single emulsion evaporation formed into the microspheres with regular or irregular morphology and the varying size efficiencies and particle size distributions. The microencapsulation of drug with PHB was coated onto the cotton gauze for wound healing. Physical and chemical analysis for he developed cotton gauze for wound healing.

Key words: Poly-beta-hydroxyl-butyrate (PHB) nanoparticles, cotton gauze, drug, tuberculosis.

#### INTRODUCTION

During last decade, pharmaceutical companies and other scientists have carried out extensive research on drug delivery. Patients with pulmonary tuberculosis and extra pulmonary tuberculosis with local skin rashes such as pruritus, with or without erythema which does not cure

completely with a single dose, but it needs prolonged treatment with antituberculosis drug Rifampicin. Rifampicin inhibits the gene transcription of mycobacteria by blocking the DNA-dependent RNA polymerase, which prevents the bacillus from synthesizing messenger RNA

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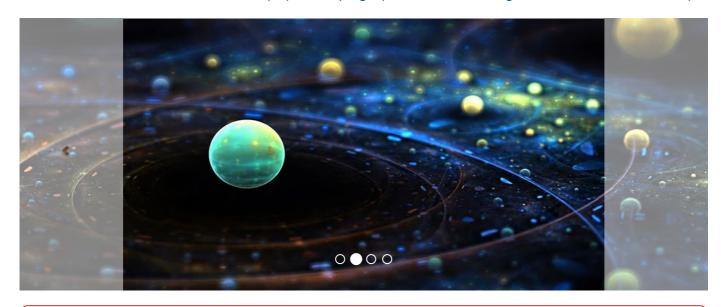
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METAL LEACHATE ANALYSIS OF ASPERGILLUS AWAMORI TREATED WASTE FOUNDRY SAND

N.GUNASHEELA\*, DR.HEMA SHENPAGAM

COIMBATORE, TAMILNADU, INDIA



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ISSN 2249-3352 (P) 2278-0505 (E) Cosmos Impact Factor-5.86

#### Metal Leachate Analysis of Aspergillus awamori treated Waste Foundry Sand

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#### **Abstract**

Waste foundry sand (WFS) consists primarily of, uniformly sized, high-quality silica sand or lake sand that is bonded to form molds for ferrous and nonferrous metal castings. Indian foundry industry is the 4<sup>th</sup> largest casting producer in the world. These foundries generates approximately 17, 10000 tones WFS/year. Microbial research and the need for new methods for the removal of heavy metals and other contaminants led to the great deal of expansion in the field of biological methods of industrial waste clean-up. Understanding the leach ate characteristics of WFS is essential in its disposal, environmental impact, and potential development for beneficial utilization towards solid waste management. This study was aimed to present an *Aspergillus awamori* treated WFS and studied its metal leachate test.

Keywords: Waste foundry sand, 18s rRNA Sequencing, metal leach ate analysis

#### 1. Introduction:

Waste Foundry Sand (WFS) is one of such by-products or considered as waste discarded material coming from ferrous and non-ferrous metal casting industry. Waste Foundry Sand consists primarily of, uniformly sized, high quality silica sand that is bonded to form molds for ferrous(iron and steel) and non ferrous(copper, aluminium, brass) metal castings (Rafat Siddque et al.,2010). It contains high content of silica sand with uniform physical characteristics which is used by the foundry industry to create metal casting molds (Winkler, ES, et al., 2000).WFS contains different heavy metal-leachate which needs to be treated before discharged. The leachate from such materials may contain dangerous compounds, which may possibly affect the atmosphere. But with the scarcity of space for land filling and due to its ever increasing cost, waste utilization from these industries has become an alternative to disposal.

Research is a being carried out on the utilization of waste products in concrete as a replacement of natural sand. Discarded tyres, plastics, glass, burnt foundry sand and coal combustion by products

Received: 5 July Revised: 13 July Accepted: 22 July Index in Cosmos

August 2018 Volume 8 Number 8

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# ENVIROSAFE DYEING AND ANTIMICROBIAL ACTIVITY OF COTTON FABRICS FINISHED WITH FLORAL EXTRACT FROM NERIUM OLEANDER

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#### **PUNJAB AGRICULTURE UNDER COLONIALISM**

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ASSISTANT PROFESSOR, DEPARTMENT OF HISTORY, GURU NANAK GIRLS COLLEGE, SANTPURA, YAMUNANAGAR



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ISSN 2249-3352 (P) 2278-0505 (E)

"Envirosafe dyeing and antimicrobial activity of cotton fabrics finished with floral extract from Nerium Oleander"

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**Abstract**: Cotton fabrics were dyed with natural colouring matter extracted from *Nerium oleander*, important herbal plant grows in garden. The dyeing pigments were extracted from *Nerium oleander* by four different solvent extraction methods. The antimicrobial activity of the dyeing pigments was tested against skin pathogens. The result revealed that the extracted solvents had an excellent activity against *Pseudomonass*p and different shades of pink colour were obtained from the dye when subjected to mordant. Thus, the colour dye extracted from *Nerium oleander* can be used for coloration of cotton fabrics.

Keywords: Cotton fabrics, Antimicrobial activity, Mordant, Natural dye, Nerium oleander.

#### 1. INTRODUCTION

The acquaintance of ecology abuse associated with processing and absolution of synthetic dyes has been led to animate a new appeal in dyeing with natural extracted dyes and today it is arising globally due to the actuality that they are safer and added environment-friendly. As a result, the appliance of natural dyes is considered as a better alternative to synthetic dyes [1]. Most of the natural dyes have no substantively for the fibre and are appropriate to be acclimated in affiliation with mordant. A mordant, usually a metallic salt, is regarded as a chemical, which can itself be fixed on the fibre and also combines with the dyestuff. A link is formed between the fibre and the dye, which allows certain dyes with no or little affinity for the fibre to be fixed. The natural dyes from plants were traced long time ago. In India 450 plants are found to be good source of natural dye [2].

Textile materials are prone to microbial growth and multiplication resulting into discoloration, objectionable odour, dermal infection, product deterioration, allergic responses and other related ailment. There is, therefore, an increased inclination across the world in functional textiles that can provide a higher level of hygiene, safety and healthprotection to people [3]. Neriumoleander is a small evergreen shrub of 2-5m in height belongs to the family Apocynaceae, is used for the present study [4].

#### 2. MATERIALS AND METHODS

#### 2.1. SAMPLE COLLECTION:

The Nerium oleander (pink) was collected from the temple and the garden (fig.1) from various places of Coimbatore. The collected flowers were made to dry under sunlight (fig.2) and then they are stored in a container for further study.

9 Received: 5 February Revised: 13 February Accepted: 22 February Index in Cosmos

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# FLORISTIC STUDY OF SURROUNDING SAKHARA DAM REGION, DAHANU TALUKA OF PALGHAR DISTRICT, MAHARASHTRA STATE, INDIA

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G.NARENDER1, G.SREEDHAR SARMA2 AND K.GOVARDHAN3
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A STUDY ON ISOLATION, PARTIAL PURIFICATION AND ANTIMICROBIAL ACTIVITY OF LACTOFERRIN FROM MILK PRODUCTS AND ITS APPLICATION ON WOUND INFECTIONS

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# A study on isolation, partial purification and antimicrobial activity of Lactoferrin from milk products and its application on wound infections

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#### Abstract:

Lactoferrin (Lf), an iron-binding glycoprotein with multifunctional properties which are useful in clinical and commercial applications. Lf has some advantages like antibacterial activity, antioxidant effects and act as immune enhancer in both children and adults. In this study, the antimicrobial activity of Lf can be determined using various milk products such as Colostrum, Milk and Whey, against common wound pathogens after partial purification, Lf estimation and SDS PAGE Analysis. Moreover, the result showed that Lf content is more in colostrum than other two samples. When compared with crude and partial purified preparations of samples, partial purified Lf has excellent activity and its antibacterial activity was high against Pseudomonas sp.

Keywords: Antibacterial activity, Colostrum, Milk, Lactoferrin (Lf), SDS PAGE Analysis, Whey.

#### 1. Introduction

Lactoferrin (LF) is an 80 kDa iron-binding glycoprotein of the transferrin family that is expressed in most biological fluids and is a major component of the mammalian innate immune system [1]. Owing to its iron-binding properties, lactoferrin has been proposed to play a role in iron uptake by the intestinal mucosa and to act as a bacteriostatic agent by withholding iron from iron-requiring bacteria[2].

Colostrum contains many cells, repair and growth factors which are responsible for healthy cell growth and repair of tissues like the skin, muscle, cartilage and bone. Colostrum powder dressing has certain advantages over conventional dressing, like healthy granulation tissue formation, greater reduction in inflammatory cells, decreased days of healing and decreased pain[3].

Milk, the only complete food or nutritious product, provides all the necessary nutrients to all the mammals including human from neonate age to adults due to its diverse content of nutritional compounds such as fats, carbohydrates, proteins, peptides, vitamins, growth factors, etc. Apart from nutritional compounds of milk, bioactive compounds are present in the milk in minor amounts as compared to other nutritional compounds. Recent advances in research showed that neonates are protected from various microbial infections and cancer due to the presence of such bioactive compounds in the colostrum as well as the milk. As compared to the mature milk, colostrum contains higher amounts of bioactive compounds. These bioactive compounds possess multifunctional

Received: 5 June Revised: 13 June Accepted: 22 June

Index in Cosmos

July 2018 Volume 8 Number 7



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ISSN 2249-3352 (P) 2278-0505 (E)

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activities such as antimicrobial, anti-inflammatory, antioxidative, anticytotoxic, anticancer, immunomodulatory and mineral carrying activities[4][5].

(WPs) include a heterogeneous group of proteins, including serum albumin,  $\alpha$ -lactalbumin, immunoglobulin, lactoferrin and peptidoglycan recognition protein. Dietary whey supplementations may improve wound healing by increasing GSH synthesis and cellular antioxidant defense.

Wound dressing plays one of the important roles in wound healing. Biological dressings like Lactoferrin dressings create the physiological interface between the wound surface and environment which is impermeable to bacteria. LF dressings are safe, promoter of wound healing, more patient compliance in terms of less pain, less number of dressing required. LF dressings may be used as an adjunct in management of deep wound [6].

#### 2. Materials and methods

#### 2.1. Collection of Samples

The three Lactoferrin enriched milk products such as Colostrum, Milk and Cheese Industrial Whey were taken as samples.

**Colostrum**: Natural bovine colostrum is collected from healthy cows within a few hours of calving in the dairy farm

Milk: It's commercially available milk from Aavin milk factory, Coimbatore.

Whey: Whey is purchased from Amirtham Milk Products Company, Coimbatore.

All the samples were kept at -18°C.

#### **Before Pretreatment of samples**







Fig.1Colostrum

Fig.2 Milk

Fig.3 Whey

Received: 5 June Revised: 13 June Accepted: 22 June Index in Cosmos

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#### **After Pretreatment of the samples**







Fig.4 Colostrum

Fig.5 Milk

Fig.6 Whey

#### 2.2. Isolation and Partial purification of Lactoferrin:

The samples were taken and centrifuged separately at 4000 g/min for 30 mins at  $4^{\circ}$ C. Then supernatants were collected and treated with 1N HCl to precipitate the casein until pH reached to 4.6. This precipitated casein was removed by centrifugation at 10000 g/min for 15 mins at  $4^{\circ}$ C. These supernatants were adjusted to pH 6.8 with 1N NaOH [7]. Then the samples were dialyzed with Dialysis Membrane – 50 (Medox - Bio kit) against distilled water for 18 hours separately and stored at -18°C [7].

#### 2.3. Collection of pathogens

About 7 microbial cultures were collected from Sri Ramakrishna Hospital, Coimbatore. Then the cultures were named as M1 - Staphylococcus aureus, M2 - Escherichia coli, M3 - Pseudomonas aeruginosa, M4 - Klebsiella sp, M5 - Proteus sp, M6- Bacillus sp and M7 - Candida sp.

#### 2.4. Lactoferrin Determination

Bradford assay methods (1976) were used to determine Lactoferrin from the samples[8].

#### 2.5. Purity testing

It can be done by using sodium Dodecyl Sulphate - Polyacrylamide Gel Electrophoresis[9].

#### 2.5.1. Analysis of Molecular Weight by SDS PAGE

Sephadex G75 with molecular marker range of 3-80 kDa used for the separation of lactoferrin with a molecular weight of about 80 kDa. With the dialysed samples the standard molecular marker also loaded on the first well of gel.

#### 2.6. Antimicrobial activity of Lactoferrin [10]

The antimicrobial activity of Lf against *E.coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Proteus sp, Klebsiella sp and Candida sp* have been examined by well diffusion method. In this method, the

305 Received: 5 June Revised: 13 June Accepted: 22 June

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lawn preparations of organisms on sterilized Mueller Hinton agar were prepared. Wells were made on agar surface using sterile gel puncture and both dialyzed and undialyzed samples of milk products were poured into the wells of different plates respectively. Then the plates were incubated at 37°C for 24 hours for bacteria and at room temperature for 24-48 hours for fungi.

#### 3. Result and discussion

#### 3. 1. Lactoferrin Determination

On performing Bradford's Assay, absorbance values at 595 nm were obtained using a spectrophotometer. For the comparative study the absorbance values are depicted by graphical representation of Samples (Graph.1).

Table.1 Optical density values for sample

Samples	Vol. of Sample (ml)	Vol. of Distilled water (ml)	Vol. of Bradford Reagent (ml)	OD at 595 nm	Conc. of LF (gm/ml)
Colostrum (A)	0.2	0.8	5.0	0.216	3.45
Colostrum (B)	0.2	0.8	5.0	0.204	3.2
Milk (A)	0.2	0.8	5.0	0.210	3.4
Milk (B)	0.2	0.8	5.0	0.180	2.8
Whey (A)	0.2	0.8	5.0	0.164	2.4
Whey (B)	0.2	0.8	5.0	0.152	2.2

#### A - Dialyzed

#### B - Undialyzed

In this study lactoferrin activity on dialyzed Colostrum and Milk samples shows the higher activity than other samples. And cheese industrial whey also shows the good activity.

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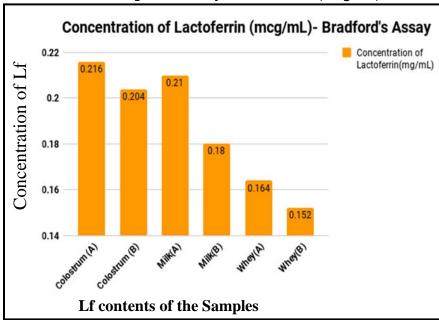
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Graph 1: Activity of Lactoferrin (mcg/ml)



#### 3.2. Analysis of Molecular Weight by SDS PAGE

The separation of the lactoferrin was not completely purified due to the separation was only based on molecular weight, not on the charge of the protein. The result of purification of partially purified milk products on electrophorogram shows that the samples are not completely purified due to the separation is only based on molecular weight not on the charge of the protein. Comparatively these kinds of results were observed by Anggraeni et al., 2015, on Goat lactoferrin.

Fig.3 SDS PAGE Electrophoresis Result of Lactoferrin



Received: 5 June Revised: 13 June Accepted: 22 June

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July 2018 Volume 8 Number 7



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#### 3.4. Antimicrobial activity of Lactoferrin

The antimicrobial activity was done with well diffusion method and clear zone of inhibition were observed for dialyzed and undialyzed samples on Mueller Hinton agar plates of pathogens. This zone of inhibitions were measured and the results were tabulated (Table.2).

The results shows that the partially purified Lf, have antibacterial activity against most of the pathogens and it shows higher activity against *Pseudomonas aeroginosa*.

Microorganis **Dialyzed Samples Undialyzed Samples** m Colostrum Milk Whev Milk Colostru Whev m Staphylococcus 21mm 18mm 15mm 17mm 16mm 13mm aureus Bacillus sp 19mm 15mm 13mm 16mm 15mm 12mm Escherichia coli 17mm 17mm 14mm 15mm 13mm 12mm 22mm 20mm 17mm 19mm 17mm 14mm Pseudomonas aeruginosa

14mm

12mm

16mm

14mm

14mm

18mm

12mm

12mm

15mm

10mm

llmm

12mm

Table.2. Antimicrobial Activity of Lactoferrin

#### 4. Conclusion

Klebsiella sp

Proteus sp

Candida sp

The result of this study shows that lactoferrin gives excellent activity in dialyzed Colostrum and Milk samples and cheese Whey also shows good activity. In antimicrobial activity LF shows higher activity against *Pseudomonas aeroginosa*. So the Lactoferrin which is isolated from the milk products shows good results as antimicrobial agent and which is also an immuno enhancer. In future LF wound dressings can be used against wound pathogens and are safe, promoter of wound healing and LF dressings may be used as an adjunct in management of deep wound [6].

#### 5. Acknowledgement

I would like to express my gratitude to the Management, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, India, to support me for this project work.

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16mm

18mm

20mm

15mm

16mm

19mm

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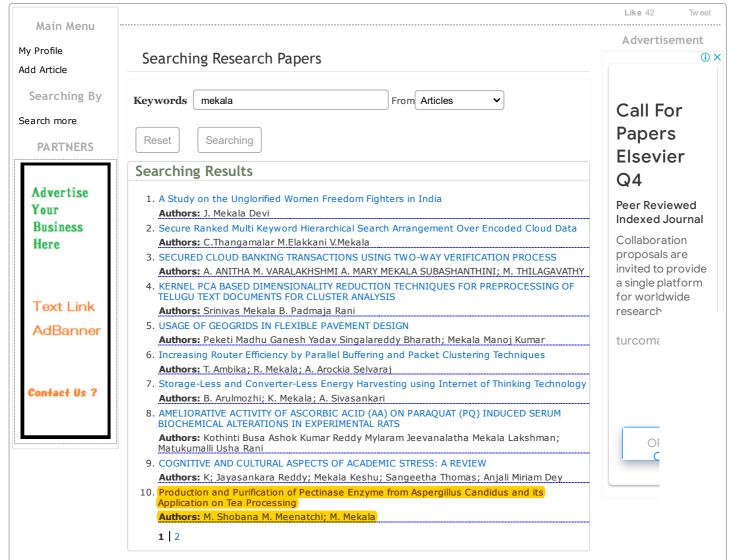


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#### PRODUCTION AND PURIFICATION OF PECTINASE ENZYME FROM

#### ASPERGILLUS CANDIDUS AND ITS APPLICATION

#### **ON TEA PROCESSING**

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#### ABSTRACT

Enzymes are macromolecular biocatalysts which are commercially used in pharmaceuticals, biofuels, food and beverages and consumer products. The enzyme that hydrolyse pectin substances are called as pectinases or pectinolytic enzyme. The organism such as Bacteria, fungi and yeast are used to produce pectinase enzyme. The pectinase enzyme have been used in several conventional industrial process, such as textile plant fiber processing, tea, coffee, oil extraction, treatment of industrial wastewater. Production of pectinase through micro organism which give more effective and low cost production for industries. In this present research work the spoiled fruits (Apple, citron and Grape) and vegetables (Tomatoes) are collected and extracted. The pectin producing organism is isolated and fermented. Enzyme assay was done for the production of pectinases. The produced pectinase are purified for further application on tea leaf processing.

KEYWORDS: Spoiled Fruits and Vegetables, Vincent's Agar, Pectin, Lougal's Iodine Solution & Tea Leaf

Received: Jun 26, 2018; Accepted: Jul 17, 2018; Published: Nov 12, 2018; Paper Id.: IJBTRDEC20181

#### INTRODUCTION

Enzymes are macromolecular biocatalyst and delicate proteins which are commercially used in pharmaceuticals, chemical production, bio fuels, food beverage and consumer products. The enzymes that hydrolyse pectin are broadly classified as pectinases or pectinolytic enzymes. These pectinase enzymes are heteroginous groups and hydrolyses the ester bond between carboxyl and methyl groups of pectin. Pectin is a jellylike matrix and had a major constituent of cereals, vegetables, fruits and fibers. Pectin is primarily present in the plant tissue. It contains D-galacturonic acid in the form of macromolecules linked with  $\alpha$ -1-4- glycosidic bindings which can easily degraded by pectinolytic enzymes. The fruits like pears, apples, orange, guavas, and other citrus fruits and some vegetables such as tomato, carrot and potatoes have high amount of pectin. The source of pectinase enzyme production is spoiled fruits and vegetables, fruit waste dumping soil and fruit peels. And the pectinase is one of the commercial sector in industrial application. Pectinase enzyme are produced by bacteria, fungi, yeast. When comparative to bacteria, the fungi which produce high yield of pectinase enzyme. Production of pectinase through micro organism which give more effective and low cost production for industries. The waste generated from our homes and agricultural farms with adequate nutrient and the high concentration of various sugars, minerals, vitamins and amino acids could serve as alternative and cheeper source for microbial growth production. Pectinase enzyme has wide variety of applications such as coffee and tea processing, fruits juice extraction and reduce viscosity level in animal feed. In this present research work the spoiled fruits and vegetables (Apples,

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# ISOLATION, ABST PATTERN AND MOLECULAR CHARACTERIZATION OF ESBL E.COLI FROM UTI SAMPLES

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# Isolation, ABST Pattern and Molecular characterization of ESBL E.coli from UTI samples

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Tamil Nadu, India.

**Abstract:** Escherichia coli strains were isolated from the patients suffering from urinary tract infection and further characterized for extended spectrum β-lactamase. These strains are extensively cross studied with multiple of drugs and classified according to their sensitivity. Resistance pattern of ESBL, MBL and Amp C producing isolates also identified and differentiated with high and low resistant such as Ampicillin 91.7%, 80% and 100% to Cefepime 75.0%, 53.3% and 0% respectively. The resistant is due to the TEM and SHV genes present in the isolates carrying the virulence factor.PCR based finger printing techniques and RAPD analysis enhanced the molecular characterization of these isolates. Almost available drugs for UTI against E.coli were considered for the deeper understanding. The collaboration of various drug resistant pattern studies along with their fit in β-lactum sub-classification and PCR techniques were the core part of this study.

**Key words**: ß-lactamase, ESBL, MBL and Amp C, TEM and SHV genes, RAPD analysis and resistant pattern.

#### Introduction

Extended spectrum beta lactamase producing bacteria were first identified in 1983. Since the time, they have been found worldwide in a number of organisms, including Escherichia coli (E. coli), Klebsiellapneumoniae (K. pneumoniae), Klebsiellaoxytoca, Proteus mirabilis, Enterobacter cloacae, Morganellamorganii, Serratiamarcescens, Shigelladysenteriae, Pseudomonas aeruginosa, Burkholderiacepacia, Capnocytophagaochracea, Citrobacter species, and Salmonella species. The emergence of ESBL producing bacteria, particularly E. coli and K. pneumoniae is now a critical concern for the development of therapies against bacterial infection. The major ESBL producer was K. pneumoniae before 2000, but now E. coli has become an important ESBL carrier in Western countries. Since the ESBL genes are usually found in large plasmids, they also contain other antimicrobial resistant genes. Escherichia coli are one of the main bacterial pathogenes responsible for nosocomial infections especially in immunocompromised patients E. coli is generally accepted as the predominant vehicle for the dissemination of resistance genes and

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PHYTOCHEMICAL SCREENING, ANTIMICROBIAL, ANTIOXIDANT AND ANTICANCER ACTIVITY OF OCIMUM SANCTUM PLANT EXTRACT

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ISSN 2249-3352 (P) 2278-0505 (E) Cosmos Impact Factor-5.86

# Phytochemical screening, antimicrobial, antioxidant and anticancer activity of Ocimum Sanctum plant extract

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**Abstract:** Ocimum sanctum(tulsi) leaves were collected and extracted in water and methanol and evaluated for its phytochemical constitutes. Antibacterial activity of Ocimum sanctum extract against Escherichia coli, Staphylococcus aureus and Klebsiella pneumoniae were determined. Antifungal activity was carried out against Tricodermaviridae. Antioxidant method is based on the scavenging of DPPH through the addition of radical species or an antioxidant that decolourizes the DPPH solution. Anticancer activity was studied in HeLa cell line by MTT assay. Ocimum sanctum extract were characterized by GCMS(Gas Chromatography with Mass Spectrometer).

Keywords: Ocimum sanctum, Phytochemical, Antimicrobial, antioxidant and anticancer activity.

#### 1. INTRODUCTION

Ocimum sanctumspecies often referred the "King of the herb". It is commonly known as "Tulsi'.Different parts of plant are used in Ayurveda and Siddha systems of Medicine for prevention and cure of many illnesses. The medicinal values of these plants lie in their phytochemical components, which produce definite physiological actions on the human body, and leaves possess antimicrobial activity. In traditional systems of medicine, different parts such as leaves, stem, flower, root, seed and whole plant of O. sanctum have been recommended for the treatment of bronchitis, bronchial asthma, malaria, diarrhoea, dysentery, skin diseases, arthritis, chronic fever and insect bite.Recently, due to indiscriminate use of commercial antimicrobial drugs, multiple drug resistance human pathogens have developed [Archana Sharma et al.,2012].Plants produce compounds which though have no apparent function in the primary metabolism of the plant, had an extensive history of use as therapeutic agents [Chetiaet al., 2014]. The herbs are being used by the people as drugs, condiments, dyes, perfumery material and many other purposes from ancient ages[Devesh and Tewariet al.,2012]. In addition, many phenolics have been identified, which also exhibit antioxidant and anti-inflammatory activities. [Robin Sharma etal., 2013].DNA damage by Oxygen Derived Free

Received: 5 March Revised: 13 March Accepted: 22 March Index in Cosmos
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# ANTIBACTERIAL ACTIVITY AND ANTIOXIDANT ACTIVITY OF CARICA PAPAYA ON SOME ENTERIC BACTERIAL ISOLATES

#### OF PUBLIC HEALTH IMPORTANCE

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#### ABSTRACT

In the present study, ethanol extract and aqueous extract of Carica papaya in different concentration were evaluated for the antimicrobial properties against Enteric pathogenic organisms such as Escherichia coli, Shigella sp., Klebsiella sp., and Pseudomonas sp., by using agar well diffusion method. The extracts were screened for the phytochemical constituents using standard procedure. The anti-oxidant activity of ethanol and aqueous extract fractions from the leaf of papaya were evaluated and ethanol extract showed the strong DPPH activity, Nitric oxide radical scavenging assay, Ferric Reducing/Antioxidant Power (FRAP) Assay and Hydrogen Peroxide Scavenging Activity ( $H_2O_2$ ). The leaves of papaya and these compounds might be used as natural antioxidants. Antibacterial activity against the test isolates was an indication of the possibility of sourcing alternative antibiotic substances in these plants for the production of newer antibacterial agents.

KEYWORDS: Antibacterial Activities, Carica Papaya, Antioxidant & Enteric Bacteria

Received: Jul 11, 2018; Accepted: Aug 01, 2018; Published: Oct 10, 2018; Paper Id.: IJBRDDEC20183

#### INTRODUCTION

According to WHO, around 21,000 plant species have the potential for being used as medicinal plants. Many studies have been conducted to evaluate the biological activities of various parts of *Carica papaya*. The two important compounds are chymopapain and papain, which aid in digestion. The fruit and seed of *Carica papaya* have showed bacteriostatic activity against several enteropathogens in human. Phytochemical studies on the leaves of *Carica papaya* shows the presence of various compounds, including piperidine alkaloids such as carpaine, pseudocarpaine, and dehydrocarpaines I and II. Recently carpaine, quinic acid, six malic acid derivatives and four flavonoid glycosides in the leaf extract was identified. *Carica papaya* Linn. (Family: Caricaceae) primarily cultivated for its fruit and the young leaves are consumed as a vegetable. Different parts of the plant have been used in traditional medicine to treat various diseases. The principle for inhibiting the disease causing organism is by binding their protein molecules, acting as chelating agents (selective binding polyvalent metal ions so that the latter loses its biological activities), altering their biochemical systems, preventing the utilization of available interest to the microorganism and other causes inflammation analysis of microbial cells (Garrod *et al.*, 1995). However, a very important step in the screening of the sanitizing and preservative activity of a plant material was to evaluate its antimicrobial properties. The importance of evaluation of the antimicrobial

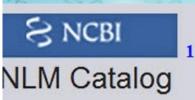
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# BIOAVAILABILITY OF NUTRACEUTICALS AND PHYTOCOMPONENTS IN THE ROASTED AND GERMINATED FORM OF SELECTED MILLETS

D Chandra Prabha<sup>1\*</sup>, P. Chitra<sup>2</sup>, S. Sujatha<sup>1</sup>

Department of Biochemistry, Sri Ramakrishna College of Arts and Science for Women, Coimbatore-44.

**ABSTRACT:** Millets contain major and minor nutrients such as carbohydrate, protein, fat, dietary fibre, vitamins, minerals, antioxidants and phytochemicals. The acceptability, digestibility and bioavailability of nutrients in millets can be enhanced by the traditional processing methods like roasting and germination. These processing methods improve the nutrients of millets for nourishing the health. The present study was aimed to study the impact of the roasting and germinating process in the selected millets. It was observed that among the selected millets, germinated ragi was found to contain maximum digestibility and bioavailability of nutrients which might be due to its phytocomponents residing in the germinating plumule.

**KEYWORDS:** Millets, roasted form, germinated millets, nutrients, phytocomponents.

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#### 1.INTRODUCTION

Millets are nutritionally rich and occupy an important place in the diet of people in many regions of the world. Millet grains are now receiving specific attention from the developing countries in terms of utilization as food as well as from some developed countries in terms of its good potential. Millets are rich sources of phytochemicals and micronutrients, play many roles in the body immune system. Millets have nutraceutical properties in the form of antioxidants which prevent deterioration of human health such as lowering blood pressure, risk of heart disease, prevention of cancer and diabetes (Hassan et al 2006: Pradeep SR and Guha M, 2011). In this context, millets must be accepted as functional food and nutraceuticals. Millets are consumed by processing them. ie., roasting and the germination process. The processing techniques aim to increase the

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# Phytochemical Screening and Green Synthesis of Silver Nanoparticles Using extracts of *Thunbergia* coccinea Wall

Gayathri .P1, Dhinek .A2

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<sup>2</sup>Assistant Professor, Department of Biochemistry, Bharathiar University, Coimbatore, Tamilnadu, India

Abstract: World plant biodiversity is the largest source of herbal medicines which are being used since the ancient ages in traditional health care system. Phytoconstituents are the natural bioactive compounds found in plants. The present study was carried out to screen phytochemicals like carbohydrates, tannins, steroids, saponins, alkaloids and flavonoids in the leaf and floral extract of Thunbergia coccinea wall. Phytochemical screening of extracts was carried out according to the standard method. The ethanolic extract of both parts of the plant were qualitatively screened for phytochemicals by using standard procedures which revealed the presence of various important bioactive chemical entities.

Keywords: Thunbergia coccinea, Phytoconstituents, Ethanolic extract, Chemical techniques

#### 1. Introduction

India is one of the country in the world with a rich biodiversity. Over 400,000 species of flowering plants exist on this planet and of these, an estimated 250,000 could be found in the tropics. Plants have always been known to be a traditional source of medicines since they contain secondary metabolites of high chemical diversity [6].

Medicinal plants are widely used treat different diseases in different parts of the world. As a part of complementary and alternative medicine (CAM) [7], a number of phytomedicines, including those obtained from Indian plants. Numerous phytochemicals with potential or established biological activity has been identified.

Thunbergia is a genus of tropical flowering plant which belong to Acanthaceae family. It has about 200 species [9]which may be annual, perennials and shrubs. *Thunbergia coccinea* wall. is commonly known as Scarlet clock vine or Red clock vine [3]. Phytochemistry deals with a variety of organic substances accumulated in plants. In which it reveals the presence of constituents which are known to exhibit medicinal as well as physiological activities [4].

The objective of this study was to carry out preliminary phytochemical analysis. The medicinal plant contain some active organic compounds which provide physiological action in the body. They are called Phytochemicals [10]. The phytochemical analysis of the plants is very important commercially and has great interest in pharmaceutical companies for the production of the new drugs for curing of various diseases.



Figure 1: Thunbergia coccinea

#### 1.1 Scientific classification

Kingdom - Plantae Division - Angiosperms

Class - Eudicots

Order - Lamiales

Family- Acanthaceae

Genus- Thunbergia

Species -Thunbergia coccinea

Volume 7 Issue 3, March 2018

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## A Phytochemical Analysis and Antioxidant Activity From Ethanolic Extract of Punica Granatum

## M.Lathamani<sup>1</sup> .Mrs.A.Dhinek<sup>2</sup>

<sup>1,2</sup>Sri Ramakrishna college of Arts and science for women

Abstract- "Punica granatum" L.(Punicaceae) commoly called pomegranate." punica granatum" has large number of chemical compounds. Leaves of this plant were collected from Coimbatore. The present study detect the different Phytochemicals, such as Phenols, Flavonoids, Alkaloids, Tannins, glycosides from the ethanolic extract of "punica granatum". Antioxidant play an specific role for some diseases. and Antioxidant is its ability to trap free radicals. The study of Antioxidant activity acts in one method. Hydrogen Peroxide Scavenging activity. H2 O2 is an important reactive oxygen species. Conclude from this that these extract produce proper Phytochemical, Antioxidant properties.

*Keywords*- "punica granatum",Phytochemical Test, Antioxidant activity.

## I. INTRODUCTION

Pomegranate is a usual name of *punica granatum* it is a family of punicaceae[1]. The rich amount of Tannins is present in this plant. Now a days these phytochemicals has countless medicinal uses. Phytochemicals acts a role against the number of disease. astma, Arthritis, Cancer etc[2]. All the selected medicinal plants were found to contain chemical constituents such as Tannins, flavonoids, moreover tepenoids. its acts to make for a drug design[3]. Antioxidant is a molecule. it inhibit the oxidation of other molecule or it against Reactive Oxygen Specious(ROS). Different colour, varieties of the plant have various Antioxidant Acitivity and that composition is also Different.



Fig.NO:1: Pomegranate leave

## II. MATERIALS AND METHODS

## SAMPLE COLLECTION AND PLANT EXTRACT PREPARATION:

Fresh leaves of pomegranate was collected from coimbatore and it washed with tap water and then with sterilized water. Leaves were Homozinized to fine powder using electric blender. The fine powder mixed with different solvent like ethanol, or methanol. The soxhlet metod was used for plant extract preparation. 30 Grams of plant was added in 175 ml of ethanol is added to a bottom flask. The process should run total of 16 hours [4].

## PHYTOCHEMICAL SCREENING:

Phytocemicals are naturally occurring in the medicinal plants, leaves and roots that have defense mechanism and protect from various diseases[5].Qualitative screening for the presence of various phytochemical compounds was performed using the methanolic extract.

## III. QUALITATIVE PHYTOCHEMICAL SCREENING

## TEST FOR PHENOL:

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## POTENTIAL HEALTH BENEFITS OF ROASTED AND GERMINATED *ELEUCINE* COROCANA



Science	
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K. Mouliya	ofessor Department of Biochemistry, Sri Ramakrishna College of Arts and Jomen, Coimbatore-44.
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N. Karthiha	ofessor Department of Biochemistry, Sri Ramakrishna College of Arts and Jomen, Coimbatore-44.

## **ABSTRACT**

Millets are gaining importance and are replacing the junk foods among the adolescents in the present situation. The traditional processing techniques enhances the physicochemical accessibility of micronutrients, decrease the content of antinutrients or increase the content of compounds that improve bioavailability. Hence, the present study emphasizes on the impact of the traditional processing methods such as roasting and germinating with respect to their nutritional and phytocomponents in ragi. It was observed that the ragi in the germinated form possess appreciable levels of macronutrients and the phytocomponents.

## **KEYWORDS**

Eleucine corocana, Nutrient profile, phytocomponents, roasted and germinated ragi

**INTRODUCTION:** Millets are being used as nutraceuticals as they are rich in antioxidants much higher than the major cereal crops. They are reportedly beneficial in curing asthma, migraine, blood pressure, diabetic, heart disease, atherosclerosis and heart attack. The high fibre content in millets prevents gall stone formation. The whole grain consumption has health promoting effects like prevention of insulin resistance, heart disease, diabetes, ischemic stroke, obesity, breast cancer, childhood asthma and premature death (Balasubramanium, 2013). Millet, a nutritious staple crop in many developing countries, can be made even more nutritious when the grains are sprouted. An attempt was made in the present study to evaluate the impact of roasting and germinating process in *Eleucine corocana (ragi)*.

## MATERIALS AND METHODS:

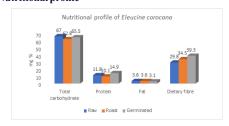
Processing of the millets - The *Eleucine corocana (ragi)* were first cleaned thoroughly and made free from dust, dirt, and foreign matter. Any seeds which were spoiled or with cracked hull were discarded and the remaining seeds were surface sterilized with 0.1% (w/v) potassium permanganate solution. A part of the ragi were roasted in a dry pan at about 50°C for 3mins. Roasting process is terminated when a nice aroma develops. For sprouting, ragi were soaked in distilled water for 4h at room temperature (RT). The excess water was drained, sample further rinsed with distilled water, seeds placed in a single layer on filter paper in sterile petri dishes and placed in the muslin cloth at the room temperature, 90% RH for 24h. Germinated ragi were dried in an oven overnight at 60°C. The processed ragi were then cooled in desiccator, powdered using a electric blender at moderate speed (5,000 rpm) and sieved through mesh size of 600 microns.

**Analysis:** The processed and unprocessed millet were analysed for the total carbohydrate, protein, fat and dietary fibre. The qualitative analysis of phytochemicals viz. phenolics, flavonoids, alkaloids and saponins present in the ragi was done by the Method of Treese and Evans(1989).

### **RESULTS:**

Millets are the store houses of many chemical components including nutrients, phytochemicals, and non-nutritive plant protective functional constituents. The results of the macro nutritional status of the raw, roasted and germinated ragi are shown in fig 1.

Fig 1: Nutritional profile



### Phytochemical analysis:

Phytochemical testing to detect for the presence of different chemical group of phytocompounds alkaloid, tannin, terpenoids, phenolic compound and flavonoids are depicted in table-1.

Table-1-Phytochemical analysis of ragi

Phytochemicals	Ragi					
	C	R	G			
Alkaloids	+	+	+			
Glycosides	+		+			
Tannins	+					
Phytosterol	+					
Terpenoids	+	+	+			
Steroids			+			
Phenolic compound	+	+	+			
Flavonoids	+	+	+			

C-raw control: R-roasted ragi: G-germinated ragi

(+) indicates presence (--) indicates absence

### DISCUSSION:

From our results it is observed that the proportion of carbohydrate is high when compared to protein, fat and dietary fibre. In the assessment of nutritional status of the processed ragi, a decrease in the carbohydrate and fat levels were observed in germinated form when compared to the raw and roasted millets. However, the levels of protein were found to decline in the roasted form and increased in the germinated form. Levels of dietary fibre were observed to be increased in roasted and germinated form when compared to the raw controls.

The reduction in carbohydrate content could be attributed to increased activity of alpha-amylase which hydrolyses starch to simple sugar. Total fat content in the processed millets were observed to be low when compared to unprocessed ragi which may be attributed to the breakdown of fats to fatty acid and glycerol. This is in accordance with the studies of Anthony and Babatunde (2014). The levels of protein and dietary fibre were observed to be increased in the germinated millets. Increased protein levels reflects the activation of the proteolytic enzymes during germination. The observed decline levels in the roasted form is due to the denaturation induced by the impact of temperature during the roasting process. The germinated millets showed an appreciable fibre content compared to the unprocessed samples. Germination increased the crude fibre content in all the selected millets. The nutraceutical profile was found to be in appreciable levels in the germinated ragi.

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## **Evaluation of Preliminary Phytochemical Analysis of Leaf Extract of Nephelium Lappaceum**

## Arthana V R<sup>1</sup>, Sujatha S<sup>2</sup>

<sup>1</sup>Dept Of Biochemistry

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Abstract- The knowledge of traditional medicine, medicinal plants and their scientific study lead to the discovery of newer and cheaper drugs. A large number of plants are found to possess the medicinal properties in the traditional system and are most widely used by people all over the world. Nephelium lappaceum (rambutan) is well known to cure several diseases and used in various folk medicinal preparation. In this study, phytochemical screening was carried out to identify various compounds present in the leaves of Nephelium lappaceum.

*Keywords*- Nephelium lappaceum, phytochemical analysis, leaf extract, ethanol.

## I. INTRODUCTION

Plants are used as sources for centuries as a most powerful remedy for treating many diseases because of presence of numerous bioactive constituents of immense therapeutic values. The world is now looking towards the production of new drugs for different diseases because of its undefinable medicinal properties<sup>[1]</sup>.

Nephelium lappaceum or Rambutan (King of fruit) is a tropical fruit belongs to sapindaceae family, which is delicious and sweet, unique odour and formidable thorn covered hersk [2]. The fresh fruits are used for making jellies and jams. The seeds are rich in fat and oil that is used to cook and soap manufacturing. Rambutan leaves has been most widely recognized in Indonesia to treat many serious diseases. It has been claimed that the fruit possess great rejuvenating power. This plant also has several therapeutical applications antimicrobial, antioxidant, anti-diabetic, atheroschlerosis, anti-carcinogenic, anti-proliferative and hypoglycemic activities [2,3and 4]. The pulp of rambutan has been reported to possess high abundant of carbohydrates, fats, proteins, phosphorus, iron, calcium and flavonoids. Its leaves, root and bark have important function in the production of dyes. The fruit of rambutan act as a vermifuge which is a medicine that destroys intestinal worms and it also used to cure diarrhea and dysentery. Roots of rambutan is used for treating fever .The bark is used as a remedy for thrush, as an astringent for tongue diseases and leaves are used for

headaches<sup>[5]</sup>. The present study were carried out to analyze the presence of phytoconstituents in leaves of Rambutan.

ISSN [ONLINE]: 2395-1052

## II. MATERIALS AND METHODS

## **Collection and Preparation of Plant Materials**

Healthy fresh leaves of *Nephelium lappaceum* are collected from Malappuram District, Kerala. The leaves are rinsed with water and dried at room temperature under well ventilated shade. The dried leaves are powdered and stored in air-tight container for further analysis.

### **Extraction of Plant material**

30 g of powdered leaves extract is prepared in 300 ml of ethanol for 24 hours in a soxhlet apparatus. After 24 hours, the crude solvent is allowed to evaporate at room temperature to obtain ethanolic extract of Rambutan.

## III. PRELIMINARY PHYTOCHEMICAL SCREENING

Ethanolic extractof *Nephelium lappaceum Linn* was analyzed for the presence of various phytoconstituents like carbohydrate, alkaloids, saponins, phytosterol, tannins, flavonoids, proteins and amino acids, glycosides and phenolic compounds<sup>[6-15]</sup>.

## **Test for Carbohydrates**

Extracts were dissolved in 5 ml of distilled water and filtered. The filtrates were used for analyzing the presence of carbohydrates.

Molisch's test: 2 ml of extract was treated with Molisch's reagent and 1 ml of concentrated sulphuric acid was added along the sides of the test tube. The formation of deep violet colure ring indicates the presence of carbohydrates.

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## Phytochemical Screening and Antimicrobial Activity on *Phyllanthus niruri*on Hydroethanolic Extract

Dhinek .A<sup>1</sup>, Charu Prabha .V<sup>2</sup>

<sup>1</sup>Associate Professor, Department of Biochemistry, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil Nadu, India

Abstract: The study is based on the antimicrobial effect on Phyllanthus niruri leaves using hydroethanolic extract at the concentrations 100µl and 200µl.8µl of chloramphenicol was used as control. Pure isolates of Escherichia coli, Staphylococcus aureus, Klebsiella pneumoniae, Shigella were employed as test organisms. Klebsiella pneumoniae was the most susceptible bacterium as it shows the maximum zone of inhibition whereasE.coli is the least susceptible bacterium. The present investigation also aimed to focus on the screening of phytochemical constituents. This phytochemical screening revealed the presence of phenol, saponin, and alkaloids in the extracts.

Keywords: Antimicrobial, Phytochemicals, Phyllanthus niruri

## 1. Introduction

Phyllanthus niruri belongs to the family of Euphorbiaceae. Based on its uses and the arrangements of the flowers on the leaves the plant has several tribal names. "Chancapiedra" is the Spanish name meaning "stone breaker" or "chatter stone", it is used as elimination agent for gall and kidney stones(Balle and William, 1994). Phyllanthus niruri is known for protecting the liver. The plant has several protective properties such as antiviral, antifungal, antibacterial, pain relieving, diuretic, hypoglycamic(Barros et al., 2003). It acts as therapeutic agent against veneral disease, hepatic disease, infection, mouth and throat ulcer, syphilis, gastrointestinaldisorders, diarrhoea (Tonaet al., 2004).

Phytochemical screening is the important steps to find out the chemical constituents which is used for the isolation of bioactive compounds. These compounds from plants inhibit bacterial growth by different mechanisms and they may have clinical value in the treatment of resistant microbial strains. In the present investigation hydroethanalic extract of plant leaves of *Phyllanthus niruri* has been studied for their antimicrobial efficiency.



Figure 1: Phyllanthus niruri plant and plant powder

## 2. Materials and Methods

## **Collection of Plant**

The fresh leaves of *Phyllanthus niruri* were collected from outskirts of Dharapuram.

## Preparation of plant powder

The leaves of *phyllanthus niruri* were cleaned and dried completely under shade and then ground into coarse powder with an electric grinder.

## **Solvent Extraction**

The whole plant materials were air dried untill all the water molecules evaporated and plants become well dried for grinding. Using mechanical blender the plant material was well grinded into fine powder and then transferred into air tight containers with proper labeling for future use. Hydroethanol extract from the leaf sample was collected by using soxhlet apparatus by repeating for around 10 cycles. Further the extracts were cooled, weighed and tested for its antimicrobial activity at two different concentrations  $100\mu l, 200\mu l$ .

## Phytochemical screening

## 1. Test for Alkaloids

In a clean dry test tube 2ml of extract was taken and added with 3-5 drops of Wagner's reagent. The formation of reddish brown colour indicates the presence of alkaloids.

## 2. Test for Amino acids

A few drops of ninhydrin reagent were added in 2ml of the extract. A violet or purple colour was developed if amino acids were present. No colouration indicates the absence of amino acid

## 3. Test for Saponins

In a test tube 2ml of extract was added to 5ml of distilled water and shaken well. Theformation of persistent foam confirms the presence of saponin.(RajinikanthMarka*et al.*,)

## 4. Test for Phenols

Treated 1ml of extract with 3-4 drops of ferric chloride solution. The formation of bluish black colour indicates the presence of phenols.(Prashant Tiwari *et al.*,2011)

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# Synthesis and Characterization of Silver Nanoparticle from Citrus Limon Leaves and its Antibacterial Activity

**Dhinek** .A<sup>1</sup>, Vanitha .S<sup>2</sup>

Associate Professor, Department of Biochemistry, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, Tamil Nadu, India

Abstract: The study is focused to biosynthesize silver nanoparticles using lime leaf extract to assess the antibacterial activity of silver nanoparticles against the selected microorganisms. 10g of dried leaf powder with 100ml of deionized water in 500ml of Erlenmeyer flask and boiled for 20mins. For the reduction of Ag+ ions, 10ml of leaf extract was mixed to 90 ml of 1mM of aqueous of AgNO3 and was heated at 60-80 for 20 mins. The bio reduction of Ag+ ions in solution was monitored using UV- vis spectrometer, TEM, analysis. The extract was tested against the microorganisms like Escherichia coli, Staphylococcus aureus, Shigella, Klebsiella pneumonia. The present research work emphasizes the use of lemon leaves for the effective synthesis of AgNPs and could be used against the microorganisms which are found to develop drug resistance towards board spectrum antibiotics.

Keywords: lemon leaf, silver nanoparticles, microorganisms, UV-vis spectrometer

## 1. Introduction

The lemon Citrus limon (L.) osbeck is a species of small evergreen tree in the flowering plant family Rutaceae, native to asia. The trees ellipsoidal yellow fruit is used for culinary and non- culinary purposes throughout the world, primarily for its juice, which has both culinary and cleaning uses. The juice of the lemon is about 5% to 6% citric acid, with a pH of around 2.2, giving it a sour taste. The origin of the word "lemon" may be middle eastern. A genomic study of the lemon indicated it was a hybrid between bitter orange (sour orange) and citron. It was mainly used as an ornamental plant and for medicine. In the 19th century, lemons were increasingly planted in Florida and California. In 1747, James Lind's experiments on seamen suffering from scurvy involved adding lemon juice to their diets, Lemons are a rich source of vitamin C, Lemons contain numerous phyto chemicals, including polyphenols, terpenes and tannins. Lemon juice, rind, and peel are used in a wide variety of foods and drinks. Lemons were the primary commercial source of citric acid before the development of fermentation based processes.



Figure 1: Citrus limon

## Collection of plant

*Citrus limon* leaves were collected from Bargur village in krishnagiri district, Tamil nadu, India .The plant was dried in shade at room temperature.

## **Identification of plant**

The whole plant material *Citrus limon* is obtained from local area of krishnagiri district, Tamilnadu, India during the month of January, 2018. The fresh plant material was authenticated by a scientist from Botanical Survey of India, Coimbatore, Tamil Nadu, India.

## Preparation of plant extract

The plant was dried in shade room temperature for 5 to 6 days .The leaves were powdered and used as raw material and stored in air tight container.

## **Solvent extraction**

Plant leaf extract was prepared by mixing 10g of dried leaf powder with 100 ml deionized water in 500 ml of Erlenmeyer flask and boiled for 20 min. For the reduction of Ag + ions, 10 ml of leaf extract was mixed to 90 mL of 1 mM aqueous of AgNO3 and was heated at 60 - 80 for 20 min. A change from brown to reddish color was observed.

## **UV-VIS** spectra analysis

UV-VIS spectra analysis the reduction of pure Ag+ ions was monitored by measuring the UV-Vis spectrum of the reaction medium at 5 hours after diluting a small aliquot of the sample into distilled water. UV-Vis spectral analysis was done by using UV-VIS spectrophotometer UV-2450 (Shimadzu).

## Transmission electron microscopy (TEM)

Transmission electron microscopy (TEM) (HITACHI,H-7500) is a microscopy technique whereby a beam of electrons is transmitted through an ultra –thin specimen, interacting with the specimen as it passes through. Ag particle image was formed from the interaction of the electrons transmitted through the specimen; the image of Ag nanoparticles was magnified and focused onto an imaging device.

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Paper ID: ART20192391 DOI: 10.21275/ART20192391 8

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# Extraction of Novel Peptide With Ace Inhibiting Activity And Antioxidant Study From Anchovy's Fish [Stolephours Indicus]

## Soundharya.R<sup>1</sup>, Sujatha.S<sup>2</sup>, Ragunanthan.R<sup>3</sup>, Jesteena Johney<sup>3</sup>.

<sup>1, 2</sup> Sri Ramakrishna College of Arts and Science for Women, Coimbatore-44. <sup>3</sup>Centre for Bioscience & Nanoscience Research, Eachanari, Coimbatore- 21.

Abstract- Due to advancement in technologies carbon footprint is increasing continuously due to continuous usage. designers are attracted towards energy efficiency in the internet of things(IOT) and this new area is named as green Iot. Lots of techniques have been used. Green automation is important in today's era. Study of different scrubbers is done to absorb carbon. after comparison efficient one is used for further processing.

*Keywords*- Cloud Computing, Green Internet Of Things, Smart Phone, Android Application, Wireless Sensor Networks.

## I. INTRODUCTION

The anchovy is a significant food source for almost predatory fish in its environment, including the California halibut, rock fish, yellowtail, shark, chinook, and coho salmon. Protein hydrolysates from milk, soy and fishes contain peptides that possess angiotensin I converting enzyme [ACE] inhibitory properties and may help to prevent hypertension. Fish Consumption, Fish Oil, Omega-3 Fatty Acids are the drug which is used to treat hypertension. ACE inhibitors are major anti-hypertensive drugs[1]. An angiotensin-converting-enzyme inhibitor [ACE inhibitor] is a pharmaceutical drug used primarily for the treatment of hypertension [elevated blood pressure] and congestive heart failure [6]. Angiotensin I is converted to angiotensin II [AII] through removal of two C-terminal residues by the enzyme angiotensin-converting enzyme [ACE] [7]. ACE is a target of ACE inhibitor drugs, which decrease the rate of angiotensin II production. Hypertension [HTN or HT], also known as high blood pressure [HBP], is a long-term medical condition in which the blood pressure in the arteries is persistently elevated. High blood pressure usually does not cause symptoms. Angiotensin-I-converting enzyme [ACE] inhibitors like synthetic drugs are widely used to control hypertension. Antihypertensives are a class of drugs that are treat hypertension [high blood Antihypertensive therapy seeks to prevent the complications

of high blood pressure, such as stroke and myocardial infarction. Evidence suggests that reduction of the blood pressure by 5 mmHg can decrease the risk of stroke by 34%, of ischaemic heart disease by 21%, and reduce the likelihood of dementia, heart failure, and mortality from cardiovascular disease [3]. There are many classes of antihypertensives, which lower blood pressure by different means. Among the most important and most widely used drugs are thiazide diuretics, calcium channel blockers, ACE inhibitors, angiotensin II receptor antagonists [ARBs], and beta blockers [4]

## II. MATERIALS AND METHOD

## Collection of fish

The *Anchovies* fish (*Stolephorus indicus*) were collected from Ukkadam fish market (without any physical damage) Coimbatore , Tamil Nadu , India.

## Preparation of muscle extract

Fish was dissected aseptically, the intestine was removed and it is cut into two parts of head muscle and tail muscle it was ground with phosphate buffer [pH 7.2] and the extract was collected and incubated for 24 hours. After incubation, the extract was centrifuged at 5000rpm for 5 min. The supernatant was collected and used for further studies.

## Estimation of protein by lowry's method

Lowry et al method were used to analysis of protein content  $\mu g/g$  of protein was calculated by using standard graph of BSA.

## **Antioxidant activity**

## **Dpph** free radical scavenging activity

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# CHARACTERIZATION AND IN SILICO MOLECULAR DOCKING STUDIES OF ALPHA AMYLASE INHIBITOR COMPOUNDS FROM Trigonella foenum graecum SEED EXTRACTS

## <sup>1</sup>Dr. R.RENUKA and <sup>2</sup>Dr.G.P.JEYANTHI

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## **ABSTRACT**

Diabetes Mellitus is a chronic metabolic disorder that affects human body in terms of physical, psychological and social health. Pancreatic alpha amylase inhibitors might be used for the design of novel functional foods with blood-glucose-lowering potential, which could be used as a complement of other anti diabetic drugs. Characterization of active compounds and their mechanism of interaction with the target enzymes might play a significant role in structural based drug designing. The present study was conducted to characterize the active compounds present in ethyl acetate seed extracts of Trigonella foenum graecum through GCMS analysis and the compounds identified were subjected to in silico molecular docking studies to determine their binding affinities against the selected target proteins human pancreatic alpha amylase (HPA) and porcine pancreatic alpha amylase (PPA) identified server. **GCMS** spectral analysis compounds namely enzymes carboxylicacid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-,methylester (dehydroabietic acid), butylphenol and 1-nonadecene. The docking results revealed that these compounds exhibited more favourable interactions with the targets. The ligand molecules were more potent in binding to HPA than to PPA. Hence the compounds identified from the seeds of Trigonella foenum graecum might act through inhibition of the pancreatic alpha amylase enzymes in control of Diabetes mellitus.

Key words: Molecular docking, Trigonella foenum graecum, Pancreatic Alpha-amylase

## I. INTRODUCTION

Diabetes Mellitus a very common chronic disease is becoming the third "killer" of the health of mankind along with cancer, cardiovascular and cerebrovascular diseases because of its high prevalence, morbidity and mortality (Durgeshnandani *et al.*, 2014). Management of Type 2 Diabetes by conventional therapy involves the inhibition of degradation of dietary starch by glucosidases such as  $\alpha$ -amylase and  $\alpha$ -glucosidase. Amylase inhibitors also known as starch blockers prevent dietary starches from being digested and absorbed by the body. This could be useful for treating Diabetes Mellitus characterized by chronic hyperglycaemia resulting from defects in insulin secretion (Ali *et al.*, 2006). Amylase inhibitors from medicinal plants are considerably safe and effective (Ayyanar *et al.*, 2008).

Trigonella foenum graecum also known as fenugreek and vendayam in Tamil is an annual leguminous bean and belongs to Fabaceae family (Devasena  $et\ al.$ , 2014). The herb has an enormous potential to prevent or cure diabetes more than other plant species especially due to the presence of unique chemical constituents (Laila and Murtaza, 2015). Understanding the mechanism of action and inhibition mechanism of the target enzyme is critical in the early discovery and development of drug candidates. Studies regarding interaction between inhibitor and  $\alpha$  - amylase have significance in obtaining a better insight in the mechanism of  $\alpha$  -amylase inhibition. Thus, the molecular docking predictions are used to find the probable inhibition mechanism (Wulan  $et\ al.$ , 2015). The computational methodology, involving molecular docking analysis could be an easy gate-way for searching effective drugs of natural origin against diseases (Mohapatra  $et\ al.$ , 2015).

The present investigation was undertaken to identify the active compounds in ethyl acetate seed extracts of *Trigonella foenum graecum* through GCMS analysis and to study their interactions with pancreatic alpha amylase enzymes through *in silico* molecular docking.

## II. MATERIALS AND METHODS

Ethyl acetate seed extracts of *Trigonella foenum graecum* was separated by Thin Layer Chromatography (TLC) and potent fraction having highest alpha amylase inhibition was subjected to GCMS analysis for identification of the active compounds.

Gas Chromatography Mass Spectroscopy (GCMS) analysis (Mercy *et al.*, 2013) GC-MS analysis was carried out on a GC clarus 500 Perkin Elmer system and gas chromatograph interfaced to a mass spectrometer (GC-MS). Column Elite-1 fused silica capillary column (30mm x 0.25mm ID x 1 μ Mdf, composed of 100% dimethyl poly siloxane), operating in electron impact mode at 70eV; Helium (99.999%) was used as carrier gas at a constant flow of 1ml /min and an injection volume of 1 ml was employed (split ratio of 10:1); Injector temperature 250 °C; Ion-source temperature 280°C. The oven temperature was programmed from





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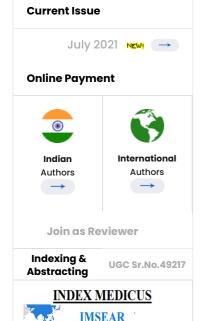
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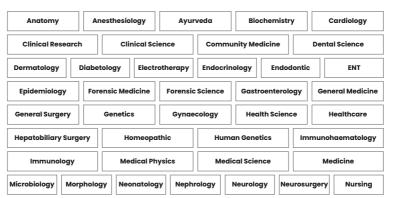
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## PHYTOCHEMICAL ANALYSIS AND EVALUATION OF ANTI-INFLAMMATORY ACTIVITY OF MOLLUGO OPPOSITIFOLIA EXTRACTS



## **Biochemistry**

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## **ABSTRACT**

Inflammation is a part of the body's immune response that involves the destruction of tissues and organs. It can be considered as part of the complex biological response of vascular tissues to harmful stimuli such as pathogens, damaged cells or irritants. The search for natural compounds and phytochemicals that are able to interfere with these mechanisms by preventing a prolonged inflammation could be useful for human health. *Mollugo oppositifolia* belongs to the family Molluginaceae. The present study was aimed to find the phytochemicals present and the evaluation of anti-inflammatory property of *Mollugo oppositifolia* extract using HRBC suspension method. The phytochemical analysis of the plant showed that the major constituents are the phenols, glycosides, tannins, terpenoids and steroids. The plant extract showed significant anti-inflammatory activity.

## **KEYWORDS**

Inflammation, Phytochemicals, Natural compounds, Mollugo oppositifolia.

Introduction: Nature has given us a very large number of diverse types of plant sources that grow in different parts of the world. Medicines produced from plants are without side effects and are known to cure a large number of diseases very effectively. Inflammation is a natural, protective process that involves destruction of tissues, damage to organs etc. It involves various local inflammatory mediators including arachidonic acid, prostaglandins and leukotrienes (1). The mediators of the process of inflammation induce heat, redness, swelling and pain. Inflammation may be either acute inflammation or chronic inflammation. Acute inflammation is of short duration whereas chronic inflammation is of long duration (2). The visual changes seen during the process of inflammation can be described well. The sensation of heat is caused due to the increased movement of blood through dilated vessels which also results in increased redness. Edema occurs due to the increased passage of fluid from the dilated blood vessels to surrounding tissues. Pain is due to the direct effects of mediators, either from initial damage or that resulting from the inflammatory response itself, and also due to the stretching of sensory nerves caused by oedema. These destructive processes involve some major cells of the immune system including T cells, B cells, basophils, neutrophils and mast cells, etc. These events are controlled by extracellular mediators and regulators like cytokines, growth factors, eicosanoids like leukotrines and prostaglandins. There are various synthetic drugs available for the treatment of inflammation. Traditionally the standard treatment for rheumatoid arthritis involves the use of non-steroidal anti-inflammatory drug such as aspirin for pain relief and also the use of corticosteroids in attempt to reduce other symptoms of the disease (3).

Prostaglandins are a family of chemicals that are produced by the cells of the body and have several important functions. They promote inflammation that is necessary for healing, but also results in pain, and fever, support the blood clotting function of platelets and protect the lining of the stomach from the damaging effects of acid. Nonsteroidal anti-inflammatory drugs (NSAIDs) block the COX enzymes and reduce prostaglandins throughout the body. As a consequence ongoing inflammation, pain, and fever are reduced. Since the prostaglandins that protect the stomach and support platelets and blood clotting also are reduced, NSAIDs can cause ulcers in the stomach and promote bleeding. The examples of NSAIDs includes aspirin, ibuprofen, diclofenac, naproxen etc. the side effects caused by these drugs include kidney failure, nausea, diarrhea, constipation, drowsiness, liver failure, ulcers etc (4).

Hence the identification of plants with anti- inflammatory activity and without side effects plays an important role in the treatment of inflammation. The inflammation is mainly due to the lysis of lysosomal membrane. Since the human erythrocyte membrane is similar to the lysosomal membrane, the Human Red Cell suspension method was used to assess the *invitro* anti-inflammatory activity of plants (5).

Plants produce a wide range of secondary metabolites which are called as phytochemicals. They have the ability to cure a large number of diseases. They can be effectively used in the treatment of a number of diseases and conditions (6). The plant *Mollugo oppositifolia* belongs to the family *Molluginaceae* and is commonly known as carpetweed. It is a common weed growing in wet and warm areas all over the world. The plant is known to be edible.

### Materials and methods

### Collection and preparation of extract

The plant was collected from Ayanavaram, Chennai and authenticated by a scientist from Botanical Survey of India, Coimbatore, Tamil Nadu, India. The whole plant was washed to remove dust particles and kept under sun for an hour. 100g of plant sample was taken and crushed in a mixer- grinder. The blended plant material was transferred to a conical flask and was covered with a cotton plug. It was then extracted with 50% ethanol and kept overnight on a rotary shaker. The extract was then evaporated to remove the solvent in a rotary vaccum evaporator at a temperature of 60 °C. The extract was filtered and then used for experiment.

### Qualitative and Quantitative test for Phytochemicals

The filtered extract was used for the following tests.

## Qualitative tests

## I) Test for Phenol

To 1ml of the plant extract added  $20\mu l$  of 1% ferric chloride. The appearance of bluish black precipitate indicates the presence of phenol (7).

### ii) Test for Flavonoids

To 1ml of the extract added few drops of 1% sodium hydroxide solution. The appearance of yellow colour indicates the presence of flavonoids (7).

## iii) Test for Terpenoids

To 0.5ml of the plant extract added 2ml of chloroform and 3ml of concentrated sulphuric acid along the sides of the test tubes. The appearance of reddish brown colour at the interface indicates the presence of terpenoids (7).

## iv) Test for Quinones

To 1ml of the plant extract added few drops of concentrated hydrochloric acid. The presence of yellow precipitate indicates the presence of quinines (8).

## v) Test for Glycosides

To 2ml of the plant extract added 1ml of glacial acetic acid. To that added 1% ferric chloride solution drop by drop and then added concentrated sulphuric acid along the sides of the test tube. The

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## A Comparative Study On Phytochemical Screening Of Passiflora Flavicarpa And Passiflora Edulis

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Abstract- Medicinal plants have been used by mankind because of its therapeutic value. Passiflora edulis is one of the fruit belongs to Passifloraceae. Phytochemical analysis provides wide knowledge of plants chemical constituents. Comparative study on phytochemical analysis of P. flavicarpa and P.edulis indicates the presence of phytocomponents like phenols, flavonoids, alkaloids, cardiac glycosides, tannins, saponins, carbohydrate, steroids, protein and amino acid. The ethanolic leaf extract of P. flavicarpa and P. edulis were compared. The better results were by Passiflora edulis f.edulis. These results related to high medical potential value of plant.

*Keywords*- P. flavicarpa, P.edulis, phytocomponents, ethanol, leaf extract.

## I. INTRODUCTION

Phytochemicals are bioactive non-nutritive plant compounds that contribute different type of activities from inhibiting cancer cell proliferation to protecting against oxidative damage that prevent cardiovascular disease and multiple cancers (1-5). The components like phenolic, flavonoids, tannins, cardiac glycosides are suggested to be the major bioactive components having health benefits. Phytochemical screening is a major process used for evaluating a plant's photochemical constituents. Phytochemical components which act as a natural defense system for host plants.

The plant based traditional medicine systems continues to play an essential role in human health, nearly about 80% of the world's inhabitants relaying mainly on traditional medicines for their primary health care<sup>(6)</sup>. Medicinal plants have the ability to synthesize a wide variety of chemical compounds that are use to perform important biological functions and to defend against attack from predators.

Passiflora edulis (passion fruit) was introduced in Hawaii in 1880. Today passion fruit is grown in tropical areas worldwide, with millions of people enjoying its rich store of

nutrients. Leaf of passion fruit is mainly used for treating diabetes, anxiety, insomnia and seizure disorders. There are mainly three species of *Passiflora edulis* are found, among that the two species are yellow fruit (*P. flavicarpa*) and purple fruit (*P. edulis*). Purple fruit have more flavonoids and other constituents when compared with yellow fruit, but its seed is more acidic than purple. So it is important to make a comparative study between the *P. flavicarpa and P. edulis* 

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## II. MATERIALS AND METHODS

## **Collection of plants:**

Healthy fresh leaves of *P. flavicarpa and P. edulis* were collected from Kerala, Kozhikode district. The plants leaves were cleaned and after that air-dried at room temperature for two weeks, coarsely powdered using mixer grinder and stored in a glass container at 4<sup>o</sup>C until ready for use.

## **Ethanolic extract:**

20g of the powdered leaf samples were weighed added 200ml of ethanol was left to stay for 72 hours through intermittent shaking. At the end of the extraction of 72 hours the filtrate was collected and kept to dryness at a temperature of 100°C in a water bath. The residue obtained was covered with aluminum foil and stored in refrigerator at 4°C for the further use (7)

## Phytochemical Analysis:

The ethanolic extract was subjected to preliminary phytochemical analysis in order to detect the presence of various types of phytoconstituents like alkaloids, flavonoids, tannins, phenol, carbohydrate <sup>(8, 9)</sup>

## **Detection of alkaloids:**

2 ml of extract was dissolved individually in diluted HCL and filtered.

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## A Study on Microbial Contamination of Broiler And Country Chickens

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Abstract- Poultry is the major source of meat in India. With the steady increase in the consumption of chickens, ensuring the microbial safety of the chicken meat is necessary. Poultry can be contaminated with a variety of microorganisms including certain food-borne pathogens which upon consumption can cause human illnesses. The aim of the study was to identify the presence of microbial contaminants in the meat of broiler and country chickens by performing standard biochemical tests for bacteria. The results revealed that meat from both broiler and country chickens is contaminated with pathogens such as E.coli, Salmonella etc.

*Keywords*- Chicken meat, microbial quality, biochemical tests, illness.

## I. INTRODUCTION

The consumption of poultry meat is rapidly increasing throughout the world. The microbiological safety and quality of poultry meat are equally important to producers, retailers and consumers. The poultry industry suffers greater economic loss than any other livestocks industries because of the greater susceptibility of their species to microorganisms than any other species. The contamination of poultry meat with food-borne pathogens causes many illnesses [1]. Foodborne disease results from eating contaminated food or beverages and is frequently referred to as food poisoning. It is caused by pathogenic virus, bacteria, parasites and chemical or natural toxins that contaminate food. It is a major health concern worldwide [2].

During the slaughter of poultry birds, the fecal contamination of the carcasses from the gut of these birds on which the pathogenic bacteria if present is spilled and is passed on as contaminants [3]. Because of the relatively high frequency of contamination of poultry with pathogenic bacteria, raw poultry products are reported to be responsible for a significant number of cases of human food poisoning [4].

Poultry meat can be contaminated with a variety of microorganisms, including those capable of spoiling the product during chill storage, and certain food-borne pathogen. The most important bacterial contaminants present in poultry

meat are Salmonella and Campylobacter which is responsible for gastroenteritis in humans. Collibacillosis and Salmonellosis are been described as the leading causes of food-borne illnesses worldwide [5]. Escherichia coli is another important food-borne pathogen responsible for Collibacillosis. E. coli is a natural inhabitant of the intestinal tracts of humans and warm-blooded animals and it acquires microbial resistance quicker than any other bacteria [6]. Other emerging pathogen Aermonas species must also be considered. They are responsible for intestinal and extra-intestinal infections in humans [7].

While poultry is not the only source of the pathogenic organisms, it is widely recognised as a major reservoir due to symptomless carriage in the live bird. The problem is exacerbated by the modern conditions poultry farm like intensive rearing, where large numbers of birds are kept together, and high-rate processing, in which carcasses remain in close proximity throughout the operation. Such conditions favour the spread of any pathogens that may gain access to the flock. Moreover, the use of antimicrobials in poultry production, whether for therapeutic or for performance-enhancing purposes like weight gain contributes to the development of resistance in pathogens, which is increasing, and have serious consequences for the treatment of human illness from these organisms [8].

The native microflora of processed poultry is composed of many types of bacteria and yeasts, most of which are the part of the microflora of live poultry. For example, the bacteria Campylobacter and Salmonella inhabit the intestines of healthy birds, and can cause disease in humans, depending on their pathogenicity and the number and concentration of bacteria on the product. The sum of these factors will determine whether the consumer is at risk at the time of consumption. Further, the contamination of carcasses and meat with poultry bacteria is not the only health risk to humans since the bacteria carried by poultry workers can also be transferred to the carcasses and subsequently to consumers [9].

Hence, this study was performed to analyse the microbial contamination in the fresh broiler and country

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## Comparative Study of Phytochemical Analysis of Leaves And Roots of Persea Americana

Dr. P. Chitra<sup>1</sup>, Salupriya.N.S.<sup>2</sup>

<sup>1</sup>Associate Professor and Head, Dept of Biochemistry, <sup>2</sup>Dept of Biochemistry, <sup>1,2</sup> Sri Ramakrishna College of Arts and Science for Women, Coimbatore -44

Abstract- Medicinal plants are known as the "old as mankind on earth". They are useful to treat many diseases. Many bioactive compounds are present in the plants that has physiological activity against illness. The present study aims to determine the phytochemical constituents of ethanolic leaf and root extract of Persea americana. Persea americana (Lauraceae) plant is a semi ever green grown up to 65 feet that produces alligator pear fruit. The fruit is edible; after consumption the seed is discarded the fruit has received some scientific scrunity. The plant parts are very effective against hyper-tension, inflammation, cancer, wounds and many other diseases. The phytochemical analysis was done by performing standard tests for various phytochemical constituents. Phytpchemicals are the bioactive compounds, present as in chemical forms. These compounds are present in medicinal plants against mainly diseases like diabetes, malaria, cold and etc. The study revealed rich presence of majority of phytochemical constituents which can be correlated with the possible significant medicinal potential of the plant.

*Keywords*- bioactive compounds, lauraceae, Persea americana, phytochemicals.

## I. INTRODUCTION

Medicinal plants are used by mankind since the beginning because of its high therapeutic value. Plant based medicinal systems play a crucial role in the human's life. Approximately 80% of the world's population depends on the traditional medicines for their primary health care [1]. Medicinal plants have a different ability to synthesize a variety of chemical compounds that perform important functions to defend against pathogenic microorganisms. Almost 12,000 such compounds are isolated from a number estimated to be less than 10% of the total. The plant parts such as leaves, seeds, fruits, barks, roots are used as medicine for various kinds of diseases [2].

In India, most of the people use plants as medicines which is an ancient practice. India has an incredible source of medicinal plants in the region of eastern Himalayas, Western Ghats and Andaman and Nicobar Island. The officially documented plants with medicinal potential are 3000 but traditional practitioners use more than 6000 species <sup>[3]</sup>. India is considered as the 'botanical garden of the world' due the largest production of medicinal herbs. In India, Ayurvedic form of medicine is being practiced for thousands of years back. The common medicinal plants seen in India are *Osimum santum, Curcuma longa, Aloe barbadenis, Commiphora wighitti*, and *Bacopa monnieri* <sup>[4]</sup>.

Phytochemicals are the biologically active compounds present in plants. The important compounds are the alkaloids, carbohydrates, tannins, saponins, steroids and glycosides. Phytochemicals are the natural defence system in plant against host plant and also provide colour, flavour and aroma. The natural products play an important role in the drug discovery and development. Hence, it is essential to study the pharmacologically valuable aspects of these medicinal plants [5]. Persea americana isbelongs to the Lauraceae family and it is commonly called as "avocado". In the Western areas of India like Maharashtra, Karnataka, Tamilnadu, Kerala are the big cultivators of the plant and they are used this for various purposes. This plant is a rich source of polyphenolic compounds [6]. The present study aims to investigate the phytochemicals of the ethanolic extract of both root and leaves of Persea americana.

## II. MATERIALS AND METHODS

## COLLECTION OF PLANT

Healthy fresh leaves and roots of *Persea americana* were collected from Wayanad District of Kerala. The plant leaves and roots were cleaned and after that air-dried for 3 weeks and coarsely powdered and stored in air tight bags in a cool place.

### EXTRACT PREPARATION

Using soxhlet apparatus, the root and leaf extract were prepared, by adding 30g of powder in 150 ml of ethanol.

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## Phytochemical Analysis and Antioxidant Activity of Pisonia Umbellifera Leaf Extract

## Kaviya priya. P<sup>1</sup>, Shobana. B<sup>2</sup>, Karthiha. N<sup>3</sup>

<sup>1, 2, 3</sup> Dept of Biochemistry

<sup>1, 2, 3</sup> Sri Ramakrishna College of Arts and Science for Women, Coimbatore-44, Tamil nadu.

Abstract- Medicinal Plants are gifts of nature which are the sources of bioactive constituents. Medicinal plants have played an essential role in the development of human culture. They are the resources of traditional medicines and many of the modern medicines are produced indirectly from plant. Medicinal plants have long played important roles in the treatment of diseases all over the world. Pisonia umbellifera is a traditional medicinal plant. It is commonly known as Leeachai kottai keerai in tamil, is widely used plant which belongs to Nyctaginaceae family. The present investigation focus on screening of phytochemical constituents, antioxidant activity of Pisonia umbellifera leaf extracts.

Keywords- Medicinal plants, phytochemicals, antioxidant.

## I. INTRODUCTION

The term of medicinal plants include a various types of plants used in herbalism and some of these plants have a medicinal activities. These medicinal plants consider as a rich resources of ingredients which can be used in drug development and synthesis [1].

According to the World Health Organization state that traditional medicine is used in plant parts such as a leaf, stem, bark, and flowers estimated to be used medicine by 80% of the population most of developing countries [2].

Plants are important source of drugs; especially in traditional medicine. It is a common practice in Nigeria and other parts of the world to use the plant in the form of crude extracts, decoction, infusion or tincture to treat common infection and chronic conditions [3].

The herbal products today are considered to be safer to human and environment in India has different parts of several medicinal plants or their extracts are used for the treatment of various diseases. Herbal medicines have not gained much importance due to the deficient in of scientific facts for their mechanism of exploit [4].

Pisonia umbellifera belongs to the Nyctaginaceae family, commonly known as Lettuce Tree, is an evergreen tree of 9-12m height found wild in the beach forests of Andaman

Islands and cultivated to a small extent in South India and Ceylon. It is used as a diuretic. A perusal of literature revealed that *Pisonia umbellifera* is an untapped candidate for antidiabetic activity though it is extensively used in traditional healing in Kerala for diabetes [5].

Pisonia umbellifera is also used in the treatment of ulcer, dysentery and snake bite. The leaves are edible and mostly used to treat wound healing, rheumatism and arthritis [6]. This study is also focused on antioxidant antibacterial antidiabetic and anti-inflammatory activity of Pisonia umbellifera.

## II. MATERIALS AND METHODS

Pisonia umbellifera leaf extract were selected for these studies. The materials and methods pertaining to the current study "phytochemical screening and Antioxidant activities in the ethanolic leaf extract of pisonia umbellifera are discussed under the following phases:

## PHASE I

## 1.1 Collection of plant sample

## 1.2 Extraction Procedure

1.2.1 Preparation of Aqueous extract

1.2.2 Preparation of Ethanol extract

## PHASE II

2.1 Phytochemical Screening

2.2 In vitro Antioxidant Activity

2.2.1 Ferric Reducing Antioxidant Power Assay

## PHASE I

## 1.1 Collection of plant sample

Healthy fresh leaf of *pisonia umbellifera* were collected from the nearby areas of karur, district. The plant sample is rinsed with distilled water and dried at room

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## Phytochemical Screening And Anti- Inflammatory Activity Of Flower Extract Aerva Lanata(L.)Juss. Ex Schult

Shobana. B<sup>1</sup>, Kaviya priya.P<sup>2</sup>, Karthiha. N<sup>3</sup>

1, 2, 3 Dept of Biochemistry

<sup>1, 2</sup>, <sup>3</sup> Sri Ramakrishna College of Arts and Science for Women, Coimbatore- 44, Tamil Nadu, India.

Abstract- Medicinal plants are the most important source of life saving drugs and have been widely used for the treatment of diseases in traditional way for several years [1]. Nature has been a vast reservoir of remedies in the form of medicinal herbs for the treatment of numerous ailments since ancient times [2]. Though there are various approaches to control diseases and their secondary complications, formulations are preferred due to lesser side effects [3]. Aerva lanata (L.) Juss. ex schultbelongs to the family Amaranthaceae. Aerva lanata is a weed that is distributed widely in India, especially in warm and plane areas [4].Aerva lanata (L.) Juss.exschult(Amaranthaceae) is a woody, prostate or succulent, perennial herb or under shrub. It is traditionally known as Pashana Beda.It is also called in English as a stone breaking plant. It is commonly known as pula poo. . A variety of pharmacological activities of theplant such as anthelminthic, demulcent, anti-inflammatory, expectorant, hepato-protective and nephron-protective [5]. Therefore the aim of the study is to investigate the phytochemicals and anti- inflammatory activity from flower of Aerva lanata.

*Keywords*- medicinal plants, phytochemical, anti-inflammatory.

### I. INTRODUCTION

Herbs contain many phytoconstituents that contribute to their vast array of pharmacological activities leading to the production of beneficial effects [2]. The value of plants lies in the potential access to extremely complex molecular structure that would be difficult to synthesize in the laboratory[1].

The traditional medicines system is a rich source of valuable medicinal plants but there is no scientific data to establish the activity of these plants. These plants need to be evaluated, based on their biological efficacy and chemical constituents for the drug development [6].

Several hundreds of plant genera are used medicinally as herbal preparations in the indigenous system of medicine in different countries and are sources of potent and powerful drugs [7]. Traditional knowledge of herbal drugs has been inherited from generation to generation by words of mouth and preserved with practice only[8].

Aerva lanata (L.) Juss. ex schultbelongs to the family Amaranthaceae and it is a tropical plant and growing in India, Arabia, Sri Lanka, Philippines and Java. Aerva lanata is a weed that is distributed widely in India, especially in warm and plane areas. Aerva lanata is extensively used in traditional medicinal systems to cure a variety of disorders such as helminthic infection, diabetes, inflammation, skin diseases, kidney stone, headache, cough, cholera, dysentery and diarrhea [4].

Leaves are woolly, tomentose throughout, and smaller in flowering branches. Flowers are very small, sessile, bisexual, greenish or dull white, often clustered with spikes. Seeds are kidney-shaped and shining black in colour. The root has camphor like aroma and medicinally important [5].

Aerva lanata (L.) Juss.ex schult is found throughout tropical India as a common weed in fields and wasteland. Because of its reputation in folk medicine, Aerva lanata has become the subject of intense pharmacological and chemical studies for the last 30 years. Various studies have demonstrated its versatile pharmacological activities [9].

### II. MATERIALS AND METHOD

### PHASE I

- 1.1 Collection of plant samples
- 1.2 Preparation of plant extract
- 1.2.1 Preparation of Ethanol extract
- 1.2.2 Preparation of Aqueous extract

### PHASE II

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# Preliminary Phytochemical Analysis and Total Phenolic Content of Leaf Extract Rhodomyrtus Tomentosa

Kousalya. J<sup>1</sup>, Chitra. P<sup>2</sup>

<sup>1, 2</sup> Dept of Biochemistry

<sup>1,2</sup> Sri Ramakrishna College of Arts and Science for Women Coimbatore – 44, Tamil Nadu, India.

Abstract-Medicinal plants are widely used in nonindustrialized societies, mainly because they are readily available and cheaper than modern medicines. The annual global report value of 50,000 to 70,000 plants with suspected medicinal properties was estimated to be US\$ 2.2 billion in 2012 [1] and in 2017, the potential global marked for botanical extracts and medicines was estimated at several hundred billion dollars [2]. In many countries, there is little regulation of traditional medicine, but the world health organization coordinates a network to encourage a safe and rational usage. Medicinal plants face both general threats such as climate change and habitat destruction [3]. Rhodomyrtus tomentosa is a member of the Myrtaceae plant family native to Indian Sub- continent, China and South-East Asia. The plant is mainly growing along coastal shores, wetlands and riparian zones, from sea level up to 2400 m elevation [3]. R.tomentosa extract possesses potential antiinflammatory and antiulcer activity, and can serve as a potent antioxidant [4],[5],[6]. Therefore the aim of the study is to investigate phytoconstituent theand thin chromatography from leaves of R. tomentosa.

Keywords- medicinal plants, phytoconstituents, phenol.

### I. INTRODUCTION

Medicinal plants are the core of traditional medicine among the rural dwellers worldwide since the very beginning of civilization. The therapeutic use of herbs dates back to the third millennium BC during the Sumerian and the Acadian civilizations and are still utilised to treat numerous aliments in the traditional Chinese, Egyptian, Ayuevedic, unani, siddha and medicinal systems[7]. The nature hosts with more than 2000 species of plants whose phytochemical properties are still unveiled[8].

Nature has been a source of medicinal agents for thousand of years and an impressive number of drugs have been isolated from natural sources. World plant biodiversity is the largest source of herbal medicines and still about 60-80% world population relies on plant based medicines which are being used since the ages as traditional health care system[9].

Rhodomyrtus tomentosa is a member of the Myrtaceae plant family native to Indian Sub- continent, China and South-East Asia. The plant is mainly growing along coastal shores, wetlands and riparian zones, from sea level up to 2400 m elevation[3]. The plants can grow up to 1-2 m tall, and sometimes 3 m in height. The leaves are oval in shape, rounded tips. The flowers have five bright pink petals that fade to pale pink as they age. It has five sepals at the base and numerous stamens in the center. The fruits are edible, oblongshaped berry, and crowned by the persistent sepals[10]. Previous studies on this plant had show antibacterial activity leaves ethanolic extract against Streptococcus pyogenes[11]. R.tomentosa extract possesses potential antiinflammatory and antiulcer activity, and can serve as a potent antioxidant [4], [5], [6]. Therefore the aim of the study is to investigate the phytoconstituent from leaves of R. tomentosa.

### II. MATERIALS AND METHOD

### PHASE I

- 1.1 Collection of samples
- 1.2 Preparation of plant extract

### PHASE II

- 2.1 Qualitative phytochemical screening
- 2.2 Qualitative analysis- Total phenolic content

### PHASE I

### 1.1 COLLECTION OF PLANT MATERIAL:

Fresh leaves of *Rhodomyrtus tomentosa* were cut and washed under running tap water to remove all foliar contaminants, dried at room temperature for 10-15 days, and pulverized to fine powder. The powdered leaves were

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# Synthesis Of Tamoxifen PLGA Encapsulated Nano Particles Using Alkyl Method And Anti-Cancer Activity In Breast Cancer Cell

Kirubadevi V<sup>1</sup>, Dr.Chitra P<sup>2</sup>, Ragunanthan R<sup>3</sup>

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<sup>1,2</sup> Sri Ramakrishna College of Arts and Science for Women, Coimbatore – 44.

<sup>3</sup> Center for Bioscience & Nanoscience Research, Echanari, Coimbatore-21.

Abstract- Tamoxifen (TMX) sold under the brand name Nolvadex. The medication that is used to prevent breast cancer in women and men. It has been used for Albright syndrome. In the present study Tamoxifen mediated PLGA coated nanoparticle was synthesized and Anti-cancer activity was performed.

Keywords- Tamoxifen, Anti-cancer.

### I. INTRODUCTION

Cancer is a group of diseases characterized by uncontrolled growth and spread of abnormal cells. If the spread is not controlled, it can result in death. The reason for many cancers is not known particularly those that occur during childhood, However there are many known cancer causes like lifestyle factors, use of tobacco, excess body weight, inherited genetic mutations, hormones, and immune conditions. The risk factors may act simultaneously or in sequence to initiate and/or promote cancer growth [1].

Tamoxifen has been used as a treatment for women who have been diagnosed with breast cancer for roughly four decades and has been approved as chemoprevention for over ten years. Although tamoxifen has been proven to be beneficial in preventing breast cancer in high-risk women, its use has not been widely embraced. To some extent, this is due to several of its side effects, including an increased risk of endometrial cancer and pulmonary embolism, but these serious side effects are rare. The risks and benefits of tamoxifen chemoprevention should be considered for each patient [2].

### II. MATERIALS AND METHOD

PHASE I. COLLECTION OF DRUG TAMOXIFEN (10mg) were bought from medical shop in Coimbatore, Tamilnadu, India.

### NANO PARTICLE COATING TAMOXIFEN DRUG

Tamoxifen citrate nanoparticles (TNPs) were prepared by a multiple-emulsion solvent evaporation method, with some modifications of the reported methods.15–17 The compositions of the different formulations .

Tamoxifen citrate and subsequently PLGA (85:15) (~200 mg) were dis-solved in 0.5 mL of methanol and 1.5 mL of dichloromethane mixture (phase 1). PVA was dissolved in water (2.5% weight per volume [w/v]) (phase 2), and 0.5 mL of phase 2 was added drop-wise into phase 1 with homogenization at an optimized speed (22,500 rpm) using a high-speed homogenizer

The prepared primary emulsion was then added slowly into 75 ml of 1.5% (w/v) PVA solution (phase 3) with a continuous homogenization (22,500 rpm), which produced a secondary emulsion. The secondary emulsion was then placed on a magnetic stirrer and stirred overnight for evaporation to remove organic solvent and solidification of the particles.

The nanoparticles were then first separated by centrifugation at 5,000 rpm for 5 minutes to separate larger particles and then the supernatant was collected and recentrifuged at 15,000 rpm for 45 minutes. The solid particles, thus separated, were resuspended in Milli-Q water and centrifuged to wash the particles to remove the excess PVA attached on the surface of the nanoparticles and to remove the free drug. The washing was repeated three times. The separated nanoparticles were frozen at -40°C and lyophilized for 7–8 hours to obtain a solid product. The product obtained after lyophilization was kept overnight in a desiccators for the removal of the remaining moisture, then the

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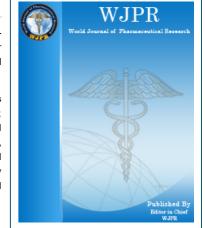






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Hricha Joshi\*, Ajay Singh Bisht and Divya Juyal



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# QUALITATIVE AND QUANTITATIVE STUDIES OF SANTALAM ALBUM & ROSA BRACTEATAE PLANT EXTRACTS FOR SKIN BENEFICIERIES

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Article Received on 01 May 2018,

Revised on 22 May 2018, Accepted on 12 June 2018,

DOI: 10.20959/wjpr201812-12752

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India.

### **ABSTRACT**

Background: Sandalwood is a parasitic plant, equipped with special structures on its roots that penetrate the roots of host plants and obtain nutrients. Indian sandalwood has the highest oil content (6 to 7%) and a desirable aroma profile. It acts as a facial skin toner and complexion booster. Similarly, roses were originally wild and they come from several parts of the world, North America, Europe, northwest Africa and many parts of Asia and Oceania. There are over 100 different species of roses. Roses possess exotic odor and refreshes the skin. Total phenolics study are highly essential for determining the plant's beneficial characters and provide a way for cosmetic formulations. Objective: The main objective of this study is to analyze the secondary metabolites of *Santalum album* and *Rosa bracteatae* using various solvents of extraction. It includes phytochemical studies and

phenolic content studies. **Materials and Method:** Plant extracts of sandalwood and rose petals obtained from three different solvents were subjected to phytochemical analysis and TPC (total phenolic contents) studied using chemical methods and formulations. **Results:** The plants yielded highest beneficial results in ethyl acetate solvent. It also resulted in highest TPC (total phenolic content) with the same solvent thereby showing the appropriateness for choosing a solvent for maximum extraction. **Conclusion:** The study shows the beneficial effects of plant's phyto constituents for skin that was applied for solving various skin problems. These secondary metabolites can replace various cosmetic synthetics and used as natural skin products.

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# A Comparative Study on The Hypoglycemic Potentials of The Roasted And Germinated Ragi

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Abstract- Foods with a low glycemic index are useful to manage maturity onset diabetes, by improving metabolic control of blood pressure and plasma low density lipo protein cholesterol levels due to less pronounced insulin response. In the present study, we made an attempt to analyse the impact of millets by traditional processing methods such as roasting and germination in the management of NIDDM. The millet diet is known for high sustaining power and is usually recommended for diabetics. Germinated ragi exhibits a potent hypoglycemic effect due to its high phenolic and dietary fiber. Regular consumption of millet is known to reduce the risk of diabetes mellitus and gastrointestinal tract disorders and these properties were attributed to its high polyphenols and dietary fiber contents. Several millet based novel food products can be developed and traditional recipes need to be promoted for the well being of the public.

*Keywords*- alpha amylase, alpha glucosidase, roasted ragi, germinated ragi

### I. INTRODUCTION

Millions of people all over the world suffer from Diabetes mellitus, a common endocrine disorder. This disorder is characterized by hyperglycemia which occur due to absolute or relative lack of insulin secretion. There are two forms of DM. Type I (IDDM) and type II (NIDDM) among which type II is the major form of diabetes which reflects from defects in insulin secretion or rather insulin resistance.

Millet has been shown to be helpful in type 2 diabetes mellitus, cardiovascular disease and cancer due to its low glycemic index and antioxidant activity (Hathan and Prasanna, 2011). Research priorities on type II diabetes are now -a-days becoming more prevalent with increased emphasis on its management through dietary practice. Considering the diet-linked challenge of type II diabetes, consumption of foods rich in  $\alpha$ -amylase and  $\alpha$ -glucosidase inhibitors - so called hypoglycemic foods - are receiving more attention and being investigated extensively.

One of the strategies employed to manage type 2 DM is the use of the drugs which inhibit the enzymes responsible for carbohydrate metabolism. α-Amylase and α-glucosidase are well-known key enzymes, playing a vital role in the management of hyperglycemia linked type II diabetes. Acarbose, miglitol and metformin are certain examples of commercially available enzyme inhibitors for the clinical treatment of type II diabetes. They slow down the absorption of carbohydrate through the inhibition of enzymes responsible for the digestion viz., pancreatic alpha amylases and glucosidase. There are used to treat diabetes as they reduce post prandial hyperglycemia. However, these drugs are reported to cause various side effects such as abdominal distention, flatulence and possibly diarrhea due to the excessive inhibition of pancreatic α-amylase, which resulted in abnormal bacterial fermentation of undigested carbohydrates in the colon (Ranilla et al., 2008). Hence, at present there is an increasing interest among the food scientists to find out an alternative natural source of  $\alpha$ -amylase inhibitor with potential antioxidant activity without any side effects for the dietary management of type II diabetic patients (Kwon et al., 2006; Cheplick et al., 2007; Ranilla et al., 2008).

ISSN [ONLINE]: 2395-1052

Keeping these in mind an attempt was made in the present study to evaluate the activity of the enzyme alpha amylase and glucosidase in the roasted and germinated form of ragi.

### II. MATERIALS AND METHODS

Processing of the millets: The ragi millets were first cleaned thoroughly and made free from dust, dirt, and foreign matter. Any seeds which were spoiled or with cracked hull were discarded and the remaining seeds were surface sterilized with 0.1% (w/v) potassium permanganate solution. Millets are roasted in a open dry pan at 60° C for 3 mins till a pleasant aroma develops. For sprouting, seeds were soaked in distilled water for 4h at room temperature (RT). The excess water was drained, sample further rinsed with distilled water, seeds placed in a single layer on filter paper in sterile petri dishes and placed in the muslin cloth at the room temperature, 90%

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# Phytochemical Evaluation of Cassia Fistula Leaves – "The Golden Shower"

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**Abstract-** Since ancient times, the world has been a part of herbal medicinal system. Cassia species are worldwide. The plant Cassia fistula, which belongs to the family leguminosae has a great medicinal potential and used in the Ayurvedic system of medicine for the treatment of ailments. As phytochemicals or the secondary metabolites which are present in various parts of plants, play an important role in the biological activities, these are considered as "manfriendly medicines". The present study aimed in evaluating phytochemical components present in the ethanolic extract of Cassia fistula. It was observed that the ethanolic extract of the high levels of alkaloids, Cassia fistula possess flavonoids. tannins. phenols. phytosterols. saponins, carbohydrates, glycosides, diterpenes, proteins aminoacids. These phytocomponents might be the key agents responsible for the ailment of adverse effects.

*Keywords*- Cassia fistula, leaf extract, pharmacology, phytochemistry.

### I. INTRODUCTION

Nature is a wealthy source with abundant medicinal plants containing different active constituents that are familiarised to cure disease and relieve from pain. Cassia fistula, a member of leguminosae family also known as Indian laburnum or Golden shower tree because of its beautiful bunches of yellow flowers is distributed in Mauritius, India, South Africa, Mexico, China, West Indies, East Africa and Brazil.<sup>[1]</sup>In Ayurveda, *Cassia fistula*is used for adenopathy, burning sensations, leprosy, skin diseases, syphilis, and tubercular glands and in Yunani, the leaves are used for treating inflammation. [2] Several pharmacological studies has reported about the plant for its  $bacterial^{[3]}, antidiabetic^{[4]}, hypocholesterolaemic^{[5]}, hepatoprotec\\$ tive<sup>[6]</sup>, anti-tumour<sup>[7]</sup>, laxative<sup>[8]</sup> and antioxidanteffects<sup>[9]</sup>. Besides its pharmacological properties, the plant extract is also suggested in prevention of pests and disease control agents in India. [10],[11] and[12]. Thus the plant has a widespread acceptance across the world.

#### II. MATERIALS AND METHODS

### **Collection of plant material**

The fresh leaves of *Cassia fistula*were collected from the various parts of Palakkad District, Kerala. Washed the leaves with clean sterile water and allowed to shade dry. Using mechanical blender the shade dried leaves were ground into fine powder and then transferred into air tight container.

### **Preparation of Extraction**

20gms of the powdered leaves of *Cassia fistula* were subjected to Soxhlet extraction at room temperature for 48 hours in 100 ml of ethanol. The filtrate solution was concentrated and evaporated and stored in a cool place.

### Phytochemical screening

The preliminary phytochemical analysis of crude extract were performed for the detection of the chemical compounds present in it according to the standard procedures. [13], [14], [15], [16], [17] and [18]

### **Test for Alkaloids**

- a) Hager's test: To 1 ml of plant extract, a drop or two of Hager's reagent was added. The formation of yellow precipitate indicated the test as positive.
- b) Wagner's test: Two drops of Wagner's reagent was added to 1ml of the plant extract along thesides of the test tube. The formation of yellow or brown precipitate confirmed the test as positive for alkaloids.

### **Test for Flavonoids**

a) Alkaline reagent test: Addition of 5 drops of 5% sodium hydroxide to 1 ml of the plant extract resulted an increase in the intensity of the yellow colour which became colourless on addition of afew drops

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# QUALITATIVE AND QUANTITATIVE PHYTOCHEMICAL ANALYSIS OF ETHANOLIC LEAF EXTRACTS OF CAMELLIA SINENSIS (TEA) AND VICIA FABA (BROAD BEAN)

Dr.P.Chitra<sup>1</sup>, Kiruthiga.R.<sup>2</sup> Associate Professor and Head, Department of Biochemistry<sup>1</sup>, MPhil scholar<sup>2</sup> Department of Biochemistry, Sri Ramakrishna College of Arts and Science for Women, Coimbatore -641044, Tamilnadu, India.

### **Abstract:**

Medicinal plants contains various bioactive compounds involve in physiological activity against many pathogenic disease. Aim of the present study is to determine the qualitative and quantitative phytochemical constituents of ethanol leaf extract of Camellia sinensis and Vicia faba. Quantitative analyses of extracts were analyzed using GC-MS reveals presence of major active compounds. The active compounds were identified by comparing their retention time and peak area. Many compounds were used in industry for various applications like flavor, antioxidant, anti-inflammatory, antimicrobial, pesticide and cancer preventive.

Index terms: Phytochemical, GC-MS, Camellia sinensis, Vicia faba

### I Introduction:

Medicinal plants play a vital role in the production of new drug in India. Several steps have been taken to promote plant as medicine and to integrate them into clinical practice<sup>[1]</sup>. Medicinal plants are considered as rich source of ingredients that could be used in drug development and synthesis. Medicinal plants also play a critical role in the development of human cultures around the world<sup>[2]</sup>. The bioactive compounds in the traditional medicines and fruits are important to protecting a number of diseases. According to the World Health Organization (WHO) in 2008, more than 80% of the world depends on traditional medicine for their primary healthcare. Medicinal plants contain rich source of secondary metabolites with interesting biological activities. These secondary metabolites are with a variety of structural arrangements and properties [3]. Gas chromatography has a very wide field of applications. But, its first and main area of use is in the separation and analysis of multi component mixtures. It act as the analytical technique for quality control and phyto therapeutics. Camellia sinensis is the commercially available crop cultivated throughout South Asia. This plant is a member of theaceae family which is an evergreen shrub with large number of branches. The tea leaf has much beneficial medicinal value on the body. In the recent herbal era, green tea is one of best tonic for healthy being of life. Black tea leaves can also effective against oxidative stress<sup>[4]</sup>. Fava bean is cultivating for 5,000 years, one of the oldest legumes. It is cultivated along Central Asia and Mediterranean region. According to the United Nations Food and Agriculture Organization (FAO), 60% of the total production of Fava bean is produced by China<sup>[5]</sup>.

### **II Materials and Methods:**

### 2.1 Collection of plant materials:

The leaves of Camellia sinensis and Vicia faba were collected from the region of Nilgiri District. The collected leaves were washed and cleaned with distilled water and shade dried for one week.



Figure 1: Camellia sinensis and Vicia faba



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# Traditional Indian Origin Plants For Diabetes Treatment And Respective Choice of Solvents For Extraction

### Hemalakshmi Mohanarangan<sup>1</sup>, Dr.P.Chitra<sup>2</sup>

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Abstract- Present number of Diabetes worldwide is 150 million and this is likely to increase to 300 million or more by the year of 2025. Though there are many medicines (chemical formulations) available for the ailment of this complicated disease, herbal medicines and patho-pharmacology has a tremendous welcome and being a pavement for a chemical free (or less chemical) world. Nevertheless many scientific research reported number of medicinal plants for the treatment of diabetes this review contains a list of few important traditional herbs, specifically from the origin of India (South). Along with the basic guideline for the solvents used on these plant extracts. The information provided in this review will be useful for the researchers to analyze the matter of economical South Indian herbs for Diabetes and their respective solvents.

*Keywords*- Diabetes, Indian herbs, Solvents, Anti-diabetic Plants, Phytochemical Screening.

### I. INTRODUCTION

Diabetes is a great threat to health that is getting worse and causing greater impacts on adults in developing countries. [1] Out of 246 million people residing in developing countries, 80% are diabetic, according to World Health Organization (WHO). [2] Though diabetes is not recorded as the cause of death, it is believed to be the fifth leading cause of death in 2000 after communicable diseases, cardiovascular disease, cancer and injuries. [3] Type 2 – diabetes (non-insulin dependent diabetes) has increased due to changes lifestyle, increasing prevalence of obesity, and ageing of populations. According to WHO, more than 70% of world's population uses medicinal and traditional plants to satisfy. [4] Medicinal plants and herbal therapy provides better results for the prevention and curation of the complicated disease diabetes mellitus. [5] Specifically, polyherbal therapy provides a vast key for the treatment of diabetes with minimum side effects thereby using the plants secondary metabolites.

### II. MEDICINAL PLANTS USED FOR DIABETES

### Allium sativum (Garlic)

Garlic (*Allium sativum L., Liliaceae*) is a common spicy flavoring agent used since ancient times. It has been cultivated in all over Iran for its characteristic flavor and medicinal properties. <sup>[6]</sup> Reports from many recent studied revealed that garlic possess therapeutics and pharmacological properties. Its major protective effects have been well established with many epidemiological studies and animal experiments. Scientific reports have shown that commercially available garlic preparations in the form of garlic oil, garlic powder, and pills are widely used for certain therapeutic purposes, including lowering blood pressure and improving lipid profile. <sup>[7]</sup> Clinically used glibenclamide (a sulphonylurea drug) is known to lower the serum glucose by stimulating b-cells to release insulin.

### Ocimum sanctum (Krishna Tulsi)

Ocimum sanctum Linn. (Labiate), commonly known as holy basil, has made important contribution to the field of science from ancient times as also to modern research due to its large number of medicinal properties. Ocimum sanctum has been described as of two types i.e., vanya (wild) and gramya (grown in homes). Although having identical usage, the former has darker leaves. [8] It is an herbaceous plant found throughout the south Asian region is used medicinally in catarrhal bronchitis, bronchial asthma, dysentery, dyspepsia, skin diseases, chronic fever, haemorrhage and helminthiasis, and topically for ringworms. [9] It is also effectively used for hiccough, ophthalmia, gastric genitourinary disorders, skin diseases, various forms of poisoning and psychosomatic stress disorders. The leaf is claimed to possess hypoglycemic and anti hyperglycaemic effects in experimental animals. [10]

### Ocimum gratissimum (Rama Tulsi)

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### TECHNOLOGICAL INNOVATION IN BANKING SERVICES A BOON FOR FINANCIAL SECTOR

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della de la companya Research Scholar, (M.Phil), Department of Commerce Sri Ramakrishna College of Arts and Science for Women, Coimbatore

### Abstract

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Technological Innovations have the potential to continue to significantly transform the financial services industry and benefit society. They can replace individual banks' legacy systems, enhance processes, improve efficiencies and strengthen controls. They can also provide opportunities for the creation of new products and services that benefits customers. Ultimately, technological innovations hold great promise for the identification of new customers and the

provision of financial services to the unbanked or under banked community in a safe and sound manner. This paper aims at studying the need for Omni-channel services and the benefits of digitalisation in banking services.

Keywords: RPA (Robotic Process Automation), KYC (Know Your Customer, DLT (Distributed Ledger Technology), SOA (Service Oriented Architecture).

Introduction If the last era in retail banking was defined by a boom-to-bust expansion of consumer credit, the current one will be defined by digital. This will include rapid innovation in payments and the broader transformation in systems enabled by digital technologies. The urgency of acting is acute. Banks have three to five years at most to become digitally proficient. If they fail to take action, they risk entering a spiral of decline similar to laggards in other industries. Revenues and profits will migrate at scale toward banks that successfully use digital technologies to automate processes, create new products, improve regulatory compliance, transform the experiences of their customers, and disrupt key components of the value chain. Institutions that resist digital innovation will be punished by customers, financial markets, and sometimes regulators.

Globally, more innovative incumbent banks and financial institutions are moving rapidly to embrace digital. Most have invested heavily in transaction migration. They have also significantly upgraded web and mobile technologies and created innovation and testing centers. In addition, banks increasingly realize that to succeed with digital, they must adopt the habits and culture of digitally native companies: for example, opening up the banks' application programming interfaces, pursuing agile development, or hosting hackathons to foster intensive digital collaboration.

PRINTED ISSN: 2249-1260 ONLINE ISSN: 2250-1819



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# A Study on Growth and Effects of Startup Ecosystems in India

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Abstract India is a fast developing south Asian and seventh largest country by area. Large population of the country implies a large prospective market in India and puts more pressure for employment in the country. With the gen-next cool trend to start working on new ideas, India is all set to outperform all other nations on the world stage in the years to come. Setting up of small businesses by these young entrepreneurs is definitely going to boost the India economy in the near future. In the present decade, India is undertaking an essential shift towards startup welcoming policies and a business friendly environment. India is a populated country having increasing demand which is putting a competitive environment forcing to create innovative systems. One of these systems is a Startup ecosystem. This paper aims to study about the growth, prospects and effects of Startup systems in India.

**Keywords:** Startups, Innovation, Technological Business Incubator, Ecosystem etc.

### INTRODUCTION

In recent years, Indian youth motivates towards selfemployment instead of rely on parents or government or opportunities. Rather, they start to take initiative to look for new challenges. This encourages and promoting selfemployment environment creates the startup systems in India. A startup is a young company that is beginning to develop and grow, is in the first stages of operation, and is usually financed by an individual or small group of individuals. It is a young company that searches for an unknown business model in order to disrupt existing markets or create new ones. A startup is a young, dynamic company built on technology and innovation wherein the founders attempt to capitalize on developing a product or service for which they believe there is a demand.

Startup India — A clamor that is being heard across the world like never before. Everywhere you go today, you can't miss hearing or reading about how India is the next big startup nation! On 15th August 2015, our honorable Prime Minister Mr. NarendraModi stood at the Red Fort and made a call to "Startup India, Stand up India". His words were echoing the sentiments of today's India-the

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flame had already been ignited in the minds of our youth to create awesome products and companies which will change the world. Never before in the history of the country have so many powerful forces come together to enable the Indian startup ecosystem. The gods have made their will known, the oracle has spoken! The time is here when India is becoming a startup nation.

### Objectives of the Study

- To study the growth and prospects of startups in India.
- To know the effect of "Start up India campaign" in startup ecosystem.
- 3. To study the status of start ups in India.

### RESEARCH METHODOLOGY

This research paper is mainly based on the secondary data. These data are collected from various websites, journals, and newspaper articles. The study is explanatory and conceptual in nature.

### GROWTH AND PROSPECTS OF START UPS IN INDIA

The startup ecosystem is getting a substantial backing from the government which is proving to be a huge motivation for the ecosystem/Indian Prime Minister Mr. NarendraModi has announced the Start-Up India initiative in his Independence Day address in August 2015. The Department of Industrial Policy and Promotion (DIPP) is spearheading the initiative and is expected to start working closely with banks to kick-start the government's Start-Up India initiative in both rural and urban India. Under the initiative, DIPP is expected to start working with banks across the country, especially in rural areas. "If each of these (bank) branches gives tribal or Dalit population something to start up with, it would take the whole startup and innovate India (initiative) thought to district level," MsNirmalaSitharaman has said.

DIPP is also working on ways to reach out to the urban educated and the deprived section of the society to build entrepreneurship. "All over the country, youngsters are



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# INFLUENCE OF TECHNOLOGY ADDICTION CROP UP MENTAL AND HEALTH DISORDERS, SOCIAL OBSTACLES AND ITS' SCENARIO ANALYSIS AMONG DIGITAL NATIVES

# G. Kavitha

Assistant Professor, Dr.NGP Arts and Science College, Coimbatore

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# Abstract

In Today's digital era, Technology has a deep influence on every aspect of human lives. It changes the way to interact, communicate, sharing information among the people. However, this impact is not only positive but also many times negative. Here the intension is to the highlight technology impacts on Physical, Psychological, Society, Communication and Education areas. Now a day's people are living with minimum four network connected gadgets and it's up to them how much percentage need to handle it in safe and unsafe way. Children and adults are tending to be play online games instead of playing outside home with their friends. Advanced Technology occupies the youngsters mind fully in watching unwanted video, gathering information about drugs, viewing commands, likes to videos and images in the social Medias in an unrestricted way which makes them to waste more time because they are admired on it. After huge utilization of technologies, they are mentally and personally isolated from the family and society. Once they are separated, they themselves calling or invoking so many health, Social and Psychological issues.

Everyday facing these kinds of issues automatically alters the human psychological behaviours and also able to see the multiple behavioural characteristics in youngsters mind. It has to be reframed or redefined by creating awareness among youngsters with the aid of Professionals and Government. Besides, cybercrime activities and e-Wastages are also increased. In this paper, analysis was performed by collecting facts and figures about internet addiction and their issues to the digital natives. Suggestion provided based on the data received from the respondents who was born on 1997 and later on, because they grown up with internet. Keywords: Digital Natives, Technology Addiction, Psychological issues, e-Waste and Social Crime.

# Introduction

The Internet was born in 1974 which enables transmission between two universities in ARPANET project at that time. Later in 1989 with of help internet and web application development humans started to transfer text, image, video and other multimedia information spread over the country. The broadband internet is introduced in 1997, later on Google has came up with Search engine which is the most visited website in the World Wide, where the digital transmission held. This is the origin of Digital era, where the students can extract information which may be useful for according to their requirements and at the same time it may bring unnecessary information which will change the behaviour or affect their Psychological behaviours.

# Objective

The intension of this study is to find whether the Digital natives are suffering while accessing new E-Technologies. This study also is used to find the level of addictions and its impacts in various categories like chatting, accessing social media tends to play more online games, checking emails, academic purpose, making calls, knowing latest trends, forwarding and texting, Health disorders, sharing contents in social medias and so on. These all are happening due to the excessive usage of applications those are avail the Internet facilities. Our purpose is to analysis the level of addiction on technology among digital natives and also knows their status internet addiction



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### TECHNOLOGY INNOVATION IN BANKS - NEED FOR OMNI-CHANNEL SERVICES



### Dr.K.Vijaya Venkateswari \*1

\*1 Associate Professor, Department of Commerce, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, India

### **Abstract**

Technological Innovations have the potential to continue to significantly transform the financial services industry and benefit society. They can replace individual banks' legacy systems, enhance processes, improve efficiencies and strengthen controls. They can also provide opportunities for the creation of new products and services that benefits customers. Ultimately, technological innovations hold great promise for the identification of new customers and the provision of financial services to the unbanked or under banked community in a safe and sound manner. This paper aims at studying the need for Omni-channel services and the benefits of digitalisation in banking services.

*Keywords:* RPA (Robotic Process Automation); KYC (Know Your Customer; DLT (Distributed Ledger Technology); SOA (Service Oriented Architecture).

Cite This Article: Dr.K.Vijaya Venkateswari. (2018). "TECHNOLOGY INNOVATION IN BANKS – NEED FOR OMNI-CHANNEL SERVICES." International Journal of Research - Granthaalayah, 6(1), 150-155. https://doi.org/10.29121/granthaalayah.v6.i1.2018.1604.

### 1. Introduction

If the last era in retail banking was defined by a boom-to-bust expansion of consumer credit, the current one will be defined by digital. This will include rapid innovation in payments and the broader transformation in systems enabled by digital technologies. The urgency of acting is acute. Banks have three to five years at most to become digitally proficient. If they fail to take action, they risk entering a spiral of decline similar to laggards in other industries. Revenues and profits will migrate at scale toward banks that successfully use digital technologies to automate processes, create new products, improve regulatory compliance, transform the experiences of their customers, and disrupt key components of the value chain. Institutions that resist digital innovation will be punished by customers, financial markets, and sometimes regulators. Banks increasingly realize that to succeed with digital, they must adopt the habits and culture of digitally native companies. We expect no letup in the pace of change. Within the next five years, digital sales have the potential to account for a good percentage of new inflow revenue in the most progressive geographies and customer segments. In the forthcoming years banks in India



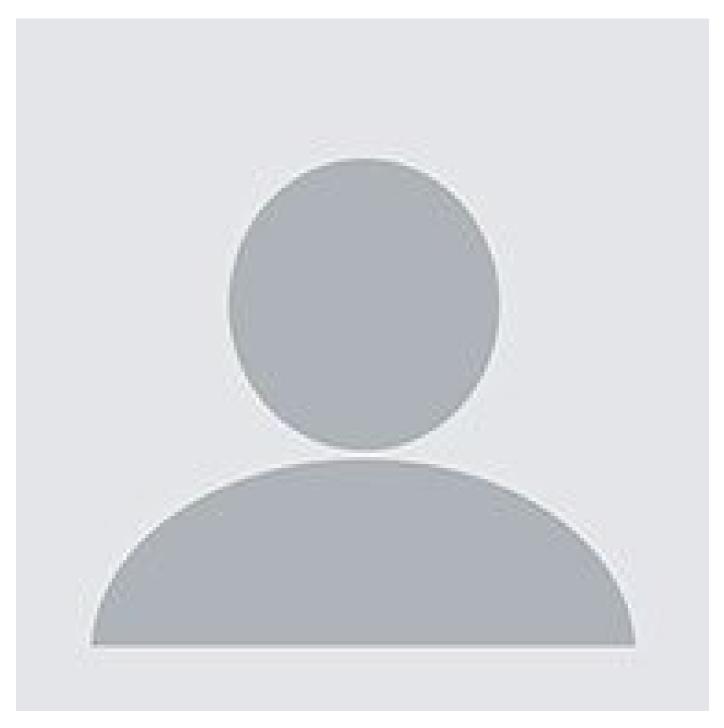
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### An Empirical Study on Awareness of Solar Water Heaters

Author Mrs.P.Kalpanadevi Co-Author Dr.S.Vasantha DOI ()

**■Country:** India **●Subject:** Commerce

Keywords: Renewable energy, solar products, awareness

#### **Abstract**

Solar power is clean green electricity that is created from sun light, or heat from the sun. Solar energy is sustained and totally in exhaustible, unless fossil fuel that are finite. It is also non-polluting source of energy and it does not emit any green-house gases when producing electricity. Solar energy is the instant source of energy. Solar products are available in the market for using both domestically and industrially.. Due to the increasing energy demand and

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#### An Empirical Study on Awareness of Solar Water **Heaters**

#### Mrs.P.Kalpanadevi, Dr.S.Vasantha

#### **Abstract**

Solar power is clean green electricity that is created from sun light, or heat from the sun. Solar energy is sustained and totally in exhaustible, unless fossil fuel that are finite. It is also non-polluting source of energy and it does not emit any green-house gases when producing electricity. Solar energy is the instant source of energy. Solar products are available in the market for using both domestically and industrially.. Due to the increasing energy demand and less availability of energy sources, society needs to find out the alternate source of energy, which should be clean and green, in this way will have abundantly consecrated with solar energy. Solar is the only source can satisfy energy need of the nation.

Keywords: Renewable energy, solar products, awareness

#### 1. Introduction

In the present scenario, the world is dominated by the Electrical Energy and the Electronic devices. The technological improvement in this field is vast and it plays a vital role in day to day lives of people. Solar energy being a renewable energy available in abundance as the natural source sun emits Photovoltaic energy in the sun rays. Solar cells/ panels used to grasp solar energy and converts into electrical energy for usage. Many companies have come in to the market in the commercial sales of solar energy based devices. Due to the increasing energy demand and less availability of energy sources, society needs to find out the alternate source of energy, which should be clean and green, in this way will have abundantly consecrated with solar energy. Solar is the only source can satisfy energy need of the nation. Solar energy can be used for several applications such as lighting, heating and cooling etc., Hence the study creates awareness to use the solar energy in day to day life.

#### 2. Review of Literature

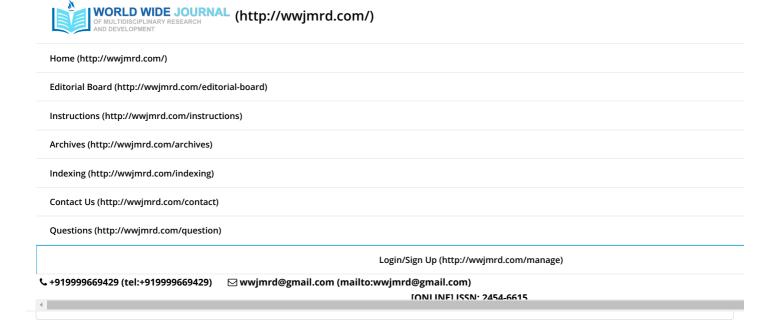
It is a concise overview of what has been studied, argued, and established about a topic, and it is usually organized chronologically or thematically. Review of literature paves way for a clear understanding of the areas of research already undertaken and throws a light on the potential areas which are yet to be covered.

Brindha and Sumathi (2017)1 emphasized that humanity faces an exclusive and extensive challenge in energy/heat. It has played a pioneering role, but there is a narrowing gap between demand and supply of energy. These are all having the so many carbon by-products and pollute the environment. So the man has evolving to find out the alternatives source of clean energy. In such way one of the alternative renewable energy is solar energy. Through this study customers awareness and attitude towards solar water heater have been analysed and provide the suitable suggestions to improve the solar energy utilization in households.

#### Bhavya Padmini et al. (2016)2

Said that solar energy is renewable free source of energy. Solar energy is certainly not a new concept. It has been long realized that, despite the low energy density of the incoming insulation, solar radiation has a large potential as an energy source. Solar power is one of the alternatives to the electricity.

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Michael O. GBADEGESIN

Country: Nigeria

Subject: English Phonology of Second Language Users

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#### A Study on the various food ordering apps based on consumer preference

Mrs I.Karthika

Country : India Subject :

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World Wide Journal of Multidisciplinary Research and Development



WWJMRD 2018; 4(11): 88-89 www.wwjmrd.com International Journal Peer Reviewed Journal Refereed Journal Indexed Journal Impact Factor M.JIF: 4.25 E-ISSN: 2454-6615

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### A Study on the various food ordering apps based on consumer preference

#### Mrs I.Karthika, Miss. A.Manojanaranjani

#### Abstract

The advent of the Internet, accompanied by the growth of related technologies, has created a significant impact on the lives of people around the globe. For marketers, one of the most significant impacts has been the emergence of virtual stores that sell products and services online. Consumer can now purchase goods and services virtually anywhere, 24 hours a day, 7days a week, without geographical and temporal boundaries. The goal is to save time of customers by providing facilities like vacancy list at reception, digital food ordering, instant e-billing and fast parking service which will result in consumer satisfaction and ultimately profit the restaurant. This automated system saves time, reduce human errors, and reduce manpower and gives consumer satisfaction, thus beneficial for both restaurant and customer.

Keywords: Online buying, Ordering food, Food apaaps

#### 1. Introduction

The E-commerce sector in India is rapidly growing at a very quick pace in the new days and up to this present day. This relentless growth of E-commerce is changing the way people assume, search, perform and bring up a yield. Most consumers are adopting new technologies in shopping and with many of them being liberal thinkers, want fast and efficient shopping while also considering other shopping attributes. Majority of companies in the small scale, medium scale and large scale sectors own a website in order to improve their business and they do so by employing online advertisements, online Promotional events/activities thus taking a "digital "leap in the business cycles. The convenience, needs, wants and comfort of the consumers and their buying behaviour and the process of buying is the source of the relentless growth of E-commerce. Online grocery shopping is among the most popular activities of the internet, yet the reasons why consumers will go for epurchasing are still unclear. The present study seeks to document e-purchasing behaviour of consumers, analyse consumer's preferences and perception towards e-purchasing and associate advantages and disadvantages. This study would bring to the fore very useful information for business managers for reorienting their retailing business of food and other related articles focusing working class.

To rank ordering food apps based on consumer preference.

#### 3. Review of literature

**1.Dr.N.Sumathi, S. Josphin** (2017)<sup>7</sup>, in their study enables online food ordering system is one of the largest services for fast food restaurants. This is made possible to use of easy electronic payments system, and also useful for making easy payments for credit card consumer. In this study saying about to reduce the long queues of consumer at the counter ordering for food and also reduce the workload of employees.

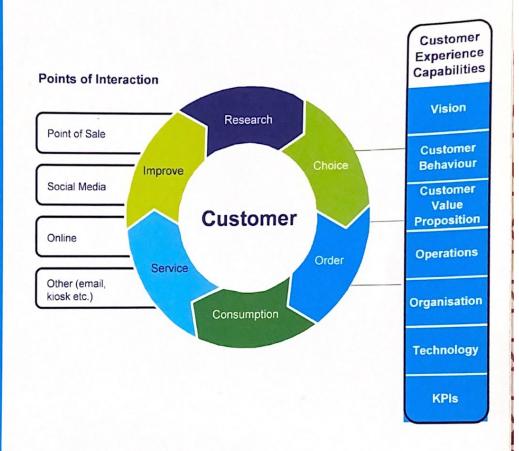
3.Rekha priyadharshini (2017)<sup>8</sup>, in her study examined about India fast food business is growing due to changing of consumer preferences and the largest youth population. The

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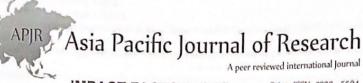
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## RISK BASED APPROACH TO INVESTMENT AWARENESS: AN EMPIRICAL STUDY WITH INDIVIDUAL INVESTORS

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#### ABSTRACT

The variety of investment alternatives in the financial services sector have provided the individual investor with a lot of opportunities to invest. The question lies in the awareness about the alternatives available. It is generally evident that the most common forms of investment is bank deposits and insurance though there are a plenty of other avenues in the market. This study was undertaken to assess the level of awareness of the investors' about the various alternatives available classified based on the risk associated with each of such alternative. The objective of the study was to assess and understand such awareness among the investors in Tamil Nadu. The data was collected through structured questionnaire distributed to 204respondents from different socio economic classes. The results of this survey would help the financial institutions in creating an awareness on the lesser known investment alternatives among the public.

KEYWORDS: savings, investment, risk, return, investor, awareness

#### INTRODUCTION

Investment plays a vital role in everyone's life. Savings and investment are the two fundamental concepts in financial industry. The habit of saving leads to the habit of investing and thereby arises the question of various investment avenues. Economists consider investment as a tangible or physical asset. There are many ways by which individuals can be benefited by saving and investing. By investing, more money can be generated in the form of interest. Money either grows or diminishes. If money is kept idle, its value diminishes. It grows only when it is invested and earns some interest. Money can be invested in stocks, bonds, mutual funds or any other avenues but the objective is to generate more cash in the future.

In financial sense, investment is a monetary asset that is purchased will provide income in the future or will be sold at a higher price for profit. In simple words, investment is the use of money for earning money. The features of investment are mainly risk, return, liquidity, tax shelter and safety of money. Return that is expected depends upon the nature of investment, the maturity period and the other factors determining investment. Risk is something which is found in all kinds of investment. Risk and return are related to each other. Higher the risk, higher will be the return.

In the competitive environment, there are a variety of options available for investments. The present study is an attempt to assess the investors' level of awareness of the various investment options classified based on risk and to analyse the differences in the awareness level across different socio-economic groups.



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#### **Investor Preferences over Risk-mapped Investment Avenues**

#### Dr.D.PADMAVATHI\* & S.SARANYA\*\*

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Received: May 7, 2018 Accepted: June 5, 2018

ABSTRACT The emerging financial services sector has provided a plethora of investment opportunities to individual investors with a variety of combination of risk and return. The question lies in the awareness about the alternatives available. It is generally evident that the most common forms of investment are bank deposits and insurance though there are a -plenty of other avenues in the market. This study was undertaken to assess the preferences of investors' in the various alternatives available classified based on the risk associated with each of such alternative. The objective of the study was to assess and understandtheir behaviour in terms of their investment preferences among the investors in Tamil Nadu. The data was collected through structured questionnaire distributed to 204 respondents from different socio economic classes. The results of this survey would help the financial institutions in creating an awareness on the lesser preferred investment alternatives among the public.

**Keywords:** investment, risk, return, investor, preference, avenues.

#### Introduction

Money either grows or diminishes. If money is kept idle, its value diminishes. It grows only when it is invested and earns some interest. Investment is the employment of funds with an aim to achieve additional income. Return is expected when an investment is made. In other words, investment is an item that is purchased for future appreciation or income. In financial sense, investment is a monetary asset if purchased will provide income in the future or will be sold at a higher price for profit. In simple words, investment is the use of money for earning money.

Investment involves an investor who saves his money and invests in some avenues. An investor is a person who allocates money with an expectation an additional income in the future. In other words, a person who invests money is called an investor. They generally prefer to minimize risk while maximizing returns. There are some investors who are not ready to take risk and so they prefer low-risk investment avenues. There are several types of investors in India where few are only savers, some are regular investors, window shoppers, seasonal traders and so on.

Technology has a great impact on every aspect of our lives. Today investors can search through the web and choose the right investment by just clicking on it. There are applications provided by certain companies for the investors to track their investments. Government has given some tax benefits to people who put their money in retirement accounts i.e. one can escape from paying taxes when the money is taken out. But there is a limit in the amount of money that can be put in the retirement account.

In the competitive environment, banks and other financial institutions offer a wide variety of financial products for investments. The present study is an attempt to assess the investors' preferred investment avenues classified based on risk and to analyse their differences across different socio-economic groups.

#### Objectives of the Study

The study was undertaken in order to study the investors' preferences with the following objectives:

- 1. To assess the investors' preferred investment avenues with regard to the various risk based investment avenues.
- 2. To analyse the differences in their investment preferences across different socio-economic groups.
- 3. To offer suitable suggestions based on this study.

#### **Hypothesis of the Study**

The following hypothesis were framed in order to analyse the differences in the investment preferences of the investors:

Ho<sub>1</sub>: There is no significant difference in the investment preferences with the risk based investment avenues across the socio-economic groups of respondents.

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## LIQUIDITY MANAGEMENT AND CORPORATE PROFITABILITY PERFORMANCE OF TEA COMPANIES IN INDIA

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#### **ABSTRACT**

Liquidity and profitability management is of crucial importance in financial management. In this connection researcher is interested in analyzing liquidity and profitability of selected tea companies in India. In this research, five companies have been taken for analysis and used purposive sampling techniques. Secondary data have been collected for the period of fifteen years from 2002-03 to 2016-17. The OLS model has been used to check the relationship among the independent and dependent variables and its impact. The findings and suggestions would be useful for corporate people to improve their liquidity management and profitability performance.

#### **KEYWORDS**

tea companies, liquidity management, corporate profitability performance.

#### JEL CODE

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#### INTRODUCTION

India is the second largest tea producer in the world. In 2015-16 the production of tea reached 1,233.14 million Kg as per India Brand Equity Foundation report. Around 1,008.56 million kg was produced in North India and 224.58 million kg was produced in South India. Owing to its increasing demand, tea is considered to be one of the major components of world beverage market. Henceforth, considering the growth and prosperity of production of tea market, the study aims to analyze the financial performance of selected tea companies, by regulating a close relationship between the variables in terms of liquidity and profitability. The liquidity and profitability of a firm is measured primarily by debt equity ratio, current ratio, fixed asset, Inventory turnover ratio, debtor turnover ratio, total asset turnover ratio, interest coverage and return on capital employed. Thus profitability and liquidity are the two terms which are most widely observed by both the investors and owners in order to measure performance of the business.

#### **REVIEW OF LITERATURE**

Byson (2015) in his research shows that the relationship between liquidity and profitability of manufacturing companies in Malawi from the year 2007 to 2015. The company's liquidity measured by cash conversion cycle and its profitability measured by return on capital by using a correlation and regression test. From the result, an inverse relationship between the cash conversion cycle and the company's return on investment and return on equity. From his study, conclude that the cash conversion cycle have more impact on a firm's performance. Debasish Sur et al., (2013) have studied the relationship between liquidity and profitability of the Bharat Heavy Electricals Limited (BHEL) by applying Spearman's rank correlation analysis. The study, which covers a period from 2000-01 to 2011-12 reveals that significant degree of negative association between liquidity and profitability of the company during the study period. He concludes that company should manage its business to ensure lower liquidity and higher profitability blend.

Safiuddin et al., (2016) in their study measured the liquidity and profitability performance of the selected pharmaceutical companies from the financial year 2010 to 2014. Researcher analyzed the liquidity position of the selected firms with current ratio and quick ratio and to calculate the profitability of the firm with return on assets and return on equity. They conclude that Cipla firm has performed better in term of liquidity position during the study period. Manoj N. Kagathara (2016) attempted made to measure the liquidity and profitability position of selected automobile companies during the five years commenting from 2010 to 2014. Researcher has collected data from annual reports of selected automobile companies and applied two- way ANNOVA analysis technique to measure the significant difference in liquidity and profitability position. The study concluded that there is no significant difference in liquidity and profitability of the selected companies during the study period. Mohanty (2013) in his study made an attempt to examine and highlights the efficiency of the liquidity management in selected state and private sector industries in Orissa. The selected sectors were engaged in mining, processing, production and manufacturing activities of products of metals and non-metals, ores and alloy in the competitive environment. The study found that there is a fluctuating trend of liquid ratio in all selected sectors during the study period. He concludes that higher the value of liquid ratio shows adequate their liquidity position.

While conducting an analysis the changes in working capital position of selected small firms association with changes in economic activity by Morris Lamberson (1995) found that the liquidity position increased moderately among the selected firms during economic expansion while there is no change in liquidity throughout the economic slowdowns during the study period from 1980 to 1991. He also found that investment in working capital have relatively stable over the period of the study as measured by the inventory to total assets and current assets to total assets ratios. Khatik et al., (2015) in their study made an attempt to examine the liquidity and profitability position of ITC by using various financial ratios during the period 2001-02 to 2013-14. The results of the study showed that the liquidity management of ITC was not satisfactory due to poor current assets management. The study suggested that all the techniques of current assets management should be employed by the company to maintain overall control over liquidity position. Shivakumar et.al.,(2016) conducted the study on "Working Capital Management – Its Impact on Liquidity and Profitability" - A Study of Coal India Ltd for the period from 2010-11 to 2014-15. The correlation results of the study have revealed that there was a negative relationship between liquidity and profitability of selected firm. They concluded that company has better liquidity position due to maintain sufficient liquidity ratio and there is growth trend in profitability during the study period.

In the research study for relationship of working capital with liquidity, profitability and solvency with respect to a case study of HUL Limited (Varghese et al., 2014) concluded that there is no significant difference in the profitability and liquidity position of the company. It shows that profitability position was strong were as the liquidity position was not satisfactory. The risk factor of the selected firm is high as compared to profitability during the study period. In the research study for relationship between liquidity and profitability with respect to a case study of Bharat Heavy Electrical Limited (Venkatachalam.K and Karupaiah A. 2015) concluded



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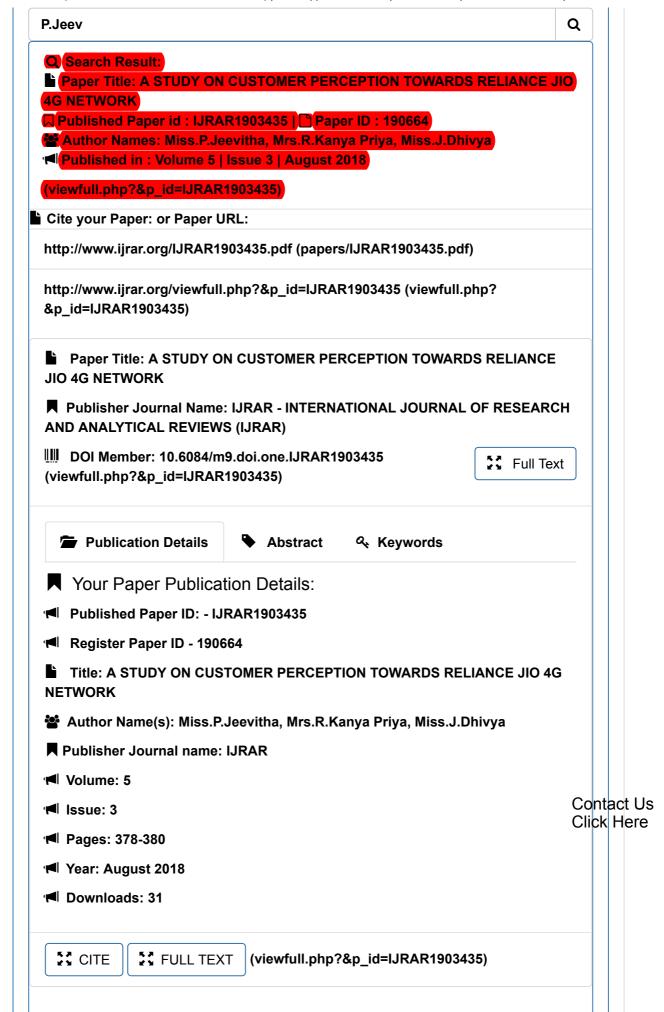
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## A STUDY ON CUSTOMER PERCEPTION TOWARDS RELIANCE JIO 4G NETWORK

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Abstract: In this context, the study attempts to examine the extent of customer perception towards Reliance Jio 4G Network. The survey was administered among 200 respondents who uses Reliance Jio 4G network. Each of the survey responses was entered and analyzed using chi-square test.

*IndexTerms:* Reliance 4G network, Customer perception, customer satisfaction.

#### I. INTRODUCTION

The Present business scenario is totally customer oriented. Each company faces stiff competition from its competitors, each provides the best services at competitive rates. As a result customer has lot of choices to get the best with least cost. To face this competition, it is very necessity to have a marketing strategy to create, communicate and deliver and exchange the products and services to the customers, clients, partners, and society at large.

The core function of the marketing department is to understand satisfy consumer need and desire. Consumer behavior captures all the aspects of purchase, utility and disposal of product and services. In group and organization are considered within a frame of consumer. Failing to understand to consumer behavior is the recipe for the disaster as some company as found it the hard way.

Social Culture individual play and emotions forces play a big defining consumer buying behavior. Culture and sub culture and social class play an important role in finalizing consumer behavior. Social class consist of consumer with the same level of income education, taste, feeling of superiority and inferiority. Over time consumer can move from one social level to another.

Perception is what consumer understand about a product through their senses. Marketers have pay attention to consumer's perception about a brand rather than offering of product. Learning comes from experiences consumer may respond to stimuli and purchase a product. A favorable purchase will generate positive experience resulting in pleasant learning.

#### **CUSTOMER SATISFACTION**

Customer satisfaction is the expect to which customer are happy with the products or services provided by a business, because happy customer are those most likely to place repeat of an order and explore the range of services offered.

Consumer is most likely to report satisfaction with goods and services if they are made to feel special by the provider. In other words if the staff of an company pays attention to the individual needs of its customer before during and after the sales process they are likely to retire.

Customer satisfaction can be measured using survey techniques and questionnaires. Questions typically includes an element of emotional coupled with an element of behavioral satisfaction or locality to a particular products and services.

#### **OBJECTIVES OF THE STUDY:**

- > To study the customer perception towards RELIANCE JIO 4G Network Services.
- ➤ To understand the strength and weakness of RELIANCE JIO 4G Network Services.
- To study the reason for preferring RELIANCE JIO 4G Network Services.
- > To study the level of satisfaction of RELIANCE JIO 4G Network Services among the customers.

#### 3.METHODOLOGY OF THE STUDY:

This part presents the design of the study and the approaches adopted for field study the measurement concept and the statistical procedure employed for the analysis of the data collected.

#### 3.1 RESEARCH DESIGN

A detailed outline of general research. A research design will typically include how data is to be collected, what instruments will be employed, how the instruments will be used and the intended means for analyzing data collected.



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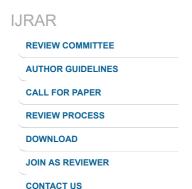
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#### MARKETING OF LIFE INSURANCES SERIVES BY LIFE INSURANCE CORPORATION OF INDIA

#### M.SUGANTHA & Dr.S.SETHURAJAN

Assistant professor & Ph.D Research Scholar, TSA Arts & Science College, Coimbatore, India. Associate professor, TSA Arts & Science College, Coimbatore, India.

Received: May 21, 2018 Accepted: July 16, 2018

**ABSTRACT** 

Insurance plays an important role in sharing the risks of people in an affordable form. It helps the people to quickly recover from damages and losses. Insurance is a defensive measure used against future conditional losses to hedge the possible risks of the future. It is a legal contract that protects a person from contingent risk of losses through financial means and provides a means for individuals and - societies to handle some of the risks faced in daily life. These contracts of insurance are called policies and are provided by insurance companies. The Insurance companies charge a regular amount from the customers, who are paid back, either in part, or entirety, to the customers in case of a definite loss. This regular amount charged from customers is called Insurance Premium.

Keywords: Insurance, risk, policies,

#### INTRODUCTION

Insurance is essentially a co-operative endeavour. Under insurance arrangement, a large number of persons agree to share the loss which a few of them are likely to incur in future. Such sharing has its own advantage. Theindividual share of the loss is relatively small. When the sharing is done amongst a large number of persons the individual share remains fairly steady from year to year. Such association of persons for sharing anticipated losses may be brought about voluntarily by all participants or may be organized by a few individuals or by insurance organisation like the Life Insurance Corporation of India. The main function of insurance in its various forms is to protect the few against the heavy financial setbacks that may befell on them by spreading the losses among many who are exposed to the risk of similar misfortune. While it is not possible to predict who amongst the many participants are likely to be the victims of misfortune, it is often possible to forecast the quantum of the loss which the group as a whole may suffer. The sharing of the resultant expected loss among all the participants ensures that the victims are compensated for the loss suffered by them. As a consequence, the heavy and uncertain loss to some is neutralized by the definite contribution of moderate amounts which every participant is required to make.

#### **OBJECTIVES OF THE STUDY**

- 1.To trace the history and growth of LIC of India.
- 2. To study the marketing strategies adopted by the LIC of India.
- 3. To analyse the perception of the policyholders towards the services of the LIC of India.
- 4. To assess the attitude of the agents towards the services of the LIC of India.

#### SIGNIFICANCE OF THE STUDY

Death is certain but the time of death of the individual is uncertain. So there is uncertainty of the time when the suffering of financial stringencies may befall the family. Moreover, every person is responsible to provide for the family. It would be a pathetic sight in the world to see the wife and children of a man looking for someone more considerate and benevolent than the husband or the father, who left then unprovided. Therefore, the provisions for children until they reach a stage when they could look after themselves should be made. Any other provision except life insurance will not adequately meet this financial requirement of the family.

Wholelife policies are the better means of meeting such requirements. The provision for old age is required. The reduction of income in old age is serious to the person and his family. Life insurance provides old age funds along with the protection of the family by issuing various policies for the economic growth of the country. Insurance provides strong hand and mind and protection against the loss of property and adequate capital to produce more wealth.

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Dr.K.Vijaya Venkateswari, Ms. P.T.Anumol

TOURISM AND EMPLOYMENT OPPORTUNITIES IN INDIA

Authors: Dr.K.Vijaya Venkateswari, Ms. P.T.Anumol

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## TOURISM AND EMPLOYMENT OPPORTUNITIES IN INDIA

<sup>1</sup>Dr. K. Vijaya Venkateswari

<sup>2</sup>Ms. P.T.Anumol

<sup>1</sup>Associate Professor

<sup>2</sup>M.Phil Scholar

Department of Commerce

Sri Ramakrishna College of Arts and Science for women, Coimbatore.

#### Abstract

Tourism is a practice of travelling somewhere for fun away from ones home. Tourism is not only a leisure and fun activity rather, it is also the industry which draws, accommodates and entertains tourists. It also helps to generate income for the country and is a continual source of income. It aids and encourages infrastructure development by making ways for dams, roads, connectivity, airport improvements and any other activities that helps tourists in visiting a place in a much better way. It is a wonderful method for cultural exchange. Tourism also plays an important role in eradicating the unemployment. It created many jobs specifically in hotel industry, hospitality industry, service sector, entertainment, transportation industry etc. which gives an opportunity for trying new tasks and learn new skills. It also increases the standard of living of people and also helps in the economic progress of the nation by generating foreign currency. This paper aims to study the employment opportunities and challenges in India tourism industry.

Keywords: GDP, National Tourism Board, Tourism Finance Corporation of India, Ministry of Tourism and Culture, Village Level Council.

#### **I INTRODUCTION**

India has gained an exponential growth in the tourism industry. Tremendous growth in Indian economy is the main reason for the growth of tourism. Travel and tourism industry in India is one of the most profitable industries and is credited with contributing a substantial amount of foreign exchange. Indian tourism industry has also helped the growth in other sectors like horticulture, handicrafts, agriculture, construction and even poultry. The ministry of tourism plays a crucial role in formulating national policies and programmes to help the government in improving the quality of tourism industry.

#### II OBJECTIVES OF THE STUDY

- To study about the employment opportunities in tourism industry in India. (i)
- (ii) To comprehend about types of tourism.
- To analyse the challenges in tourism industry in India. (iii)

#### III METHODOLOGY OF STUDY

This study is a descriptive research and is based on secondary data. It includes the compilation of research articles of the experts and published articles in magazines, periodicals, websites, published books etc.

#### IV TOURISM AND EMPLOYMENT OPPORTUNITIES

The employment opportunities in tourism can be created mainly in two ways. They are:

1. Direct employment opportunities: Direct employment opportunities are the total number of job opportunities supported directly by the travel and tourism. Eg: employment provided by hotels, restaurants, travel agencies, tourism information offices, museums, protected areas such as national parks, palaces, religious sites, aircrafts, monuments, resorts or shopping outlets, photography, farm houses, etc. There are a large number of specialist personnel required to work as accountants, housekeepers, waiters, cooks and entertainers, who in turn need large number of semi skilled workers such as porters, chambermaids, kitchen staff, gardeners etc.



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## Secured and Freshness Ensured Provenance Sharing Scheme for the Heterogeneous Wireless Sensor Network

#### **Abstract**

Provenance sharing has an important role to play in guaranteeing the trust in the network environment thathas to be shared in a secured manner. In theearlierresearches, it is guaranteeing by the introduction of the Clustering Based Centralized Provenance Forgery Detection System (CBC-PFDS). But, theseresearch works do not take the data integrity and novelty into consideration that has gained focus in this research approach for achieving a secured and robust sharing of provenance amongst the sensor nodes with only limited resources available. In the newly introduced technique, Secured and Freshness Ensured Provenance Sharing Scheme (SFEPSS) is proposed with the objective of attaining a secured provenance sharing. In this, for the validation of the data integrity and novelty of provenance, this technique makes use of hybridized AES and SHA-2 that can help in secure transfer of the data. The security is improved by the Dynamic Key Generation that can lead to improving the hacking complexity. Dynamic key generation is carried out at the centralized server that is chosen from cluster heads where the fitness is computed employing the weighted decision making algorithm that depends on Pareto optimality. The Modified firefly algorithm is proposed for the cluster head election. Pareto optimality isintegrated with firefly algorithm for improving the performance rather than moving in random direction. Fitness functions, which are taken into account for choosing the centralized server include path connectivity, Energy, Centrality. This centralized dynamic key generation facilitates re-usage of keys. The overall

implementation of the newly introduced research approach is performed in the NS2 simulation environment, which can help in ensuring that the proposed research approach improves the optimal results in terms of enhanced level of security.

Paper Details

**PaperID:** 181046

Author's Name: D. Sowmyadevi and Dr.K. Karthikeyan

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Keywords: Provenance Sharing, Security Level, Energy Consumption, Weighted Decision Making Algorithm, Fitness

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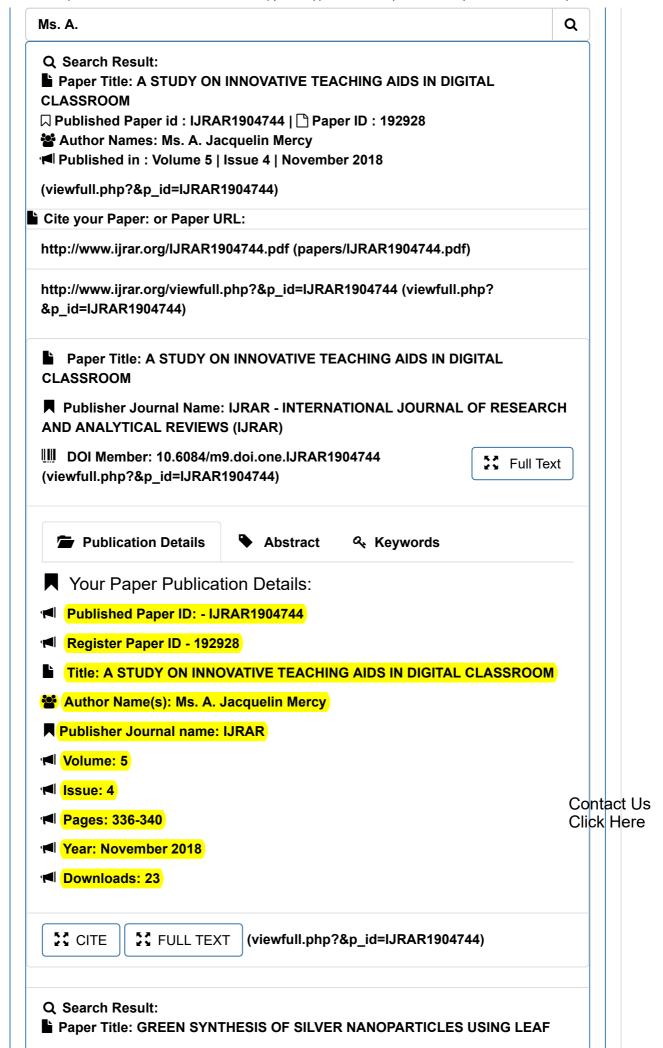
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## A STUDY ON INNOVATIVE TEACHING AIDS IN DIGITAL CLASSROOM

A. Jacquelin Mercy

Assistant Professor

Department of Commerce

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Abstract: The students always face problems in mainstream educational system. Teachers need to be proactive and creative in preparing their teaching plans, metholodgies, and materials inorder to ensure that the learning process is going to be effective to the students. The teacher integrate the use of ICT such as the social mail, social media applications, and online learning portals as platforms to effectively teach the students. In comparsion to the conventional way of teaching, this technique creates a borderless classroom which enables the students to freely explore knowledge without limit or boundary.

Keywords: Teaching and learning, Information and Communication Technology (ICT).

#### Introduction

During the XX century the classroom and its formal learning space have experienced few changes regarding configuration, traditional structure, methodologies and semantic arrangement, but in the meantime, everything else has changed: students, teachers, curriculum, resources available to both students and teachers, and the social context where colleges exist. Recently there have been remarkable social and economic efforts in the deployment of educational policies for the integration of ICT, such as 1x1 projects, which have involved a considerable investment by governments in a good deal of countries, e.g. Educat 2.0, One laptop per child, Plan Ceibal, Enlaces, etc.

#### **Objectives**

- To study about the demographic profile of the respondents.
- To study about the Student's opinion towards the use of ICT.
- To know about the methodology of teaching ICT in classes.

#### **Review of Literature**

Zakaria, Watson & Edwards (2010)¹conducted their research on the use of Web 2.0 technology by Malaysian students. The general opinion gathered about the integration of Web 2.0 tools into learning was positive. Result showed that students preferred using e-mail to disseminate and share digital contents. Similarly it was also found that for finding information related to education, students prefer to use search engines instead of asking friends or teachers.

Maharana, Biswal and Sahu (2009)<sup>2</sup> explored the use of information and communication technology used by medical students. They found 77% of the respondents were of the opinion that ICT should be included in their syllabus. Nearly all respondents expressed their desire to have a computer lab in

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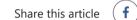
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## Service Marketing with Reference to Hotel Industry in India

#### K. Parveen Banu

Assistant Professor, Department of Commerce, Sri Ramakrishna College of Arts & Science for Women, Sarojini Naidu Road, Siddhapudhur, Coimbatore-641044, India

Abstract: Hotel industry in India is one of the fastest growing service sectors of the country. Today the hotels are classified according to their service rendered to the customers. After globalization hotel industry is striving to provide their service at low cost to different customers with the most progressive gaining an edge over the competition. Many revolution have been made with advancement of technology changed the face of industry, making effortless for everyone to book a memorable vacation or dine with few simple steps with the help of mobile apps. Not only this hospitality sector is witnessing a healthy growth and accounts for 7.5 per cent of the country's GDP. So the government has to take more initiatives to improve this sector to create world renowned hotels by providing incentives and guidance. Today many world class hotels were emerged in India but at world level we are still in seventh place and through the service of this sector it has to be upgraded in positive manner.

Keywords: Hospitality, Technology, Globalization, Hotels, Service.

#### 1. Introduction

A service is the action of doing something for someone or something. It is largely intangible You cannot touch it. You cannot see it. You cannot taste it. You cannot hear it. You cannot feel it. So a service context creates its own series of challenges for the marketing manager since he or she must communicate the benefits of a service by drawing parallels with imagery and ideas that are more tangible. Search quality is the perception in the mind of the consumer of the quality of the product prior to purchase through making a series of searches. So this is simple in relation to a tangible product because they might look at size or colour. So search quality is more important to product or services. Experience quality is easier to assess. In terms of service the need to taste the food or experience the service level. Therefore the experiences allow to evaluate the level and nature of the service. Credence quality is based upon the credibility of the service that they undertake. Credence is used where little knowledge of the topic and to rely upon the professionalism of the expert.

#### Foundation of Hotel Industry in India

Hotels & the Catering Industry as we know started in the 19th century with the development of major cities, easier sea travel & coming up of railways. In India, resting houses called serais/sarais and dharamshallas were established on high ways by kings and emperors of ancient and medieval periods. In India, development of catering can also be attributed also to the legacy left by people belonging to different cultures and ethnic groups who have ruled her.In 1971-72, a beautiful palace of Rajasthan was linked up to the Taj, the lake palace in Udaipur, a marble dream, afloat lake pichola and the Rambagh palace, originally created at the height of Rajput splendour in Jaipur. In 1903 he raised finance invested his own money, hired the best architects and craftsmen and build the exquisitely beautiful Taj Mahal hotel in Bombay with 220 rooms.

Before the introduction of a mobile catering system, food was packed from homes and sent with the traveller.

September 27th, 1999. It was a great day. It was the day the IRCTC was formed. Having food provided during journeys not only lightens the passenger's weight load but also allows them to buy food on the train, ensuring them their pre travel convenience. Prior to independence Spencer's was the major player for railway catering in India. For the Indian hotel owners and the international hotel chains the benefit is mutual, tie-up with an international hotel chain puts the hotel on the global map with access to chain's reservation network worldwide.

#### **Impact of Golablization in Hotel Industry**

The globalization of trade and the economy has had a direct impact on the price. A larger pool of competition has led to more competitive pricing, and given rise to the low-cost carrier model within aviation and more people fly around the world for a reasonable price. This has made it easier for travellers to experience new cultures, and has made it increasingly important for professionals in hospitality to understand, and cater to, different people. If the industry wants to attract the more people, the organizations must work hard to keep up with advancing technology. It is important for hotels, tourist attractions, and restaurants to continually improve their products and services – with the most progressive gaining an edge over the competition. Even something like a hotel room key has been revolutionized through technological advancement, with its next stage of evolution looking to transform it into data utilized on a guests' cell phone.

#### **Marketing Strategies Used in Hotel Industry**

In this ever-changing world, the hospitality business is in constant evolution. So, for professionals in the hotel marketing industry – staying up-to-date is a must. Here are some of the best strategies followed by hotel industry

Most travellers today trust online reviews. Potential guests can easily search for them online and that's why it's essential to keep your hotel's guests absolutely satisfied. Make sure every detail is taken care of. The whole organization acts as customer service department and do

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Paper ID: ART20192405 DOI: 10.21275/ART20192405 329



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# A Study of Non-Performing Assets of Udhagamandalam Co-operative Urban Bank Ltd.

<sup>1</sup>Dr. K. Vijaya Venkateswari, <sup>2</sup>Ms. S. Vidhya

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Abstract: Banks play an important role in the provision of financial services to the public and contribute tremendously to economic development of a country. Though they are growth drivers, the banking business is exposed to various risk, such as credit risk, liquidity risk, interest risk, market risk, operational risk and management risk. Apart from these risks the very important risk of banks is loan recovery. The sound financial position of a bank depends upon the recovery of loans or its level of Non-Performing assets (NPAs). Reduced NPAs generally gives the impression that banks have strengthened their credit appraisal processes over the years and growth in NPAs involves the necessity of provisions, which bring down the overall profitability of banks. The Indian banking sector is facing a serious problem of NPA. The magnitude of NPA is comparatively higher in public sectors banks compared to private sector banks. This paper intends to study the NPAs of Udhagamandalam Co-operative Urban Bank Ltd.

Keywords: NPA, Banking Sector, Credit risk, Doubtful assets.

#### INTRODUCTION

With the introduction of financial sector reforms 1991 the faces of Indian Banking sector have extremely changed. It plays an important role in the economic development of India. The problems arising in the banking sector will affect the Indian economy. The banking industry has moved step by step from a synchronized environment to a decontrolled market based economy. In 1991-1992 India adopted the open economy. Because of liberalization and globalization in market development there has been tremendous change in the transitional role of banks in India. The problem of swelling non-performing asset is catching attention and has assumed great importance in terms of risk management. The incidence of non-performing assets (NPAs) is affecting the performance of the credit institutions financially. NPA broadly defined as non-repayment of interest and instalment of principle amount (Das & Ghosh, 2006).NPA is a disorder resulting in non-performance of a portion of loan portfolio leading to no recovery or less recovery income to the lender. NPAs represent the quantify "Credit Risk". Bankers have realized to have effective NPA management on their priority list. According to the "Narasimham Committee Report (1991), those assets (overdraft/ cash credit) for which the interest remains due for a period of four quarters (180 days) should be considered as NPAs". After, this period had reduced and from March 1995 onwards assets for which interest and principle remains unpaid for a period of 90 days were considered as NPAs. Thus, NPA constitutes an important factor in the banking system as it seriously affects the profitability of the banks. The NPA can broadly be classified into Gross NPA and Net NPA. Gross NPA reflects the quality of the loans made by banks whereas Net NPA shows the actual burden of banks.

#### **OBJECTIVES OF THE STUDY**

- To understand the concept of non- performing assets.
- To study the NPAs of Udhagamandalam Co-operative Urban Bank Ltd.
- To suggest the mechanism for recovery of NPAs through various channels.

#### RESEARCH DESIGN

This study is descriptive and analytical one and based on secondary data pertaining to the period 2012-2017. The sources of data for this research include the reports published by Udhagamandalam Co-Operative Urban Bank Ltd., books and research papers published in Journals.

#### DATA ANALYSIS AND RESULTS

**Ratio Analysis:** Ratio Analysis is a form of Financial Statement Analysis used to obtain a quick indication of a firm's financial performance in several key areas. For the purpose of studying the NPAs of the bank ratio analysis has been made. Following are the results of ratio analysis.

A. Net NPA Ratio

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# A STUDY ON TECHNICAL ANALYSIS WITH REFERENCE TO INTERNATIONAL FOREX

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#### **ABSTRACT**

The Foreign Exchange Market (Forex, FX, or currency market) is a global decentralized market for the trading of currencies. The Foreign Exchange Market assists international trade and investments by enabling currency conversion. This study is to test the technical tools to analyze about the technical impact and its return in the market. For this purpose 15 cross currency pairs were taken as sample size and Jensen's Alpha, Beta, Relative Strength Index, and Buy and Hold Abnormal Return were used as technical tool for analysis. From the study it was concluded that it's not preferred to invest in JPY pairs as the volatility and the return are not up to the mark and its preferred to invest in EURCAD as the return was high when compared to other scripts and the market was moving accordingly to its cross currency pair.

**Keywords: Technical analysis, Currency pairs and International forex** 

#### INTRODUCTION

Forex, short for the Global Foreign Exchange Market, is the largest single financial market in the world. JobMonkey includes a section on this topic because Forex trading can be done just about anywhere there's an Internet connection. Many traders are able to earn extra money over and above what their 'real job' provides - working from home. Also called the Currency Exchange, the FOREX is the financial field where currencies from different nations are exchanged for that of another (with the equivalent of over 4 trillion dollars changing hands daily, according to FX Street). The Forex is not a physical market like the AMEX (American Stock Exchange) or the NYMEX (New York Mercantile Exchange), but more of a global network of interconnected



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### MSMEs OF TAMILNADU: THE JOURNEY FAR & BEYOND

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Received: August 29, 2018 Accepted: October 14, 2018

**ABSTRACT** Globally, Micro Small and Medium Enterprises (MSMEs) play a vital role in the economic development of a nation. MSMEs are the nursery where small existing businesses have the potential to become world beaters tomorrow.Micro, Small and Medium Enterprises (MSME) sector has emerged as a highly vibrant and dynamic sector of the Indian economy over the last five decades. MSMEs not only play crucial role in providing large employment opportunities at comparatively lower capital cost than large industries but also help in industrialization of rural & backward areas, thereby, reducing regional imbalances, assuring more equitable distribution of national income and wealth. MSMEs are complementary to large industries as ancillary units and this sector contributes enormously to the socio-economic development of the country.

#### Keywords:

#### INTRODUCTION

MSME- is the pillar of economic growth in many developed and developing countries in the world. Often rightly termed as "the engine of growth" for India. The MSME Sector has emerged as a vibrant and dynamic sector producing a vast range of products starting from basic agro products to high precision engineering tools and equipment.MSMEs generate large scale employment. In India, capital is scarce and labor abundant.MSMEs are thought to have lower capital-output and capital-labour ratios than large-scale industries, and therefore, better serve growth and employment objectives.

MSME Promote growth and development of khadi, village and coir industries so as to create new enterprises and more employment opportunities. The long term goal of the ministry is to enhance manufacturing base in the country by improving performance of MSMEs through skill and entrepreneurship development.

The estimated contribution of MSME manufacturing sector to GDP, during 2012-13, is 7.04%. However, taking into account the contribution of MSME services sector, which is estimated at 30.50% during 2012-13, the share of MSME sector in GDP of the country, during 2012-13, is 37.54%. The contribution of MSME to other sectors has been immensely instrumental. It is the biggest employer after agriculture sector, despite the fact that agriculture sector's contribution to GDP is less than MSME. While it contributes about 45% to manufacturing sector, and perhaps 40% to Exports, it forms the highest share of Employment sector in India, contributing around 69% to it.

#### MSME Definition in India:

In accordance with the provision of Micro, Small & Medium Enterprises Development (MSMED) Act, 2006 the Micro, Small and Medium Enterprises (MSME) are classified in two Classes:

#### MANUFACTURING SECTOR:

Enterprises	Investment in plant & machinery	
Micro Enterprises	Does not exceed twenty five lakh rupees	
Small Enterprises	More than twenty five lakh rupees but does not exceed five crore rupees	
Medium Enterprises	More than five crore rupees but does not exceed ten crore rupees	

#### **SERVICE SECTOR:**

Enterprises	Interprises Investment in equipment	
Micro Enterprises	Does not exceed ten lakh rupees	
Small Enterprises	More than ten lakh rupees but does not exceed two crore rupees	
Medium Enterprises	More than two crore rupees but does not exceed five crore rupees	

#### **MSMEs IN TAMILNADU:**

Tamil Nadu has been ranked on top in attracting investment proposals filed by the micro, small and medium enterprises industry body Assocham has said.



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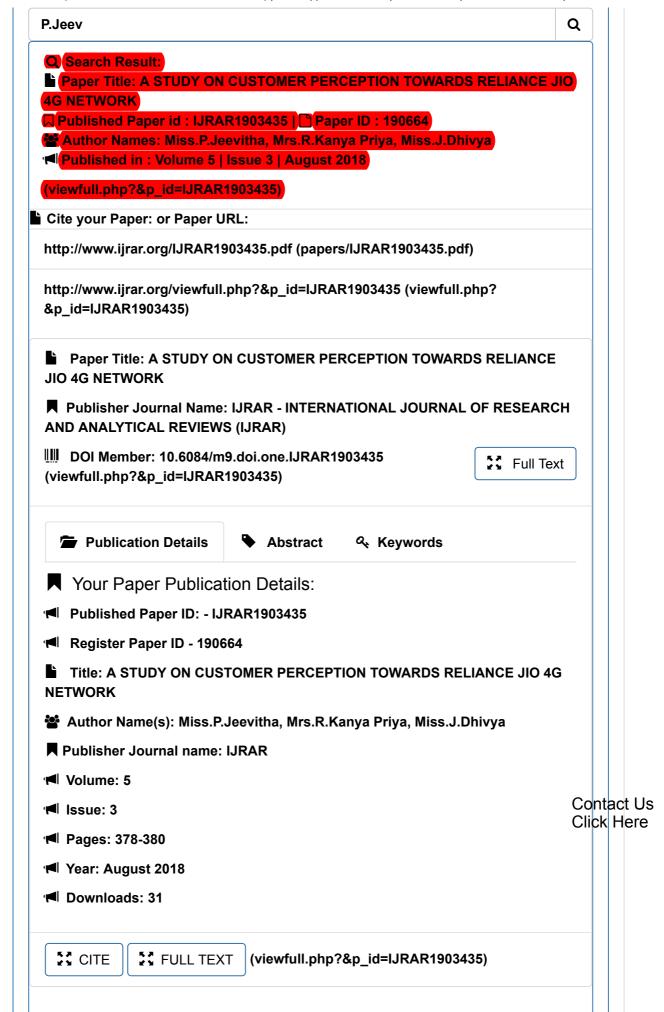
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# A STUDY ON CUSTOMER PERCEPTION TOWARDS RELIANCE JIO 4G NETWORK

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Abstract: In this context, the study attempts to examine the extent of customer perception towards Reliance Jio 4G Network. The survey was administered among 200 respondents who uses Reliance Jio 4G network. Each of the survey responses was entered and analyzed using chi-square test.

*IndexTerms:* Reliance 4G network, Customer perception, customer satisfaction.

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#### I. INTRODUCTION

The Present business scenario is totally customer oriented. Each company faces stiff competition from its competitors, each provides the best services at competitive rates. As a result customer has lot of choices to get the best with least cost. To face this competition, it is very necessity to have a marketing strategy to create, communicate and deliver and exchange the products and services to the customers, clients, partners, and society at large.

The core function of the marketing department is to understand satisfy consumer need and desire. Consumer behavior captures all the aspects of purchase, utility and disposal of product and services. In group and organization are considered within a frame of consumer. Failing to understand to consumer behavior is the recipe for the disaster as some company as found it the hard way.

Social Culture individual play and emotions forces play a big defining consumer buying behavior. Culture and sub culture and social class play an important role in finalizing consumer behavior. Social class consist of consumer with the same level of income education, taste, feeling of superiority and inferiority. Over time consumer can move from one social level to another.

Perception is what consumer understand about a product through their senses. Marketers have pay attention to consumer's perception about a brand rather than offering of product. Learning comes from experiences consumer may respond to stimuli and purchase a product. A favorable purchase will generate positive experience resulting in pleasant learning.

#### **CUSTOMER SATISFACTION**

Customer satisfaction is the expect to which customer are happy with the products or services provided by a business, because happy customer are those most likely to place repeat of an order and explore the range of services offered.

Consumer is most likely to report satisfaction with goods and services if they are made to feel special by the provider. In other words if the staff of an company pays attention to the individual needs of its customer before during and after the sales process they are likely to retire.

Customer satisfaction can be measured using survey techniques and questionnaires. Questions typically includes an element of emotional coupled with an element of behavioral satisfaction or locality to a particular products and services.

#### **OBJECTIVES OF THE STUDY:**

- > To study the customer perception towards RELIANCE JIO 4G Network Services.
- ➤ To understand the strength and weakness of RELIANCE JIO 4G Network Services.
- To study the reason for preferring RELIANCE JIO 4G Network Services.
- > To study the level of satisfaction of RELIANCE JIO 4G Network Services among the customers.

#### 3.METHODOLOGY OF THE STUDY:

This part presents the design of the study and the approaches adopted for field study the measurement concept and the statistical procedure employed for the analysis of the data collected.

#### 3.1 RESEARCH DESIGN

A detailed outline of general research. A research design will typically include how data is to be collected, what instruments will be employed, how the instruments will be used and the intended means for analyzing data collected.

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## Existence and stability results for second order neutral stochastic Partial Functional differential equations driven by a fractional Brownian motion

## P.Selvanayaki <sup>1</sup> and Dr.C.Loganathan<sup>2</sup>

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**Abstract:** In this article, we study the existence and stability results for second order neutral stochastic functional differential equations driven by fractional Brownian motion. Our method of investigating the stability of solutions is based on successive approximation approach and Lipschitz conditions being imposed. **Keywords:** Second – order system, non Lipschitzian conditions, fractional Brownian motion, mild solution.

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Date of Submission: 20-10-2018 Date of acceptance: 04-11-2018

#### I. Introduction

The neutral stochastic differential equations can play an important role in describing many sophisticated dynamical systems in physical, biological, medical, chemical engineering, aero elasticity and social sciences [4],[13],[14],[15] and[22]. More over many dynamical systems not only depend on present and past states but also involve derivatives with delays. Deterministic neutral functional differential equations, which was originally introduced by Hale and Lunel [9] are of great interest in theoretical and practical applications. Moreover, one of the simplest stochastic processes that is Gaussian, self – similar, and has stationary increments is FBm [2]. In particular, FBm is a generalization of the classical Brownian motion, which depends on a parameter  $H \in (0,1)$  called the Hurst index [8]. It should be mentioned that when H = 1/2, the stochastic process is a standard Brownian motion; when  $H \neq 1/2$ , it behaves completely in a different way than the standard Brownian motion, In particular neither is a semi martingale nor a Markov process. It is a self-similar process with stationary increments and has a long- memory when  $H \neq 1/2$ . These significant properties make FBm a natural candidate as a model for noise in a wide variety of physical phenomena such as telecommunications networks, finance markets, biology and so on [10].

The existence and uniqueness of mild solutions for a class of stochastic differential equations in a Hilbert space with a standard, cylindrical FBm with the Hurst parameter in the interval (1/2,1) has been studied [6]. Dung studied the existence and uniqueness of impulsive stochastic volterraintegro-differential equations driven by FBm in [7]. LI [17] investigated the existence of mild solution to a class of stochastic delay fractional evolution equations driven by FBm. Caraballo et al[5], and Boufousssi and Hajji [3] have discussed the existence, uniqueness and exponential asymptotic behaviour of mild solutions by using the wiener integral.

Even though there are many valuable results about neutral stochastic partial differential equations, they are mainly concerned with first order case. In many cases it is advantageous to treat the second order stochastic differential equations rather than to convert them to first-order systems. The second –order stochastic differential equations are the right model in continuous time to account for integrated processes than can be made stationary. For instance, it is useful for engineers to model mechanical vibrations or charge on a capacitor or condenser subjected to white noise excitation through a second- order evolution equation governed by the generator of a strongly continuous cosine family was proposed in [8,22] Ren and sakthivel [19] investigated the existence, uniqueness and stability of second order neutral stochastic evolution equations with infinite delay, Liang and Guo [16] probed the behaviour for second-order stochastic evolution equations with memory; Arthi et al [1] discussed the exponential stability for second-order neutral stochastic differential equations with impulses . Inspired by this consideration, in this paper we consider the second – order neutral stochastic functional differential equation driven by FBm with hurst parameter 1/2< h <1.

$$\begin{split} d\left[x'(t)-g\left(t,x(t-r(t))\right)\right] \\ &=\left[Ax(t)+f\left(t,x(t-\rho(t))\right)\right]dt+h\left(t,x(t-\delta(t))\right)dw(t)+\sigma(t)dB_Q^H(t), \quad t\geq 0, \\ x_0(t)&=\phi(t)\theta\in BC_{F_0}^b[-r,0\,;H], \end{split}$$

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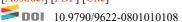
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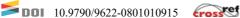




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C.Loganathan, P.Selvanayaki

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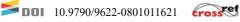




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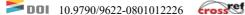




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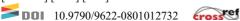
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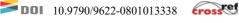




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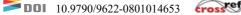
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#### RESEARCH ARTICLE

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# **Existence and Uniqueness of the solutions to Stochastic Neutral Functional Differential Equations Using Fractional Brownian motion with Non-Lipschitz Coefficients**

## C.Loganathan<sup>1</sup> and P.Selvanayaki<sup>2</sup>

<sup>1</sup>Department of Mathematics, Maharaja Arts and Science College, Coimbatore – 641407, Tamilnadu, India, <sup>2</sup>Department of Mathematics, Sri Ramakrishna Arts and Science College for Women, Coimbatore – 641044, Tamilnadu, India,

**ABSTRACT:** In this paper we investigate the existence and uniqueness of mild solutions to neutral stochastic functional differential equations driven by a Brownian motion in a Hilbert space with non-Lipschitzian coefficients. The results are obtained by using the method of successive approximation and generalize the results that were reported by Bao and Hou[1].

**Keywords:** Stochastic neutral functional differential equation, mild solution, Fractional Brownian motion, Non-Lipschitz coefficients.

AMS Subject Classification: 60H05, 60H07.

#### I. INTRODUCTION

The study of existence, uniqueness and stability of mild solutions of stochastic neutral functional differential equations (SNFDEs) due to their range of applications in various sciences such as physics, mechanical engineering, control theory and economics where in, quite often the future state of such systems depends not only on the present state but also on its past history leading to SNFDEs rather than SDEs. Mao [11] discussed this kind SNFDEs is the following neutral SFDEs with finite delay which could be used in chemical engineering and aero elasticity introduce in kolmanovskil and myshkis [9]. Under the global Lipschitz and linear growth condition Taniguchi [21] and Luo [10] considered the existence and Uniqueness of mild solutions to SPFDEs. The theory of stochastic differential equations driven by a fractional Brownian motion (FBM) has been studied intensively in recent years [3, 5, 8, 14, 15]. Senguttuvan et al., studied the existence of stochastic Partial differential equations with neutral and delay conditions [17, 18, 19, 20]. In [7] Farrante and Rovira studied the Stochastic delay differential equations driven by fractional Brownian motion with Hurst parameter H > 1/2. Consider the stochastic Partial differential equations (SPDEs) driven by a fractional Brownian motion (FBM). SPDEs arise in many areas of applied mathematics. For this reason, the study of this type of equations has been receiving increased attention in the last few years. An existence and uniqueness result of mild solutions for a class of neutral stochastic differential equation with finite delay, driven by an FBM in a Hilbert space has been investigated [2] in Boufoussi and Hajji. The asymptotic behaviour of solutions for stochastic

differential equations with FBM has been investigated by authors [2, 4, 6]. More over Nguyen [12] has studied the asymptotic behaviours of mild solutions to neutral stochastic differential equations driven by an FBM.

Motivated by the above papers, in this work we aim to extend the existence and Uniqueness of mild solution to cover a class of more general SNFDs described in the form

 $D\big[[X(t)]+G(t,X_t)\big]=\big[AX(t)+\\Ft,Xtdt+\sigma tdBHt,\ 0\leq t\leq T,\\ \text{with the initial condition }X(t)=\xi(t),\ t\in[-\tau.0] \text{ and }X_t=\big[X(t+\theta):-\tau\leq\theta\leq 0\big]\\ \text{where A is the infinitesimal generator of an analytic semi group of bounded linear operators,} <math display="block">\big(S(t)\big)_{t\geq 0,} \quad \text{in a Hilbert space }X,\ B^H\ is\ a\ Q-\text{fractional Brownian motion real and separable}\\ \text{Hilbert space }Y,\ r,\rho:[0,T]\to[0,\tau](\tau>0) \text{ are continuous, }F,G:[0,T]\times X\to X,\ \sigma:[0,T]\to L_2^0(Y,X) \text{ are appropriate function and }\xi\in C\left([-\tau,0];\ L^2(\Omega,X)\right). \text{ Here }L_2^0(Y,X) \text{ denotes the space of all }Q\text{- Hilbert- Schmidt operators from }Y \text{ into }X.$ 

Unfortunately, for many practical situations, the nonlinear terms do not obey the global Lipschitz and linear growth condition, even the local Lipschitz condition. Motivated by the above papers, in this paper, we aim to extend the existence and uniqueness of mild solutions to cover a class of more general neutral stochastic functional differential equations driven by fractional Brownian motion with Hurst parameter½

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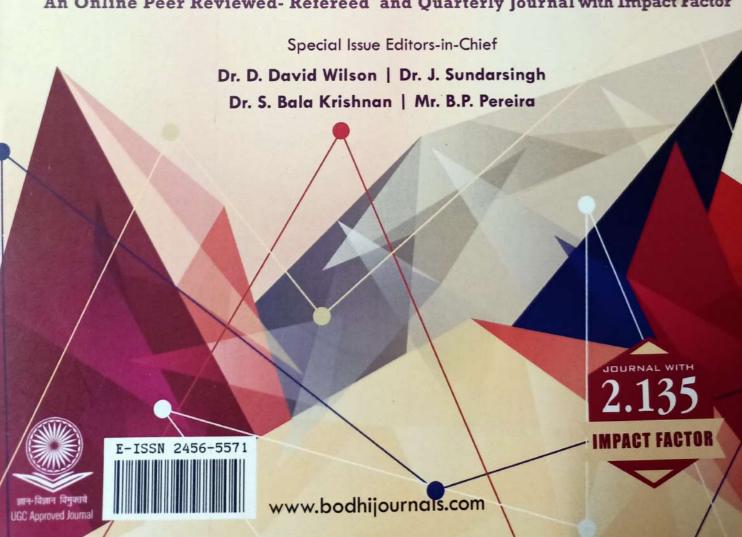
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# E-LEARNING TECHNOLOGIES TO IMPROVE EDUCATIONAL QUALITY OF LANGUAGE TEACHING

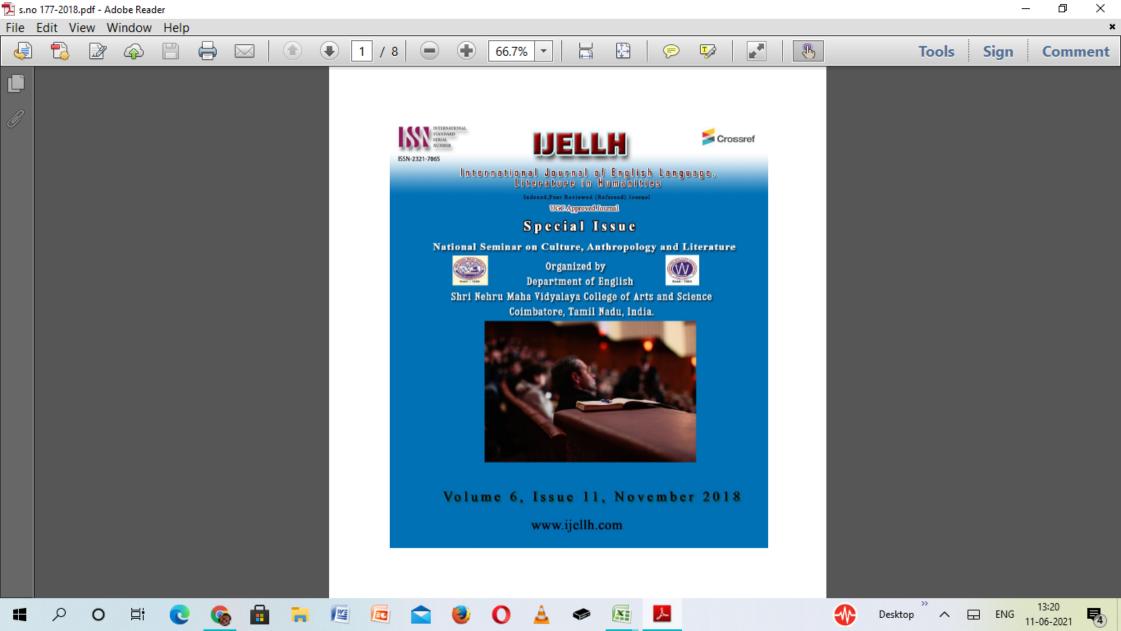
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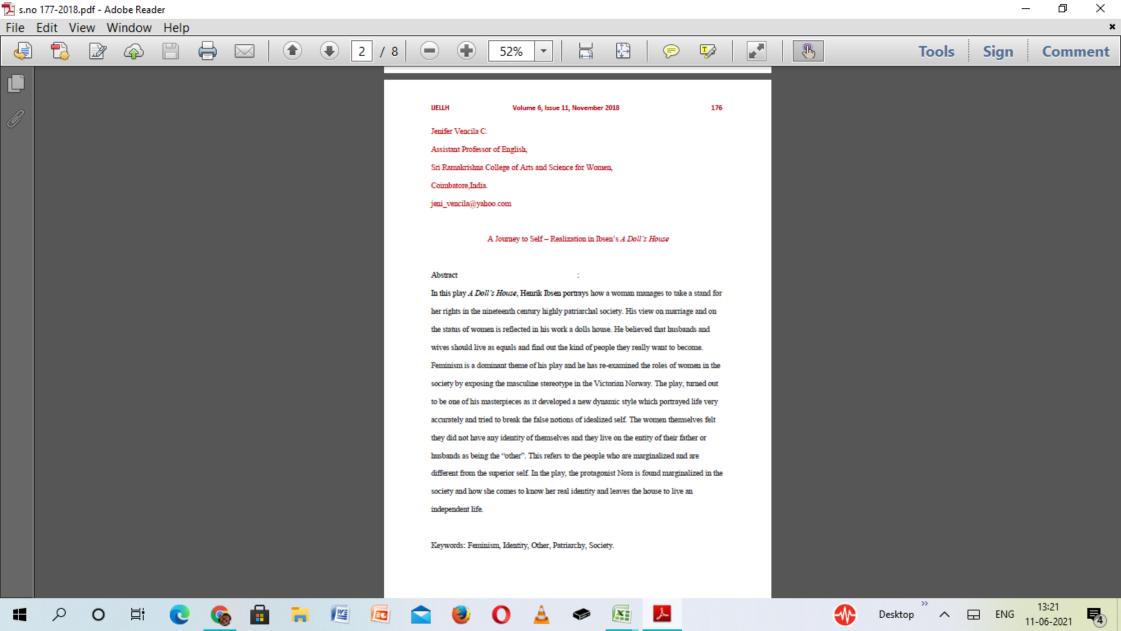
Associate Professor and Head, Department of English Sri Ramakrishna College of Arts and Science for Women, Coimbatore

While distance education is growing more and more popular by the year in a variety of fields, eLearning a foreign language is still, foreign, in many ways, especially when it comes to research, data, and teaching methodology. Online second language courses differ radically from other subjects in which students interact and communicate in their own language in order to learn new material. E-Learning is an education innovation that has transformed the use of traditional way of learning to the use of modern technology such as video, computer, CD ROM, internet, intranet, satellite, etc. to deliver content of learning through electronic equipment in various learning environment ranging from learning with the teacher in the classroom using computer, web-based learning and distant learning.

Language teaching in general and English Language Teaching (ELT) in particular has tremendously changed over the centuries. When English entered in the curriculum of the students as a compulsory subject, it was a challenge for the English language teachers to teach to the foreign learners but they taught English as a 'Know-ledge' subject not as a 'Skill' subject because their main aim was to teach them to pass the examinations only. So they adopted 'Grammar-Translation Method' in which the teacher used to explain every word to students in the native language to make them understand and learn English. Despite the fact that this method ignores the development of oral proficiency of the learners, it is still popular with majority teachers in the modified form. So many other methods were also used such as bilingual method, direct method, audio-lingual method, the structural approach and the

situational teaching, communicative language teaching etc. but no method was said to b perfect method. Since then ELT seems to swinging like a pendulum between extremes of method as language teachers by ever been in search of better and more effect method of teaching. Moreover, the ELT ten that were very popular in the past he vanished today and have been substituted innovative ELT methods. Present Trends Teaching English The 21st century confronts citizenship with new choices, opportunities challenges due to the all-pervading technology into all spheres of life. In this era, to educational institutions cannot remain me venues for the transmission of a prescribed of information from teacher to student over fixed period of time rather the education institutions must promote "learning to learn i.e. the acquisition of knowledge and skills make possible continuous learning over the lifetime. So it becomes the responsibility of the teachers to shape up accordingly to meet be demands of the day. The need of the day is equip people with proficiency in the English language and this is possible only with a professional blend of edification and e-learning (modern technologies). Traditional teaching learning paradigms have been shaken by impact of the integration of e-learning tools it educational practices. E-learning is a different range of technological tools and systems to can be utilized by capable and creative teach to enhance teaching and learning situation used to make learning stimulating These are meaningful to the students. These tool motivating, been touted as potentially powerful en





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# WOMEN IN MANJULA PADMANABHAN'S LIGHT'S OUT

Dr. G. Subramanian, L. Jeevitha

Assistant Professor, Assistant Professor Government Arts College, Coimbatore, Tamil Nadu, India.

The paper entitled "Women in Manjula Padmanabhan's Light's Out" aims to explore the playwright's projection of women in her plays. For this purpose three aspects are chosen for the study of image of woman in Manjula's plays, the traditional woman, the rebellious woman and the new woman, who adopt their situations and act according. In Padmanabhan's plays, we see a steady change in the female character. In other words, the character does not remain the same as she appears in the beginning. Padmanabhan's women are not extraordinary women. She does not portray them as good or evil characters, they have their strengths and weaknesses, and they have their good days and bad days. They are persistently trying to prove themselves in a man's world. Padmanabhan's image of women can be described in the words of C.K. Meena as she as mentioned in Unmasking the Middle Class that men he has drawn his women with great sympathy, but they are by no means saintly victims. Padmanabhan reveals the image of the transformed female, who is led from passive observance to tradition to its active rejection in order to become a woman thinking.

Index Terms: Rebellious, Extraordinary women, Persistent, Observance.

Indian Writing in English has a recent history of one and half century old. The term Indian Writing in English is used in a wider sense; inspite of its difference in cultures, customs, races and religions. Indian Writing in English has successfully captured and reflected the multi- cultural and multilingual society. It expresses about the shared tradition, cultural exercises and Indian heritage. In *Indian Writing in English*, M. K. Naik, states that Indian Writing in English began as an interesting by - product of lively encounter in the late eighteenth century between a vigorous and enterprising Britain and a stagnant and chaotic India. Consequently, a large number of Indians were greatly moved by the genuine desire to present an accurate picture of India through their writings.

Drama is a very influential and more powerful medium in the English literature because of its audio visual means of expression. Shukla Supriya, in *Indian English Drama: An Introduction*, comments that drama is a counterfeit representation of life combining in itself the real and the fictional, art and reality and representing the events and characters within the given dimension of space and time. It combines the elements of narrative poetry with those of visual arts. In short, it is a narrative made visible. The origin of Indian drama is outlined from the Vedic Period and is considered as one of most popular medium in India. As an indication of our nation's sensibility Indian drama came into existence by means of imparting the truth about popularly known "Fifth Veda."

Women writers have also played an important role in the development of Indian writing in English. Dr. M. F. Patel writes in *Studies in Indian women Writers in English*:

Women writers in India are moving forward with their strong and sure strides, matching the pace of the world. The focal point of the women writers is largely the prevailing conditions and the problems of women. They aim at bringing out the plight of women in the present time. (93)

It was in the 1940s and 50s that some names of women playwrights came to spotlight but it was not until the last three decades of the twentieth century that the plays by women became a dominant strain in the literary and cultural life of the nation.

Manjula Padmanabhan, in her plays, gives importance to female characters rather than the male ones. Her plays are mostly woman centric. They deal with the lives of women, their status in society as well as family and their mind set. Her plays expose the piteous condition of women in every state of society.

Manjula Padmanabhan was born in Delhi in 1953; she went to a boarding school in her teenage years. After passing out from Bombay University, with her courage and self-confidence made her own way in life. In her later years, she made her place as a playwright, a cartoonist, journalist, novelist and a children's book author. Apart from writing newspaper columns she also created comic strips such as Suki, an Indian female comic character. In the year 1997, she won the Greek Onassis Award for her play Harvest. Apart from this, she has written various other important works like *Lights Out!* (1984), *Hidden Fires, The Artist's Model* (1995), and *Sextet*. She has also authored a collection of short stories, called *Kleptomania*. Her most recent book, published in 2008, is *Escape*. Her works focuses on social issues also but mainly where the patriarchal society suppresses women and her acts. She mainly affirms the realistic images connected with their point of view. Her works include concerns related to women, alienation, rapes, dowry deaths, domestic violence etc. in the patriarchal discourse.

The paper attempts to explore about the women and about how characters make their survival in the play *Light's Out* by Manjula Padmanabhan. And the dramatists portrays the clear impression on gender inequality and a dominant appeal for realizing the women emotions in a world where she hardly finds herself to be free, independent, resistant and well thought out.

In the context of Indian culture the statues of women has been a paradox. Women, worshiped as goddess and exalted as mother is in most practical aspects of life, overworked and undervalued, systematically subordinated. They had four fold status-role sequences. Those were her role as a daughter, wife, mother and housewife. The woman, whose status and role traditionally was well defined and almost fixed in the society, is now experiencing far-reaching changes. The woman in modern times is entering into certain new fields that were unknown to the woman's sphere of role-sets. They are actively participating in social, economic, and political activities. But in the present scenario, women have generally received higher education than the women of their preceding generation. There have been far reaching consequences in the economic status of women. The early years of the 20th century witnessed a rapid growth in breaking down

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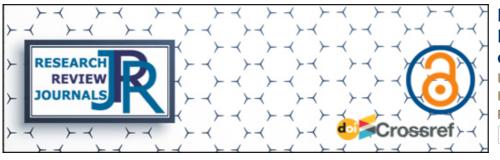
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### Understanding the Talent Management Practices by Employees of Banking Sector

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#### ARTICLE DETAILS

#### Article History

Published Online: 10 December 2018

Keywords Banking sector, Contributing factors, Challenges, Strategies on talent management.

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#### ABSTRACT

Banking and Finance offers tremendous services for the betterment of human civilization. A major population in any country is dependent on banks to accomplish their day to day financial transactions. Banks and Financial Institutions have witnessed a lot of economic changes and development from the past and the trend continues till now. The changes and expectations in banking sector is a challenging trend to the sector's contribution to the society with the variety of talent and employability skills. The development of technology, changing demographics and the fluctuating economic and political situation, have all affected by the shortage of talent and under employment attitude. In the present hypercompetitive and increasingly complex global economy, one of the greatest challenges faced by almost every organization is to successfully attract, assess, train and retain the talented employees. With the banking sector becoming increasingly competitive and customer oriented, identification and management of talented personals becomes the biggest challenge. In order to understand the talent practices of the employees in the sector concerned, the researcher framed the objective to understand the factors contributing for selecting the current employment by the respondents and the employees view on talent management and organization readiness to improvise the same. The research found that there is an association between the age of the respondents and their perception on selecting the entry level job in banking sector.

#### 1. Introduction

Talent is the sum of a person's abilities, his or her intrinsic gifts, skills, knowledge, experience, intelligence, judgment, attitude, character and drive required for today and tomorrow. It also includes his or her ability to learn and grow giving his/her discretionary energy and making a real contribution through work to find meaning and purpose in his/her work. Talent provides companies with a competitive advantage, and it shares a common concern that not only the talent is scarce, but also most of the companies are not doing enough to manage and retain whatever they have. Human resources as the greatest source of competitive advantage for any organization, deserves the attention and time of managers more than any other organizational resource or asset. Management of people and risks are the two key challenges for banks because how they are able to manage their people and risk decides their quality of services. Efficient management of risk may not be possible without management of people and for the sustainability and to stay ahead in business, talent management cannot be ignored.

The banking sector in India has been largely resilient though the crisis in the past decades and are ahead in terms of prudential norms which enabled the Indian banks to endure the crisis. However, problems are creeping in - Some of the in Indian Banking sector and also determined the contribution of the talent management as a strategic tool for the organizational development. A survey method was conducted in all the public sector banks of India. Author concluded that the major challenge now for banks as well as any other organization is therefore how to develop their social architecture that generates intellectual capital as the quintessential driver of change.

According to Mourougan, (2015), the talent management practices implemented with robust technology applications can effectively identify and develop, from all levels of the workforce, the leaders who will best drive business performance. By identifying people within the organization who have the potential to become leaders and then working with them to fill any gaps in their skills, the organization will be able to build a strong bench of talent. Although there is much to consider when seeking broadening the organization's focus towards fully integrated assessment development architecture, starting with a broad, strategic foundation will pay dividends in leadership growth and business outcomes.

In 2014, Nagpal identified the reasons for importance of talent management for employees as well as organization, benefits to employees and organization, elements of talent