

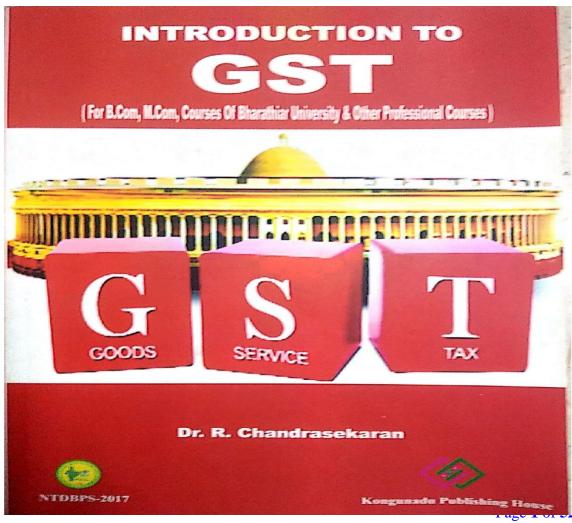
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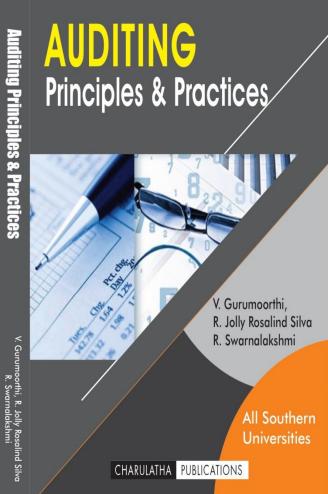
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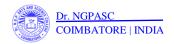
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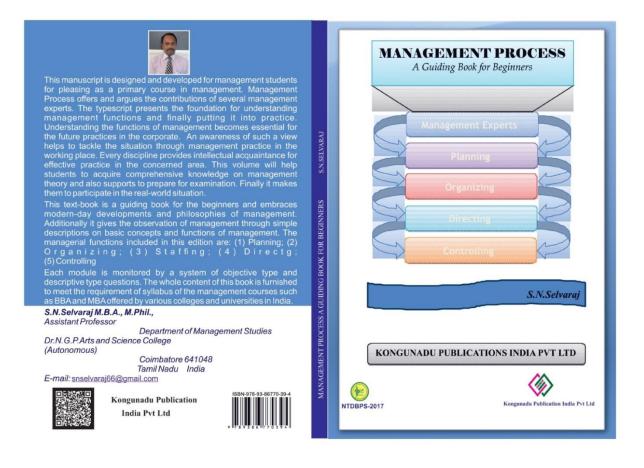
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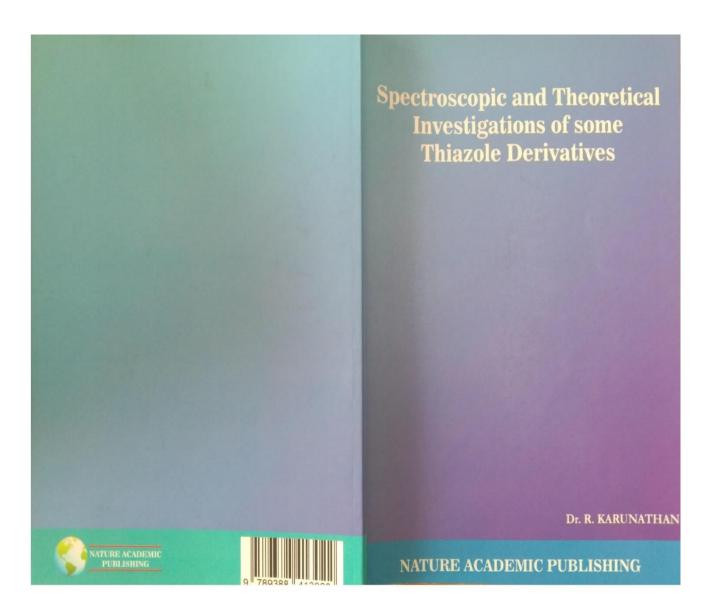


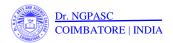
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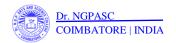
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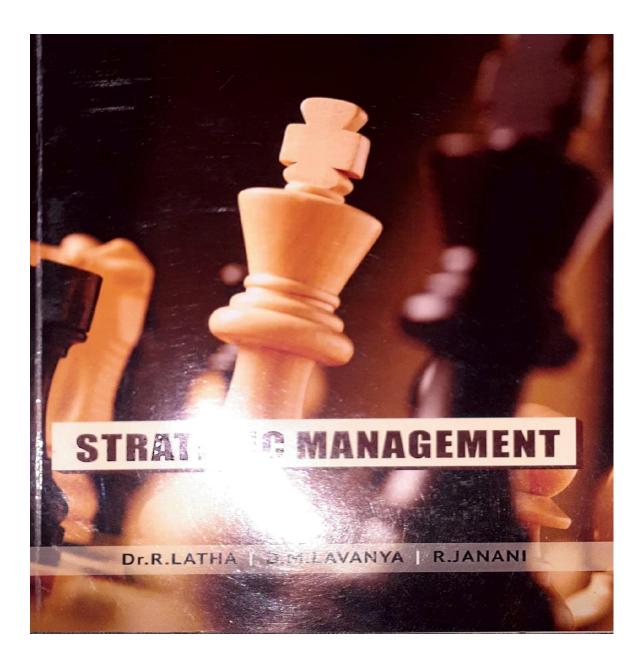
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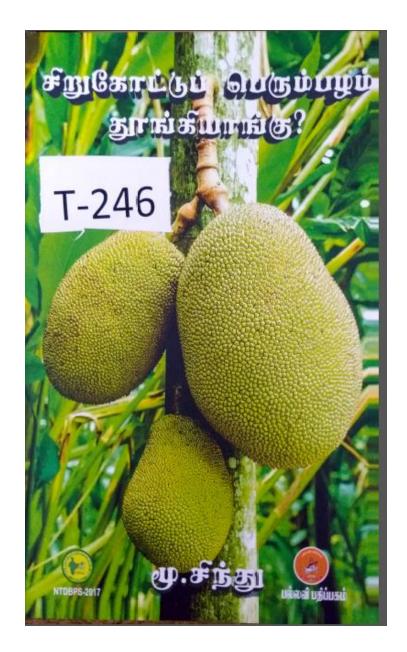
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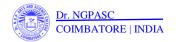
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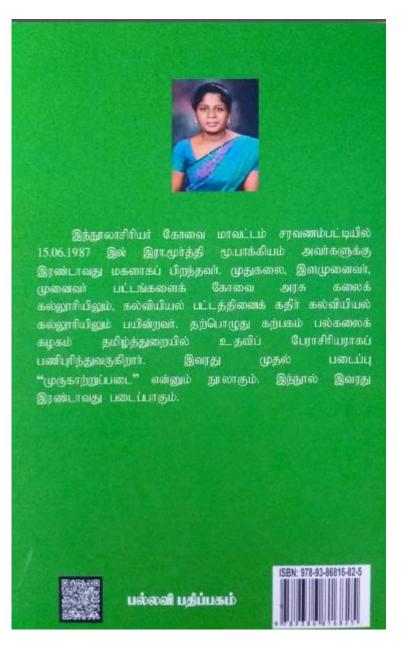
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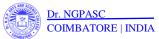


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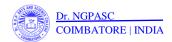
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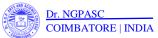


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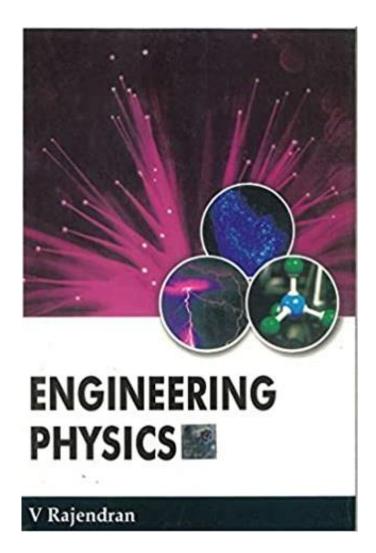
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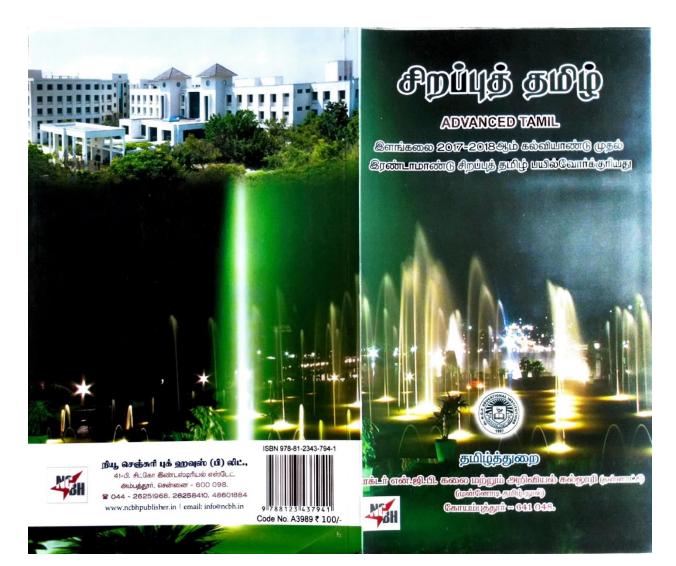
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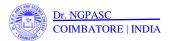
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முனைவர் சு. அனுசுயா உதவிப்பேராசிரியர், தமிழ்த்துறை முனைவர் க. செந்தில்குமார் உதவிப்பேராசிரியர், தமிழ்த்துறை





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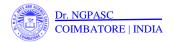
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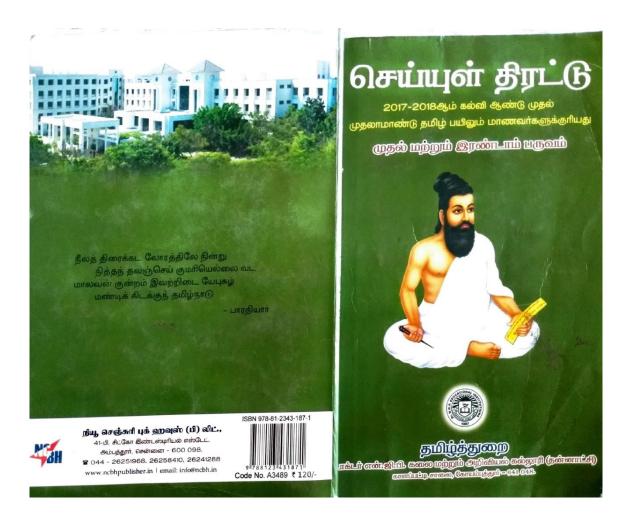


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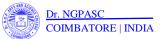


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4. Dr.T.Sivakumar





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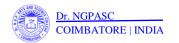
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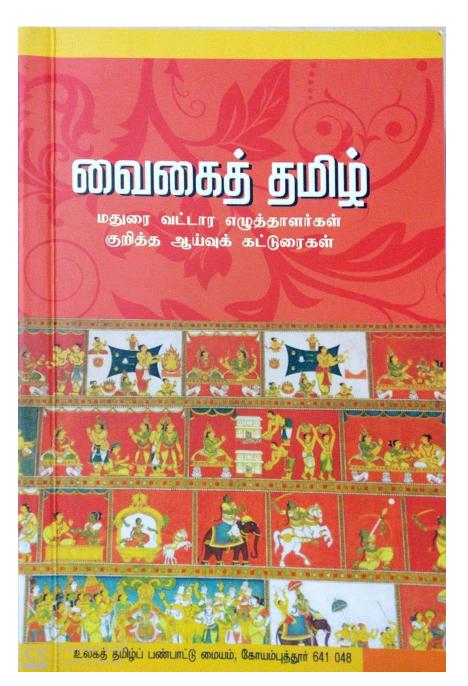




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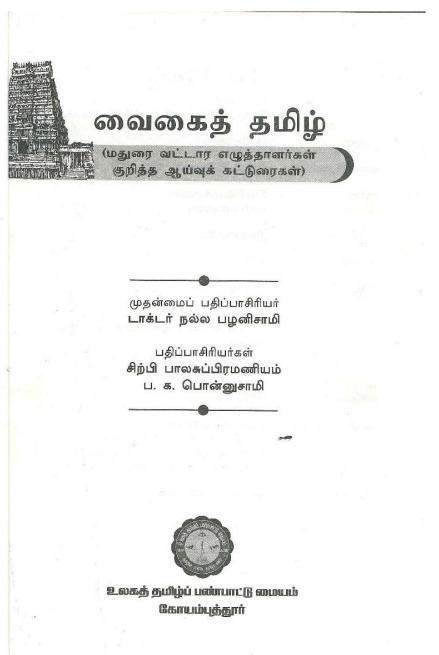


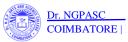
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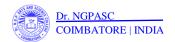
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6. Dr.V.Rajendran

Editorial

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In Focus section: NANO-15

The International Conference on Nanomaterials and Nanotechnology (NANO-15) was organized by the Centre for Nanoscience and Technology, K.S.Rangasamy College of Technology, Tamil Nadu, India and the World Class University (WCU), GIST, South Korea. The third series of conferences on nanoscience and nanotechnology, organised in Tamil Nadu, aimed to provide an interdisciplinary forum for scientists, engineers, technologists and industrialists, engaged in the full spectrum of research and application, to discuss the current status and recent developments of nanomaterials. NANO-15 was afforded the opportunity to publish the best conference papers in an In Focus for the internationally recognized journal Polymer International. Based on the initial double-blind reviews from the NANO-15 Conference reviewers, a select number of papers were invited for submission to the NANO-15 In Focus. These papers went through an additional peer review process with Polymer International reviewers, and the process yielded the three papers that are presented in this In Focus.

The first paper¹ addresses the important natural biopolymer chitosan, consisting of rich hydroxyl and amino groups that facilitate wide applications in many industries. Through a simple condensation method using thiophene-2-carboxaldehyde, the amino group of chitosan was modified to its Schiff base derivative. To investigate the chitosan-thiophene derivative as a corrosion inhibitor for mild steel in an acidic environment, gravimetric and electrochemical techniques were used. Kinetic and thermodynamic parameters revealed a strong adsorption between the inhibitor and the metal surface. Electrochemical techniques were used to investigate the mechanism of the inhibition.

The paper by Viswanathan and Ramaraj² examines polymers and polyelectrolytes as the capping agents to exert control over the nucleation and growth of nanocrystals. The polymer-based capping agent exhibits strong interaction with foreign analytes which are to be catalysed or sensed, and the polymer-capped nanocrystals are attractive materials for various applications. The prepared nanoparticles were found to be an efficient catalyst for the reduction of 4-nitrophenol.

The last paper in this In Focus³, by Praharaj, Kelkar, Raveshia and Mahanwar, addresses the topic of conductive polymer nanofibers. It is believed that a significant opportunity exists in developing a convenient chemical synthetic route for the bulk synthesis of nano-structured poly (3,4-ethylenedioxythiopene) (PEDOT), for potential use in the design of next-generation nano-electronic circuits and field emission devices. The added PEDOT nanofibers improve the conductivity of the solution, thereby improving the electrospinnability of polylactic acid (PLA).

Finally, we would like to thank the authors and the reviewers as well as the Editor-in-Chief of Polymer International Prof. Kurt Geckeler and the Associate Journal Editor Sonsoles Acosta, for their help with this In Focus. It has been a pleasure, and we have learned a lot. We would also like to thank the initial NANO-15 reviewers for their feedback and hard work, crucial for choosing the final papers. We hope all readers benefit from the papers as much as we did. This In Focus provides the opportunity to make the research from the NANO-15 conference accessible to a wider audience and we hope to continue the collaboration with Polymer International in the future.

> GUEST EDITORS Dr. V. Rajendran Dr. P. Prabu Dr. P. Mantvasakan Centre for Nanoscience and Technology K.S.Rangasamy College of Technology, India

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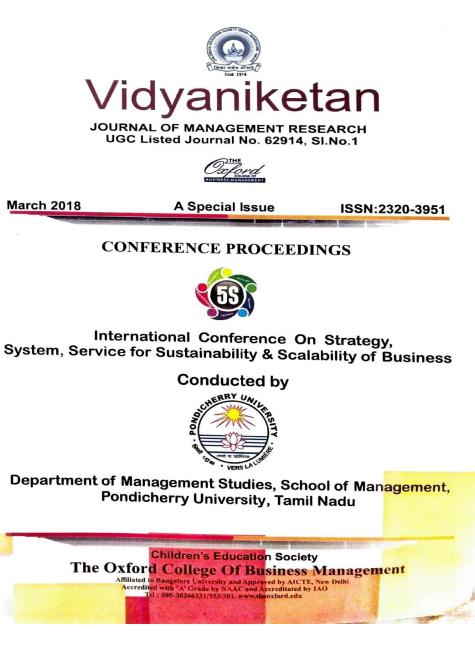
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A STUDY ON DISABILITY WITH SPECIFIC EMPHASIS ON DEPRESSION

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Abstract

As the well known proverb goes like 'Health is wealth', which emphasis on the importance of healthy life, however, being disabled is not a bane but can be considered a boon, if rehabilitation is gained for the same. The world report on disability produced jointly by WHO and the World Bank stated that more than a billion people in the world today experience disability. In India, as per census 2011, out of the total 121 cr population, 2.68 cr persons are disabled, which is 2.21% of the total population. Disability is any restriction or lack of ability (resulting from impairment) to perform an activity in the way or within the range considered normal for a human being and 'Rehabilitation' is said to be any steps taken medically, socially, economically or even vocational training or retraining provide to the disabled, in order to lead a normal life. The paper focuses more on 'Depression', which is the leading cause of disability around the world; also it is the major reason to the overall burden of disease globally. The study is based on the secondary data collected from various sources. The study is to bring up intelligibility on the disability and greater importance is given to widen the knowledge of depression as it is the start of spark of many flaming hitches in the present young generation available, who is the future of the entire world.

Objectives:

This study focus on the following

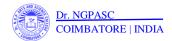
- Overview of disability world wide
- The role of the institutions and government in rehabilitating disabled is contemplated in this study.
- To bring up intelligibility on impact of depression.

Keywords: Disability, CBR, Mental illness, Depression, Welfare, Act, Rehabilitation

Introduction:

Disability is any mutilation that may be cognitive, intellectual, mental, developmental, physical, sensory, or some combination of these, which highly affects a person's day to day activities, that may be present equal reach to health care, employment opportunities, and even education. They do not obtain the disability related services that they actually require and hence experience elimination from normal day to day life activities. There have been many studies done on the common term 'disability'.

This paper involves more on 'mental illness' emphasizing more on 'Depression', which is a common mental disorder worldwide and one of the main cause of disability. Around the world, more than 300 quality of our lives. Mental strength will always boost up physical power, working on gym can be done every day, however unless we work out our mind, we won't get very far. The paper concentrates on



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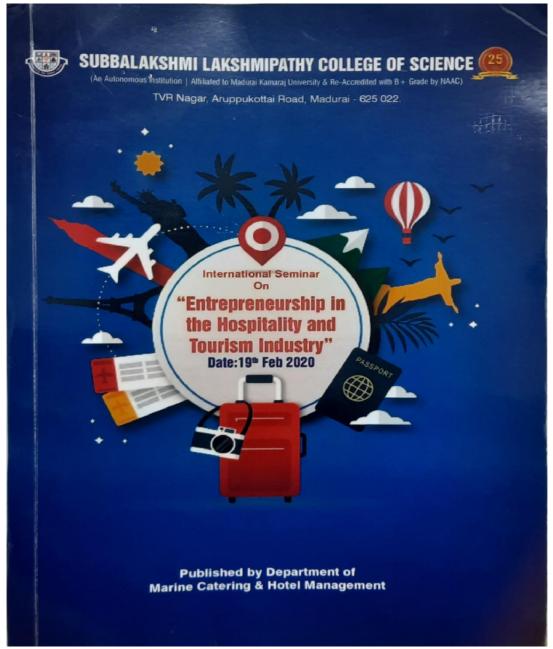


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2. Mr.S. Vijayakumar & Mr.M.Venkateswaran



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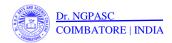
NAAC

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Title of the Book	:	"Entrepreneurship in the Hospitality and Tourism Industry"
Editors	:	Mr.C.Suresh Kumar Mr.N.Ramesh Mr.E.Jacob Jebaraj
First Impression	:	February 2020
Pages	:	340
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Criterion III Metric 3.4.4

NAAC 3rd Cvcle

ISBN : 978-93-5396-810-6 ROLE OF GOVERNMENT IN MOTIVATING ENTREPRENEURSHIP IN TOURISM

Mr. S.Vijayakumar Assistant Professor (SG)/ HOD, Department of Catering Science and Hotel Management Dr. N.G.P. Arts and Science College, Coimbatore – 48.

Mr. M.Venkateswaran Assistant Professor (SG), Department of Catering Science and Hotel Management Dr. N.G.P. Arts and Science College, Coimbatore – 48.

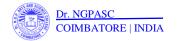
Abstract

The Tourism Industry is one of the growing industries and also evergreen where always people will have an intention to explore new places inbound as well as outbound. So for this the tourists have to depend on some accommodation facilities in and around the tourist areas for enjoying their trip in a peaceful way without any hurry. If the tourist areas does not have adequate facilities, then tourism cannot exist and prevail in that area. So the basic tourism products are very much important for the growth of tourism in a tourist spot. So the entrepreneurs play a vital role in the existence of tourism in a particular area. So the Government has to motivate the local people in developing their skill sets which is very much necessary for the hospitality industry. For this special skill development centres has to be established by the government to improve the skill sets of the young entrepreneurs. Also the government should take necessary arrangements for the development in the local areas, by providing places for resource development. Also the government should provide loan facilities as well as subsidy in loan repayment. All these will make tourism established in a area, which is helpful in two ways - Provision of facilities for the tourists, as well as employment opportunities for the local people.

Keywords: Tourism Products, Employment opportunities, Skill development, Loan facilities, subsidy, local development.

Introduction:

Tourism is a very important phenomenon, which is prevailing all over the world, and everyone has the intention to visit or explore new areas, in search of various aspects like cultural differences, leisure activities, medicinal purposes, architectural importance, ethnic groups, etc. Each and every person will be visiting some areas in their life time for any one of the above reasons. So tourism is having its own importance and it is an evergreen industry. The tourism industry is one of the largest industries in the world, which grows substantially and which adds to the economic growth of the country. This also doesn't stop with the economic growth of the country, but also adds to the development of the local community by providing employment opportunities as well as developing the entrepreneurial opportunities in the local areas.

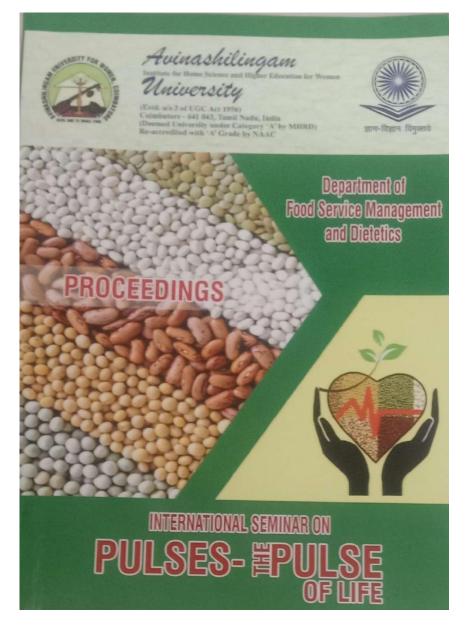




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3. S.Uma Maheswari





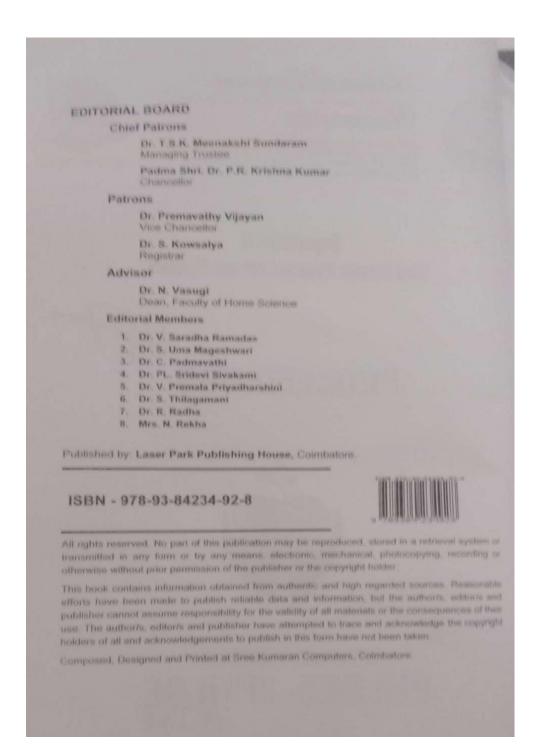
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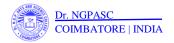


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ad International Seminar on "Pulses - The Pulse of Life" 2017 NUTRITIONAL AND FUNCTIONAL QUALITIES OF KIDNEY BEAN BREAKEAST FOR BASED FOR NUTRITIONAL AND LA CEREAL AND LEGUME BASED FERMENTED BREAKFAST FOOD. Uma Maheswarivadivelan S, & **Prathap Kumar H. Shetty
 strengt of Nutrition and Distellion Oracon Uma Maheswart of Nutrition and Dietetics, Dr NGp Arts and Science College Professor, Department of Nutrition and Dietetics, Dr NGp Arts and Science College Professor & Head, Department of Food acience and Science College Pondicherry University. <u>EasterHologamail.com</u> abatore the protein content and under the protein content and proteins of india. Ide the standard Lestract. The soft sponty texture, destination sour faste and characteristic arons. India. Idii Lestract study was to improve the protein content and textural parameters of india. Idii parameters of idii batter. Kidney beans (Phaseolus vulgars) are a key of the set of idii by parameters of idii by the set of the a landeus study was to initial and a protein content and textural parameters of idil by standard of kidney beans in idil batter. Kidney beans (Phaseolus vulgaris) are a idil by a standard of kidney beans the seed is low in fat and are a very good source of idil by beans contain up to 20–30% protein good source of four pression of kidney because the seed is low in fat and are a very good source of foliate and seed to be a very good source of foliate and and are a very good source of foliate and and are a very good source of foliate and any many to have good amino acid composition A nutlen for humans because kidney beans contain up to 20–30% protein on a dry weight basis, and the for humans because kidney beans contain up to 20–30% protein on a dry weight basis, and this is because kidney good amino acid composition. A base blend of 300-rd process is because have good amino acid composition. A base blend of 300g the base, and the good and the set of the set o been shown to have gram dhal was replaced with kidney beans at the ratio of 300g of rice kept as and 118g of black gram dhal was replaced with kidney beans at the ratio of ack kept as and 50%. The prepared batter is kept for fermentation for 8 hours at the ratio of 30% of 50%. ave been and 118g of share of batter is kept for fermentation for 8 hours at the ratio of 30%, and 50%. The prepared batter is kept for fermentation for 8 hours at 30°C and steam and 50%. It is the prepared batter is kept for the prepared batter is kept for fermentation for 8 hours at 30°C and steam and 50%. It is the prepared batter is kept for the prepared batter is kept for fermentation for 8 hours at 30°C and steam and 50%. and 50%. The property of 15min. The formulated idlis were evaluated for their physical and sensory characteristics. Based on the overall results of both texturel cooked in sensory characteristics. ut division in idli steamer evaluated idlis were evaluated for their physical, control and sensory characteristics. Based on the overall results of both textural and sensory control and sensory characteristics are the sensory control and sensory in the sensory refers, 40% replacement of black gram dhal in idli to develop nutriticus of sensory refers. and sensory characteristics of black gram dhal in idli to develop nutritious, organoleptically and sensory and the breakfast food. cceptable breakfast food. scoptable utou scoptable utou Phaseolus vulgaris, idli, texture profile analysis, sensory attributes, amino acids Key words:

introduction:

Idli is one of the very widely consumed fermented foods of India, particularly in Idli is one of india, particularly in parts. Since fermented foods also add variety to foods, several attempts have southern parts to replace black gram dhal in idli with other legumes and southern parts or the parts of ulgaris(kidney bean).

New varieties of idli batters were prepared by replacing the conventional black gram New variations of kidney bean thus making rice-black gram amponent with vulgaris mixtures instead of conventional rice-black gram hal-phaselous vulgaris mixtures instead of conventional rice-blackgram dhal batter hat phase loss the control. All the batters prepared as above were optimised by texture high served as the control. All the batters prepared as above were optimised by texture high served as the control. plich served destantion of the present study intended to incorporate Phaselou of a study intended to incorporate Phaselou of the organoleptic properties of all a ofie and to incorporate Phaselou peptability and to identify methods for improving the nutrient profile and possible for improve consumer the state of the erapeutic effectiveness of idli.

ethodology

terials

In the present study, the most commonly used variety of rice namely IR 20 and tein rich black gram variety Aduthurai 3 (ADT3) were used



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About the Institution

Under the auspices of Avinashilingam Education Trust, the patriot and educationist Dr. T.S. Avinashilingam Ayya found this great temple of learning with the vision to develop and empower women through modern scientific and value based education to enable them to lead a purposeful life filled with moral and spiritual values. Nurtured by the world renowned educationist and nutritionist Dr. Rajammal. P. Devadas, the institution provides quality education of global standards on a strong foundation of Indian values and traditions to women students based on current advances in Science, Technology and Societal demands with emphasis on commitment to social progress, peace, harmony and national integration.

About the Department

The vibrant department of Food Service Management and Dietetics since its inception in 1975 functions with the motto to enable students and research scholars to learn and explore the opportunities and challenges in the hospitality, food and dietetics sectors and to take up befitting positions. Till date the graduates and postgraduates have imprinted their foot steps at various capacities across the nation and around the globe as Food Service Managers, Nutritionists, Dietitians, Free lancers, Consultants and Academicians in the field of Hospitality Management and the Health sector.



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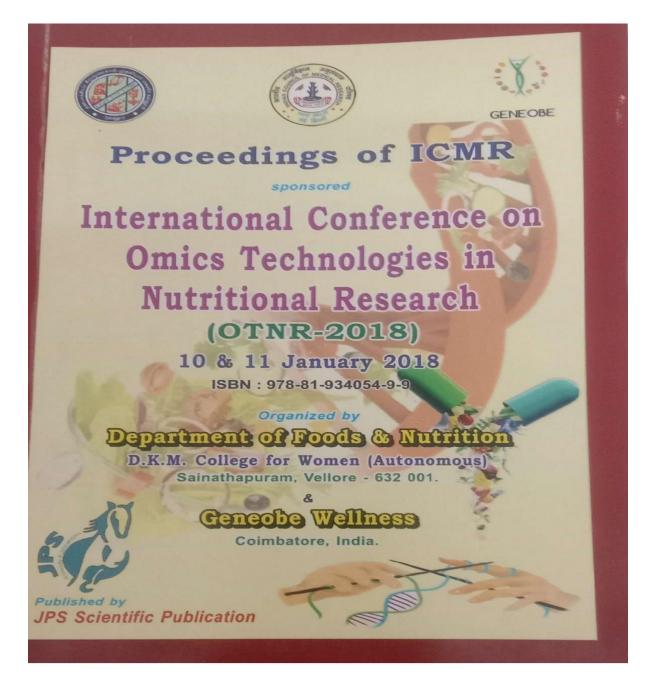


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4. S.Uma Maheswari



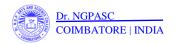
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NAAC 3rd Cvcle

GLYCAEMIC INDEX OF KIDNEY BEAN(PHASEOLUS VULGARIS) INCORPORATED IDLI – A CEREAL AND LEGUME BASED FERMENTED FOOD

S.UmaMaheswari Vadivelan¹ and Prathap Kumar H. Shetty²

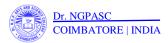
1 Assistant professor, Department of Nutrition and Dietetics, Dr.NGP Arts and science college, Coimbatore.

2. Head & Associate professor. Department of Food Science and Technology, Pondicherry University, Pondicherry.

ABSTRACT

The aim of the present study was to improve the nutritional and glycaemic index of idli by substitution of kidney bean in idli batter. Fasting blood glucose level was taken and post prandial blood glucose level (at 30 min interval till 2 hours) was checked with bread as standard to assess the glycaemic index of control idli and developed idli. Based on the overall results of both textural and sensory parameters, the present data suggest that kidney bean could be substituted up to a level of 40% in idli batter to develop organoleptically acceptable breakfast food. The mean blood glucose levels were increased after the intake of idli at 30 and 60 minutes, after which there was a decrease from 60 minute to 90 minute and 120 minute. The glycaemic index of control idli was 98 and significantly higher ($p\leq0.05$) than idli incorporated with *Phaseolus vulgaris*. From the results it is possible to identify food preparations in the traditional Indian diet having attributes of desired glycaemic effect, delayed peak rise, low glucose response curves. However in the present study, value added idli has high hypoglycaemic effect than control idli.

KEYWORDS: Idli, Phaseolus vulgaris, textural and sensory parameters glycaemic index



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3rd Cvcle

5. Leelavathi.B

Proceedings of the 2nd International Conference on Inventive Computation Technologies (ICICT 2017) IEEE Xplore Compliant - Part Number: CFP17K52-ART, ISBN:978-1-5090-6697-1

An Efficient Worm Detection System using Multi Feature Analysis and Classification Techniques

¹Leelavathi B Assistant Professor, Department of IT Sri Jayendra Saraswathy CAS Coimbatore get2leela@rediffmail.com

Abstract— one of the popular ways of detecting worm is signature based pattern matching. However, the signature of worm should be stored in advance for the pattern matching detection. Moreover, it calculates the similarity of input data using stored signature. Therefore, the storage problem and calculation overheads occur undoubtedly. Also, detection possibility is dropped, when malicious code is modified. So we use machine learning algorithm technique for detecting malicious worm executable and benign executable. In this paper, distinguished features of Portable Executable headers, Application Programming Interface (API) function calls and DLL files are used. The machine learning algorithm, Adaboost ensemble classifier, Naïve Bayesian classifier and Decision tree are applied for improving to detection rate. The performance of each algorithm firstly evaluated to find the most outperformed algorithm each for classifying benign executable and malicious worm executable. And then, these features were combined to detect worm more precisely.

Keywords— Portable Executable Header, DLLs, API function calls, Machine Learning algorithms, Efficient Worm Detection.

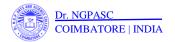
I. INTRODUCTION

While the computer application technology develops at full speed, the security of computer system makes people worried. The security of the computer system becomes more vulnerable than ever and faces more security threats because the technological progress brings the complexity of the application environment. Computers in the network cannot be protected due to the open characteristic of the internet and its lack of central control and global view. Under this network environment, malware and worm has stronger reproduction and destructive ability. Modern computer and communication infrastructures are highly susceptible to various types of attacks. A common way of launching these attacks is using malware (malicious software) such as worm, virus, Trojan or spyware [1,2]. Propagation of worm might result in havoc to private users, commercial companies and governments. As a ²Dr.Rajesh Babu. M Professor, Department of CSE Karpagam College of Engineering (Autonomous) Coimbatore

communication channels enable malware to propagate and infect hosts very quickly and so it is essential to detect and eliminate new (unknown) malware in a prompt manner.

A majority of antivirus vendors deploy signature based worm detection techniques that utilized predefined signatures' set (signature is unique hex code strings in each malware or infected files). Its procedure is as follows: (1) a new worm starts propagating on a large scale, (2) forensic experts of antivirus companies get its samples to study its behavior, (3) they assign it a signature which is effectively a sequence of its instructions, (4) the signature is added to the database, (5) customers are notified to update their signatures' set, and (6) customers update their signatures' set and are finally protected against this worm. It suffers from three main shortcomings: (1) it is unable to detect new worm and unknown worm, (2) the size of the signatures' set and the time of matching signatures will increase exponentially, and (3) during the period between the appearance of a new (unknown) worm and the update of the signatures' set of the anti-virus clients, millions of computers are vulnerable to the new worm. Moreover, worm writers often use sophisticated packing techniques to evade signatures and the advent of more sophisticated worm writing techniques such as polymorphism and metamorphism makes it even harder to detect a malware. Polymorphic and metamorphic malware change their appearance every time when they propagate.

Spinellis [3] has proved that the detection of bounded length viruses is an NP-complete problem. Therefore, we should use a variety of heuristic knowledge to identify malware and improve the accuracy of judgments. A number of nonsignature based malware detection techniques have been proposed recently. These techniques analyze several features of malware, such as machine-level code, disassembled code, static calls from the disassembled code, and run-time API (application programming interface) calls. The common bottlenecks of such techniques are their high false positive rate



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6. K.Gomathy

A SURVEY OF CLUSTER BASED KEY MANAGEMENT TECHNIQUES FOR SECURED DATA

K.Gomathy Assistant Professor, Department of Computer Applications. Dr.N.G.P Arts and Science College, Coimbatore kgomathy77@gmail.com

Abstract - In Mobile Ad Hoc Networks (MANETS), Clustering based routing protocol can sufficiently et Abstract - In Mobile Ad Hoc Networks (MANETS), Clustering based totally protocol can sufficiently etc. Performance, Scalability and Energy Efficiency. In this research Improved weight based clustering techniques and the constantly changing the leader of the constantly changing the leader of the second Performance, Scalability and Energy Efficiency. In this research is inspired from bird flocking being techning integrated along with a routing protocol is proposed. Our approach is inspired from bird flocking being the leader of the flocking the leader of th Performance, Scalability and Lucking behavior is proposed. Our approach to unput the leader of the flock in the station we be birds travel long distances in flocks and conserve energy by constantly changing the leader of the flock we be birds travel long distances in flocks and conserve energy by constantly changing the leader of the flock we be birds travel long distances in flocks and conserve energy by constantly changing the leader of the flock we be birds travel long distances in flocks and conserve energy by constantly changing the leader of the flock we be birds to the state of the flock we be birds to the state of the flock we be birds to the state of the flock we be birds to the state of the state of the flock we be birds to the state of the state of the state of the state of the flock we be birds to the state of the integrated along with a locating processing of the flock we have a locating algorithm based on moment to the flock we have a locating algorithm and designed our clustering algorithm based on moment to momen birds travel long distances in nonent-to moment-to momen decisions of individual nodes during communication. In this protocol, during specific algorithms and techniks of the known as clusters. The clusters are actively maintained and reassembled using specific algorithms and technik known as clusters. The clusters medium data transfer is a major problem in ad hoc it lacks served. known as clusters. The clusters are actively maintained and reasonable problem in ad hoc it lacks and technic Due to nature of inconstant wireless medium data transfer is a major problem in ad hoc it lacks security Due to nature of inconstant wireless medium data transfer is a major problem in ad hoc it lacks security Due to nature of inconstant wireless medium data transfer is a hundred to reduce the number of response in reliability of data. Our clustering scheme utilizes request suppression to reduce the number of response in the strengthenergy is a node facilitates to overcome link failure. The reliability of data. Our clustering scheme utilizes request suppression of acceleration of response is searching process. Consideration of alternative paths to a node facilitates to overcome link failure. The income searching process. Consideration of alternative paths to anothe approach which incorporates dynamic select. searching process. Consideration of alternative paths to a noor the which incorporates dynamic the international weight based routing scheme is a position based routing approach which incorporates dynamic selection of KEYWORDS: MANETS, Clustering Techniques, Routing protocol and Key Management

1.INTRODUCTION

Mobile Ad Hoc Networks (MANETs) have received drastically increasing interest, partly owing to the potential applicability of MANETs to myriad applications. The five components of a security mechanism are confidentiality, integrity, authenticity, availability and non-reputability. Out of these, authenticity is the most fundamental issue, since a breach of authenticity leads to a system-wide compromise. One of the widely used authentication mechanisms in conventional wired networks is the public key management system using certificates. One of the main issues to consider in a certificatebased scheme is the secure distribution of the public keys to all the nodes in the network. The Public Key Infrastructure (PKI) [1] defines methods to handle public key management using X.509 certificates.

Clustering is an approach used to make traffic d.

0.

Member Nodes: Member nodes at a called as ordinary node. Member nodes are mente of a cluster and these nodes have neighbour belonging to their own cluster. Guest Node: Guest node is a top P.

associated to a cluster.

1.1 Need for Clustering

Rekeying or refreshing GK for large a dynamic group is difficult one, because MAR devices are energy constrained, bathat constrained, battery operated and wireless drin One of the proposed architecture for efficient resource and Group key management in MANEL clustering. The clusters are sub groups of la network that simplifies group key management rekeying done only for ...



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7. S. Manimekalai

Normala Annual Research Congress (NAME-2017) December 2017

COMPUTING TOPOLOGICAL INDEX FOR CHEMICAL STRUCTURE IN DRUGS

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S.Mantimexinar, Converse Assistant Professor, Dr.N.G.P.Arts and Science College, Coimbatore, India. manimekala@dukeus.org Associate Professor, Nirmala College for Women, Coimbatore, India marycheinganal.org ant Professor, Dr.N.G.P.Arts and Science Conege, Communose, mana. manufectularity of the second state of t

Abstract:

Topological index is defined to be useful in the analysis of drug molecular structures, which is the structure of the structu Topological index is defined to be useful in the analysis of drug noncethar structures, while is quite helpful for pharmaceutical and medical scientists to find chemical characteristics of an interpret of drug molecular structure analysis and edge dividing technologies and the structure analysis and the structure analys is quite helpful for pharmaceutical and medical sciencists to the science of the drugs of the drugs. In this paper, by means of drug molecular structure analysis and edge dividing technology drugs. In this paper, by means of drug molecular structures drugs and the drug technology of widely used chemical structures which often a science of the drug technology of technol drugs. In this paper, by means of drug molecular structure analysis and edge driving technology, we present the Wiener topological index of widely used chemical structures which often appear

KEYWORDS

Bridge graph, Computational medical; topological index;

1.INTRODUCTION:

In Molecular graph, edges are compounds and vertices are bonds between compounds h is undirected graph. Molecular structure of chemical compound is called molecular graph.

In this paper, a Python program is presented which is useful for computing the Water

index of a bridge molecular graph. The interested readers can check http://repl.it/InwA/9 in

1.1 Wiener Index:

The Wiener index of a graph G is defined by $W(G) = \sum_{u,v \in V(G)} d(u, v)$ where $d_G(u, v)$ is the distance between vertices u and v of G.

1.2 Bridge Molecular Graph :

Let $\{G_i\}^d$ be a set of finite Molecular graphs with vertices v_i . The Bridge Molecular graph $B(G_i, G_i, G_i, V_i, V_i) \neq i$ of i and i with vertices v_i . The Bridge Molecular graph M determines the Molecular graph of i and i a Be (G), G2,...,G4,v1,v2,...,v4) of (G_i)^{*e*} with respect to the vertices $\{v_i\}^d$, from the Melecular graphic analysis $G_1, G_2, ..., G_4$ in which the vertices $\{v_i\}^d$, from the Melecular graphic and $G_1, G_2, ..., G_4$ in which the vertices $\{v_i\}^d$. graphs $G_{i_1}, G_{2}, ..., G_d$ in which the vertices v_i and v_{i+1} are connected by an edge for

1.3 Theorem:

For the bridge molecular graph $G_4(K_3, v)$ the Wiener index is given by

Where n=n*3

E=(n/3)-1+n

S=2((((n/3)-1)*5)-1)

X=C*(b-i)+X , i=(0 to m),

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NAAC 3rd Cycle

8. Dr..C.Kumuthini

A VERICULAR AD-HOC NETWORKS IN WIMAX TECHNOLOGY

[1] C Kumuthini, Assistant Professor, Dr NGP Arts and Science College, Coimbatore [2] Dr. A.Nithya, Associate Professor, RVS College of Arts and Science, Coimbatore

Abstract

Abstract: Many recent researchers focused on the wireless communication technology in Vehicular Ad-he-Many recent researchers focused on the wireless communication technology in Vehicular Ad-he-Many recent researchers focused on the wireless that such as traffic congestion, information day (VANETs) which addressed various issues in VANETs) which addressed various issues are Vahicular Ad-hoc Networks is similar to Mobile Ad- day (VANETs) which addressed various issues in VANET hoc Networks is similar to Mobile Ad-hoc Networks is similar to Mobile Ad accident and road damage information etc. Vehicular Ad-tox internet in a predefined roads. This paper surveys we wanted with the paper surveys we wanted and and the second model and the second secon MANET is random movement of nodes and VANET move on a propert surveys which serve as a which serve as a surveys which serve as a surveys which serve as a surveys and a such as 802.11p. WiMax which serve as a surveys and a survey surveys and a survey surveys as a survey surveys and a survey surveys as a survey surveys as a survey surveys as a survey surveys as a survey surveys and a surveys as supporting both safety and non-safety applications.

1. Introduction

Today Vehicular Ad-hoc Networks is the main challenges in wireless communication systems due to high mobility, high traffic, randomly changing topology and congestion when compare to MANET. Typically, it can connect to vehicles within the range of 100 to 900 meters if using 802.11p. It is aimed to support both vehicular to vehicular communications (V2V) and vehicular to infrastructure communication (V2I) over infrastructure-less network. It is essential to realize that the Intelligent Transportation System aims to improve road safety and provides a comfortable travel experience to driver and passengers [1][2].

2. VANET Communication Technologies hased on signal range

In VANET, vehicles employ a number of wireless access technologies to communicate with other vehicles and roadside base stations [3]. Generally, this is to improve traffic management and monitoring and to enable the driver and passengers to access infotainment/entertainment services. These protocols are broadly classified into five categories: WLAN/Wi-Fi Standards, systems, Cellular DSRC/WAVE Standard, CALM Standard and miscellaneous standards including Bluetooth, ZigBox, and Infrared. These protocols can also be grouped into three categories based on their range are

Long Range	WiMAX, Cellular, MBWA	
Middle	Wi-Fi , DSRC/ WAVE	
Prove a	C.1.1.1	



increases throughput. The new standard, water and standard, water and standard, water and standard an Mobile (IEEE 802.16m), uses advanced here Mobile turs such as Adaptive Modulation add (AMC), Hybrid Automatic Repeat Repet Repet Repet Rule and Fast Channel Feedback (CQ/CH) to and Past comobile users [4]. It is the broadband access to mobile users [4]. It is downlink data rates of up to 63 Mbps and upiet a downlink uses to a start of a start a WiMax for implementing road safety application streaming real time videos.

The IEEE 802.16 family of standards specia air interface for both fixed and mobile brack wireless access (BWA) systems spins multimedia services. WiMAX system is baci these technologies. IEEE 802.16-2004 for faid a IEEE 802.16e for mobile access, respectively, at a IEEE standards which define current structure of WiMAX system. WiMAX has licensed working spectrum allocations in 2.3 GHz, 2.5 GHz, 1304 and 3.5 GHz frequency bands and is capable of an 31.68 Mbps data rates with a single attenta type and up to 63.36 Mbps with a multiple atm system. The WiMAX is capable of supporting is moving users in a mesh network structure Syster with users moving at speeds up to 60 km/h hor m reported. However just recently there has been int discussion whether WiMAX will ever abr commercial success, due to long delivery dely at problems in large scale WiMAX network deposed projects (e.g. Sprint nationwide WiMAX anuti U.S.A.) [6]. Highway monitor network system but on WiMAX technology contributes to dealing of accident and improving road managing lot highway, which is helpful to form high shat 1 411- - ----- 14191



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Criterion III Metric 3.4.4

9. Dr.R.Kousalya

SURVEY ON BIG DATA ANALYTICS AND HADOOP FRAMEWORK

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Abstract:

The term 'Big Data' describes innovative techniques and technologies to capture, store, distribute, manage and analyze petabyte- or larger-sized datasets with high-velocity and different structures. Big data can be structured, unstructured or semi-structured, resulting in incapability of conventional data management methods. Data is generated from various different sources and can arrive in the system at various rates. In order to process these large amounts of data in an inexpensive and efficient way, parallelism is used. Big Data is a data whose scale, diversity, and complexity require new architecture, techniques, algorithms, and analytics to manage, extract value from hidden analytics purposes. Hadoop is the core platform for structuring Big Data, and solves the problem of making it useful for sets across clusters of commodity servers. It is designed to scale up from a single server to thousands of machines, Warmende Bio Den Unit and to be a structure with the server to thousands of machines, biomachines, bio-

Keywords-Big Data, Hadoop, Map Reduce, HDFS, Hadoop Components

1. Introduction

1.1 Big Data: Definition

Big data is a term that refers to data sets or combinations of data sets whose size (volume), complexity (variability), and rate of growth (velocity) make them difficult to be captured, managed, processed or analyzed by conventional technologies and tools, such as relational databases and desktop statistics or visualization packages, within the time necessary to make them useful. While the size used to determine whether a particular data set is considered big data is not firmly defined and continues to change over time, most analysts and practitioners currently refer to data sets from 30-50 terabytes(10 12 or 1000 gigabytes per terabyte) to multiple petabytes (1015 or 1000 terabytes per petabyte) as big data.

1.2 The challenges of big data

 Volume: Volume refers to amount of data. Volume represent the size of the data how the data is large. The size of the data is represented in terabytes and petabytes.

 Variety: Variety makes the data too big. The files comes in various formats and of any type, it may be structured or unstructured such as text, audio, videos, important for businesses, IT infrastructure system to store large amount of values in database.

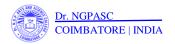
 Veracity: Veracity refers to noise biases and normality. When we dealing with high volume, velocity and variety of data, the all of data are not going 100% correct, there will be dirty data.

1.3 Problem with Big Data Processing i. Heterogeneity and Incompleteness

When humans consume information, a great deal of heterogeneity is comfortably tolerated. In fact, the nuance and richness of natural language can provide valuable depth. However, machine analysis algorithms expect homogeneous data, and cannot understand nuance. In consequence, data must be carefully structured as a first step in (or prior to) data analysis. Computer systems work most efficiently if they can store multiple items that are all identical in size and structure. Efficient representation, access, and analysis of semi-structured data require further work.

ii. Scale

Of course, the first thing anyone thinks of with Big Data is its size. After all, the word "big" is there in the very name. Managing large and rapidly increasing volumes of data has been a challenging



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Criterion III Metric 3.4.4

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10.S.Kathiravan

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Effect of Various Substrate Sterilization Methods and Days of Spawn Maturity on the Growth, Yield and Bioefficiency of Pleurotuseous, Pink Oyster Mushroom

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ABSTRACT

This study was dangined to investigate theeffect of various substrate startilization methods and days of pawn maturity on the growth, yield and bioefficiency of Pleuronuscous, pink optier mathroom. The well grown culture of the mathroom was used and mathroom spane was developed and sated for the culturation of mathrooms. There types of substrate startilization methods via, chemical, builing water and steam startilization was employed. The spane used for inoculation was with 23 days, 33 days and 45 days mathroity. The days of spane run, days of ph hasded appearance, days of furst, second and third harvest were observed. The yield in first, second and third harvest from the substrates startilized by three different methods ware recorded. The bioefficiency of mathroom was greater in steam startilized substrate followed by builing water startilized multimode and chemical startilized tablarties. The 35 day spane was very effective in producing more mathrooms followed by 43 day spane and 25 day spane. It is telerence that steam startilized substrate and 35 day spane is the preferable choice for the culturation of Pleuroneroess.

Keywords- Pleurotuseous, spawn, substrate, steam sterilization, bioefficiency.

INTRODUCTION

Mushrooms are defined as macrofungi with distinctive and visible fruiting bodies that may grow above or below ground[1]. Higher Basidiomycetes represent a taxonomically, ecologically, and physiologically extremely diverse group of eukaryotic organisms. Recently, extensive research on these fungi has markedly increased, mainly due to their potential use in a variety of biotechnological applications, particularly for the production of food, enzymes, dietary supplements, and pharmaceutical compounds (2,3,4). It is estimated that there are approximately 1.5 million species of mushrooms in the world of which approximately 70,000 species are cesoribed. About 10,000 of the known species belong to the macrofungi of which about 5,000 species are edible and over 1,800 species are considered to have medicinal properties [5].

Present use of mushrooms is totally different from traditional because, lot of research has been done on the chemical composition of mushrooms, which revealed that mushrooms can be used as a diet to combat diseases. The early history regarding the use of mushrooms in different ccuntries has been reviewed by number of workers [6,7,8].

A vast body of evidence indicates that edible and medicinal mushrooms contain many biologically active compounds disclosing anti-inflammatory, antitumor,

antibacterial, antiviral and antioxidant activity. Moreover, their antiallergic, antiatherogenic, hypoglycemic and hematological properties have been demonstrated [9] Amongst bioactive constituents occurring in mushrooms. phenolic compounds focus much attention due to their antioxidant activity. Since oxidative stress resulting from imbalance between the level of free radicals and the body's defense system is considered a serious cause of many diseases, including cancer and other civilization diseases, it is essential to search for natural sources of antioxidants. Numerous epidemiological studies indicate that polyphenol-rich food and beverages of plant origin consumed in human everyday diet reduce the risk of cardiovascular diseases, stroke and certain types of cancer [10]. These properties are commonly correlated with the anticxidant activity of phenolic compounds, which makes them useful for decreasing oxidative damage in the human body [11]. In addition, edible mushrooms usually contain various bioactive molecules, such as phenolic compounds, polyketides, terpenes and steroids [12]

Mushrooms can substantiate the sufferings from malnutrition to some extent, because they produce large quantities in a short time and provide more protein per unit area than other crops [13].

Pleuronus species are commonly called Oyster mushrooms. There are about 40 species of this mushroom. They enjoy worldwide distribution. It is one of the most commonly used edible mushrooms and is also used as a

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