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3.4.4. Number of research papers per teacher in the Journals notified on NON UGC website

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| 2 | S. VAITHYSUBRAMANIAN | | A FRAMEWORK FOR MONITORING PATIENT'S VITAL SIGNS WITH INTERNET OF THINGS AND BLOCKCHAIN TECHNOLOGY | 2020 - 2021 | HTTPS://DOI.ORG/10.1007/978-981-16-0965-7_54 | THE AUTHOR(S), UNDER EXCLUSIVE LICENCE OF SCIENCE AND TECHNOLOGY, CHENNAI, INDIA |
| 3 | S. VAITHYSUBRAMANIAN | | IMAGE ENCRYPTION USING MATRIX ATTRIBUTE VALUE TECHNIQUES | 2020 - 2021 | HTTPS://DOI.ORG/10.1007/978-981-16-0882-7_14 | SPRINGER NATURE SINGAPORE PTE LTD. |
| 4 | S. VAITHYSUBRAMANIAN | | IMAGE EXTRACTION USING IMAGE ATTRIBUTE CONCEPTION TECHNIQUES | 2020 - 2021 | HTTPS://DOI.ORG/10.1007/978-981-15-8221-9_87 | SPRINGER NATURE SINGAPORE PTE LTD. |
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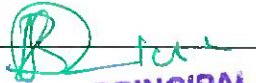
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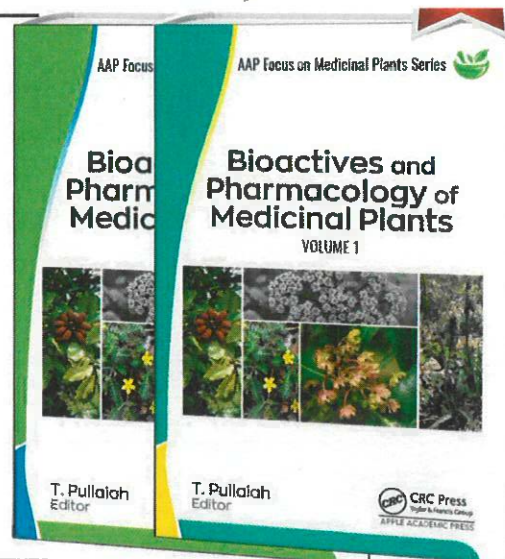
Bioactives and Pharmacology of Medicinal Plants (2-volume set)

Editor: T. Pullaiah, PhD
Former Professor, Department of Botany,
Sri Krishnadevaraya University, Andhra Pradesh, India

This two-volume book, **Bioactives and Pharmacology of Medicinal Plants**, concisely presents an abundance of important information on the bioactive and pharmacological properties of medicinal plants. It provides valuable comprehensive research and studies on bioactive phytochemicals of over 68 important medicinal plants with beneficial properties.

For each species included in the volumes, a brief introduction is given along with their bioactive compounds and chemical structures, followed by their chief pharmacological activities that include antiviral, antimicrobial, antioxidant, anti-cancer, anti-inflammatory, antidiabetic, hepatoprotective, nephroprotective, and cardioprotective activities. A review of the published literature on pharmacological activities on each species is included also, providing a thorough resource on each of the plants covered in the volume.

The book's editor, an acknowledged expert in this area, foresees that these volumes will become a reliable standard resource for the development of new drugs. The volumes will be a valuable addition to the libraries of pharmacy institutes and pharmacy professors, research scholars, and postgraduate students of pharmacy and medicine, and enlightened medical professionals and pharmacists, phytochemists, and botanists will find much of value as well.



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Volume 2

63. Chemical Composition and Biological Properties of
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Nandini K. Murthy, E. Nalini, **Anbzhagan Mageswari**,
Parthiban Subramanian, and
K. M. Gothandam



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A Framework for Monitoring Patient's Vital Signs with Internet of Things and Blockchain Technology



A. Christy, MD Anto Praveena, L. Suji Helen, and S. Vaithyasubramanian

Abstract In this prevailing situation of automation, private data related to the public needs to be stored for all businesses and transactions. Most often, the private data of the patient's name, mobile number, diseases, laboratory report, and treatment undergoing is breached by intruders. Automation in the healthcare sector can be made in a highly secured and less complicated manner by integrating patient's health records and health insurance agencies by adopting blockchain technology. In this article, a real-time patient health monitoring system has been built and implemented on an IoT platform which can allow healthcare agencies like hospitals and doctors to monitor critical data of the patient in real-time and respond to the needs of the patient accordingly. The proposed system will prove to be beneficial for patients as well as the doctors and nurses and will lead to the implementation of an intelligent system which can automate various overviews being conducted by healthcare agencies adopting blockchain technology.

Keywords Smart healthcare · Blockchain · Internet of things · Body area network · Sensors · IoT tools

1 Introduction

Internet of things (IoT) was first proposed by Kevin Ashton who had worked at MIT's Auto-ID Center though the overall concept of implementation of a system architecture that is connected to a network and can be likely monitored by the use of smart devices date back almost four decades back when a Coke machine at Carnegie Mellon University was connected to the Internet which allowed the vendors to prepare reports on the drinks. In the present context, the Internet of things is recognized as the next big step in the field of technology alongside artificial intelligence, big

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A. Pasumpon Pandian et al. (eds.), *Computer Networks, Big Data and IoT*, Lecture Notes on Data Engineering and Communications Technologies 66,
https://doi.org/10.1007/978-981-16-0965-7_54

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Image Encryption Using Matrix Attribute Value Techniques



D. Saravanan and S. Vaithyasubramanain

Abstract In this technological world encoding the images is one of the important activities to avoid monitor or hack by the third parties. Data protection becomes essential because the communication occurs frequently over open networks. This paper focuses on Binary model encryption using a form of stream ciphering. Due to the development of technology conversion of images into encoded format is more essential in any type of network. It helps to protect our data from the hacker who try to steal our information's. Confidentially is particularly important for safe dissemination of the media over IP networks. While compression of image reduces the bandwidth, it is not safe to transmit compressed images alone. It is equally important to encrypt the images until they are transmitted to a network. Investigation shows that the methodology suggested is generating better results than the current procedures.

Keywords Image encoding · Secrete code · Encryption · Image conversion · Binary code conversion · Stream ciphering

1 Introduction

Binary model is one of the latest technologies used in various places for analyze and retrieve the content. This model used in various domains extracting the needed information's based on the user query. Binary model are made up of black and white images which are quantified by double principles, typically Zero and one, this values further represented in some model through the help of colors. Typically, zero represents one color and one represents other color. Advantage of this binary model occupies the less memory and produces efficient result [1]. Today any type of network the hacker can easy hack the data's so privacy is particularly important for

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M. S. Kaiser et al. (eds.), *Information and Communication Technology for Competitive Strategies (ICTCS 2020)*, Lecture Notes in Networks and Systems 190, https://doi.org/10.1007/978-981-16-0882-7_14

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Image Extraction Using Image Attribute Conception Technique



D. Saravanan and S. Vaithyasubramanian

Abstract Image extraction based on image attributes is one of the emerging fields in image processing. Today, most of the retrieval process is done with help of image attributes. Because of this popularity, today, most of the researchers are devoted the research activity in this domain. Through the help of image attribute, image extraction gives good results compared to text-based retrieval process and image-based retrieval gives good accuracy, and high amount of exact information is retrieved in short span of time. Through this image attributes, users can extract the need information from the stored data source. This is achieved in various techniques one of the emerging techniques through image color histogram value. This image attribute extraction technique not only gives the good result but also overcome the existing text-based retrieval. This paper brings the idea about retrieves information based on content-based using image attributes, and experimental output verifies the proposed technique gives the better performance.

Keywords Image-attributes · Extraction · Mining · Similarities · Pixel · Comparison

1 Introduction

Increase in the demand of information retrieval, number of information retrieval techniques were available, at the same time increase in the demand of image, video, audio utilization in various fields defiantly required a new information retrieval technique to retrieve multimedia data content. The term multimedia refers the combination of motion, static images, visual information, audio, text, and more. From the complex data sets brining, the needed content is really a big challenge for many researchers,

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PRINCIPAL

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Received and Perceived Status of Health Management Information System (HMIS) Software: A Structural Equation Model (SEM) Approach

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Abstract

More than supply the demand for health care usually determines the design of public health services. This is more so when technological developments, including that of information and communication technologies, pierce through the process of utilization of any service by the public. Although prior research papers have focused on the factors that impact on the adoption of information technology, there are limited empirical research works that simultaneously capture technology factors (TAM, TAM2) and end-user development specific factors (perceived technology usage and intention to recommend) helping healthcare professionals to adopt Health Management Information System (HMIS) software in the healthcare environment. To fill this gap, the present paper used the Technology Acceptance Model (TAM), the extended TAM model (TAM2) and identified the important determinants of user acceptance perceived risk and trust. This is specifically undertaken in order to describe ESIC healthcare professionals behavioral intention to adopt HMIS software services. The study was conducted in the Employees' State Insurance Corporation (ESIC) main hospital and dispensaries in the Tirunelveli sub-region. The required data were collected from 171 ESIC healthcare professionals in the Tirunelveli sub-region. A Structural Equation Model (SEM) approach was used. Convergence and divergence with earlier findings were found, confirming that Perceived Usefulness (PU), Perceived Ease of Use (PEOU), social influence, facilitating conditions and training had significant influence on the intention of healthcare professionals to adopt HMIS software. The study provided a basis for further refinement of technology adoption model. Improving perceived usefulness factor (perceived long-term usefulness) may turn healthcare professionals towards adoption of HMIS.

Keywords: Information Technology, Technology Acceptance Model, Employees' State Insurance Corporation, Perceived Usefulness and Perceived Ease of Use.

Introduction

In recent years, there has been growing global emphasis on the need for Information Systems (IS)

in all sectors. The elementary conditions that enable global competition in the information society are the development of communication technologies and the importance of the administrative information flows and the inter-institutional communication networks. Therefore, more emphasis is placed on flexible and cost efficient information systems in the competitive presentation of public services. Information systems are one of the means by which public institutions can save economic indicators, such as time and cost. Assuring and promoting quality in health care services continues to be a priority for any health care system. Besides evaluation of health status through morbidity and mortality estimates, there has been equal emphasis

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**HIGHER EDUCATION IN INDIA – ACCORDING TO NATIONAL EDUCATION
POLICY 2020**

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ABSTRACT

India is the one country which is having rich heritage and high educational standards. In India we followed many systems of education from Gurukulam to NEP 2020. There were many up and downs in the education system, now we are implementing the new system called NEP 2020. This study highlighted some points on the higher education from the National Education policy. **Key words:** NEP 2020, Higher Education, Multidisciplinary studies, Need and Importance.

INTRODUCTION - NEP 2020:-

It is stated in the National Education Policy that the higher education must target to set one's sights on all-rounded, pensive, and highly creative. It aims to make the specialized courses granting to 21st century demands. So that it enables the learner community to get deepened knowledge on the interested areas. This higher education in NEP 2020 is the pool of subjects, techniques and technology. Subjects comprise of various disciplines and linguistics. It highly impresses the lay man also to read a lot and enrich him by satisfying various courses. It sharpens the minds of the reader; it can enlighten the reader, and the reader can enlighten the society through his constructive and combined knowledge with interest and passion. It satisfies the ego or self-actualization of the person by the meaningful and satisfied lives. This national education policy must create the independent attitude, self-interest on studies and self-confidence with vibrant knowledge.

HIGHER EDUCATION:-

- The purpose of education is creating individuals with the holistic nature, it will happen only when the learner incorporated with the skills and values from the each stage of learning that is from the kinder garden to higher education. This is the mantra of NEP 2020. Actually bringing back the ancient educational culture, in ancient days our educational system was the leading system of education. Now, again our NEP 2020 aims to become “Vishwa Guru.”
- 9.1 - The new education policy leading towards a more multidisciplinary graduation course.

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Abstract and content (in 500 words)

The article explains about the Philosophy of Visitadvaita Vedanta based on the text Srihashya written by Ramanujacarya. The third adhyaya of sribhashya starts with this concept by name panchagnividya.

Certified that the above given information

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Signature of the participant

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श्रीभाष्ये पञ्चाग्निविद्याप्रतिपादनम्

- डा. वि. बालाजि:

ABSTRACT

यद्यपि कर्मविचारेण तत्फलेषु वैराग्यवत एव ब्रह्ममीमांसायामधिकार इति जिज्ञासासूत्रे व्यवस्थापितत्वेन पुनरपि वैराग्योत्पादनाय प्रयत्नोऽयं व्यर्थ इति शङ्कितुं शक्यं, तथाऽपि पञ्चाग्निविद्यानिरूपणेन यादृशं वैराग्यं विषयेषूपद्येत, न तादृशं वैराग्यं कर्मविचारेणोत्पद्यत इति तदर्थं प्रयत्नस्सफल एवेति मन्यमानस्तृतीयाध्यायप्रथमपादे पञ्चाग्निविद्यानिरूपणेन कर्मफलानां सर्वेषामपि नश्वरतां निरयतुल्यतां च ख्यापयितुमारभते तदन्तरप्रतिपत्तौ इत्यादिना।।

तदन्तरप्रतिपत्तौ रंहति संपरिष्वक्तः प्रश्ननिरूपणाभ्याम् इति प्रथमं सूत्रं भवति। अत्र अश्रुतत्वादिति चेन्नेष्टादिकारिणां प्रतीतेः इत्युत्तरसूत्रात् इष्टादिकारी इति पदं प्रथमैकवचनान्तमुपतिष्ठते। वेत्थ यथा पञ्चम्यामाहुतावापः पुरुषवचसो भवन्ति इति प्रश्नवाक्यं त्रिवृत्करणभूतसूक्ष्मपरं आप इति पदं तृतीयान्ततया विपरिणतं बुद्धिस्थतयाऽन्वेति। संज्ञामूर्तिऋषिस्तु इति पूर्वाधिकरणसूत्रे मूर्तिशब्देन प्रस्तुतो देहः तदन्तर इत्यत्र तच्छब्देन परामृश्यते। ततश्च इष्टीदिकारी – जीवः, तदन्तरप्रतिपत्तौ – देहान्तरप्राप्तौ, भूतसूक्ष्मैः संपरिष्वक्तः – संबद्ध एव रंहति – गच्छति, प्रश्ननिरूपणाभ्यां – प्रश्नोत्तराभ्यां तथाऽवगतेरिति सूत्रार्थः.....

श्रीभाष्ये पञ्चाग्निविद्याप्रतिपादनम्


यद्यपि कर्मविचारेण तत्फलेषु वैराग्यवत एव ब्रह्ममीमांसायामधिकार इति जिज्ञासासूत्रे व्यवस्थापितत्वेन पुनरपि वैराग्योत्पादनाय प्रयत्नोऽयं व्यर्थ इति शङ्कितुं शक्यं, तथाऽपि पञ्चाग्निविद्यानिरूपणेन यादृशं वैराग्यं विषयेषूपद्येत, न तादृशं वैराग्यं कर्मविचारेणोत्पद्यत इति तदर्थं प्रयत्नस्सफल एवेति मन्यमानस्तृतीयाध्यायप्रथमपादे पञ्चाग्निविद्यानिरूपणेन कर्मफलानां सर्वेषामपि नश्वरतां निरयतुल्यतां च ख्यापयितुमारभते तदन्तरप्रतिपत्तौ इत्यादिना।।

तदन्तरप्रतिपत्तौ रंहति संपरिष्वक्तः प्रश्ननिरूपणाभ्याम्¹ इति प्रथमं सूत्रं भवति। अत्र अश्रुतत्वादिति चेन्नेष्टादिकारिणां प्रतीतेः² इत्युत्तरसूत्रात् इष्टादिकारी इति पदं प्रथमैकवचनान्तमुपतिष्ठते। वेत्थ यथा पञ्चम्यामाहुतावापः पुरुषवचसो भवन्ति³ इति प्रश्नवाक्यं त्रिवृत्करणभूतसूक्ष्मपरं आप इति पदं तृतीयान्ततया

¹ ब्र.सू.3.1.1

² ब्र.सू.3.1.6

³ छा.5.3.3



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Abstract and content (in 500 words)

This article is meant for seekers who are aware that the presence of guru is important if one wants to advance and understand the core reason of human birth, and how the guru helps tide over the cycle of birth and death. This article also might be especially for those who are initiated and looking for more depth in their spiritual life.



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आचार्यमाहात्म्यं कुलशेखरसूरिवैभवञ्च

- डा. बी. केशवप्रपन्न पाण्डेयः

कुम्भे पुनर्वसौ जातं केरले केळिपट्टने।

कौस्तुभांशं प्रपद्येऽहं राजानं कुलशेखरम्॥¹

श्रियःपतिरवाससमस्तकामः समस्तकल्याणगुणगणः जगज्जन्मादिकारणं परात्परः परमपुरुषः पर-
ब्रह्माभिधानः परमं पदमधितिष्ठन् चेतनोजिजीविषया सिसृक्षुस्तान् करणकलेबरैः संयोज्य, विधिनिषेधपराणि
शास्त्राणि, तदुपदेशरमाचार्यं च प्रदाय शरणापन्नजीवेषु विद्यमानातिशयप्रीत्या अर्थपञ्चकज्ञानमुपदिदेश।

तथापि स्वेच्छाप्रवृत्तिमतो विरुद्धानुष्ठानपरांश्च चेतनान् स्वधर्मे प्रवर्तयितुं नरो नारायणश्च भूत्वा भूमावतीर्थ
शिष्याचार्यधर्मान् स्वयमनुष्ठाय प्रादर्शयत्। पुनश्च नैकधावततार तानेतान् सत्पथे प्रवर्तयितुं पौनःपुन्येन। परं
तत्राप्यसाधारणैः धर्मैः अस्य परत्वं विज्ञाय अभाग्याः चेतनाः सुदूरङ्गताः। ततश्च मनुष्यसजातीयोऽजनि
रामकृष्णादिना रूपेण। तत्रापि ते मनुष्यास्तं भगवन्तं नैवागणवन् यतोऽसौ अतिमानुषैः समुद्रादिभिः व्यापारैः
निहीनैरपि कपिश्लेहादिभिः कदाचित् स्वस्य परत्वम् अन्यदावरत्वञ्च प्रकटीचकार।

एवं सर्वथैव भगवत्प्रवृत्तिप्रतिकूलवृत्तिषु चेतनेषु, स भगवान् सुसूक्ष्मं विचिन्त्य कांश्चन चेतनान्
विशेषतोऽभिवीक्ष्य, तानिमान् शठकोपकुलशेखरादिदिव्यसूरीन् संसारिमध्ये प्रावेश्य, वश्यैरेव गजैः मत्त-
मतङ्गजान् इव एभिः दिव्यसूरिभिरेवैतानभाग्यान् संसारविषयमग्नान् जीवान् स्वायत्तीकर्तुं प्रायतत। ते तु
दिव्यसूरयो भगवतो निर्हेतुककृपया सन्तीर्णतन्मायाः, साक्षात्कृत-यथावस्थित-तत्त्वहित-पुरुषार्थज्ञानाः,
भगवत्पारतन्त्र्य-काष्ठा-निष्ठाः, नित्यानन्दानुभवयोग्यानापि संसारेषु नितरां क्लिश्यमानचेतनानुद्धीक्ष्य निर्विण्णाः
परोपदेशमुखेन तान् सुपथा प्रवर्त्य ननन्द भगवान् नितरां निजप्रयत्नसाफल्यत्। एवं 'स्वासाध्ये कर्मणि
सिद्धहस्ता इमे'² इति किल भगवान् एतेषु आचार्यवरेषु विशेषतोऽनुरक्तो भवति। अनेकेषु च भगवतोऽतरेषु यथा
मत्स्यादिदशावताराः प्रधानाः भवन्ति तथैव आचार्येषु दिव्यसूरिषु च शठकोपकुलशेखरप्रभृति-
रामानुजाद्यवताराः मुख्यतमा भवन्ति। एतादृशानां महतां विषये शास्त्रेषु महद्वैशिष्ट्यमपि प्रदर्शितम्। तेषां
दिव्यावतरणमुद्दिश्य कानिचन पौराणिकपद्यानि यथा -

कलिस्साधुरिति प्रोक्तो वेदव्यासेन धीमता।

¹ आल्लुवावैभवे

² श्रीमद्भरतमुनिविरचितप्रमाणसङ्ग्रहाद्भुतः, स्तोत्ररत्ने-२



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credit growth of Indian banks. This paper highlights the banker's psychological biases developed due to uncertainties caused by the Covid-19 pandemic. The sectors like logistics, international trade, and manufacturing are showing negative credit growth, whereas the demand for consumer credit and loan against shares, bonds, fixed deposits has been increased. RBI has infused Rs. 8 lakh crores to Rs. 9 lakh crores liquidity into the system, but these measures are not adequate to boost the bank's credit growth due to risk averse behaviour of bankers. The paper concluded that the banker's risk-averse behaviour has resulted into sluggish credit growth.

CORPORATE SOCIAL RESPONSIBILITY (CSR)

Sharada Gaitonde
Associate Professor

Corporate Social Responsibility (CSR) has become mandatory for companies in India fulfilling certain conditions since 1st April, 2014. The Government has issued guidelines regarding what qualifies as CSR and the areas in which funds may be spent by corporates as well as activities which do not qualify as CSR. The Ministry of Corporate Affairs also has a portal of CSR. The rules are being periodically amended considering the changing circumstances and the need of the hour. Every year the best companies worldwide as well as in India are declared on the basis of their CSR initiatives though the bases are not uniform worldwide or even in India. The Economic Times rating is on the basis of the quantum of CSR spend during the financial year whereas the Futurescape Survey takes into consideration many more parameters. Companies in USA are ranked after surveying the general public and also analysing performance of the companies on Environmental, Social and Governance issues. The researcher has chosen to analyse the Top Ten Companies in India in CSR in 2020, the purpose is to ascertain what distinguishes these companies from other companies. About a month ago on 12th May 2021, the Securities and Exchange Board of India (SEBI) declared that corporates would have to furnish information about Environmental Social and Governance issues which would be mandatory from 2022. SEBI has not clarified the details therefore this year providing that information is optional. This paper considers some aspects of a concept which is evolving in the light of the present circumstances where aspects considered as non core are being considered as essential both at the national and the international level for survival as well as for compliance.

A STUDY ON IMPACT OF JOB BURNOUT AND BOREDOM ON EMPLOYEE ENGAGEMENT OF EMPLOYEES IN SELECT IT COMPANIES IN CHENNAI

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Dr. K. Prabhakar

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Chennai is one of the IT Hubs of India. Around 6 Million people are employed in the ITES sector in Chennai as of 2020. The ITES sector has become one of the most important growth drivers for the Indian economy. Indian information technology industry has also provided large scale employment to educated and skilled workforce. Burnout is used by professionals, particularly measured among individuals providing human services to explain the mental state of exhaustion. Boredom traditionally visualized as a situation of low arousal and dissatisfaction due to a light-demanding work situation also explored concerning monotonous and repetitive work nature. Employee engagement in their work has appeared as the reverse of burnout, which is "a state of mental energy". For modern organizations, employees' mental fitness provides a decisive competitive advantage. A simple random sampling method was used to collect data from six major information technology companies in Chennai. Results reveal that an inverse relationship is significant between Job Burnout and Employee Engagement to reject null hypothesis H1. Likewise, an inverse relationship is statistically proved between Job Boredom and Employee Engagement is inferred. Therefore, it is evident that when the Burnout increases by one-unit Employee engagement among respondents decreases by 1.071 units. Also, when the Job Boredom

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A Survey on Machine Learning Techniques for the Diagnosis of Liver Disease

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Abstract- Owing to excessive alcohol consumption and inhalation of contaminated air, the number of people suffering from liver disease is increasingly rising. As a result of gas, medications, food poisoning, and food pickling, the medical expert system will assist a doctor in making an automatic prediction. Early detection of liver disease is now possible thanks to continued advancements in machine learning technology, allowing people to diagnose the deadly disease at an early level. This would be more beneficial in the healthcare department, and a medical expert system can also be used in a remote location. The liver is vital to life because it aids in the elimination of toxins from the body. SVM, KNN, K-Mean clustering, neural network, decision tree, and other forms of machine learning, supervised, unsupervised, and semi-supervised, Reinforcement Learning for liver disease diagnosis offers different accuracy, precision, and sensitivity. This paper aims to provide a survey and comparative study of all machine learning techniques for diagnosis and

prediction of liver disease in the medical field that have already been used for liver disease forecasting by various authors, with the analysis focusing on Accuracy, Sensitivity, Precision, and Specificity.

Keywords- Liver diagnosis, Machine learning, Expert System, Artificial Intelligence

I. INTRODUCTION

According to the World Health Organization's most recent survey study, deaths due to liver disease account for 2.95 % of all deaths, and India ranks 63rd in the world [8]. The liver is the human body's largest internal organ. The liver is divided into two lobes: the left lobe and the right lobe. The liver weighs about 3 pounds [7] and is reddish-brown. Underneath the liver is the gallbladder. The liver's primary function is to eliminate poisonous and dangerous substances from the bloodstream until they are distributed to other areas of the body. Liver disease is often regarded as one of the world's most harmful and deadly diseases. [14]



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On Some Properties of Leibniz's Triangle

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Abstract One of the Greatest mathematicians of all time, Gotfried Leibniz, introduced amusing triangular array of numbers called Leibniz's Harmonic triangle similar to that of Pascal's triangle but with different properties. I had introduced entries of Leibniz's triangle through Beta Integrals. In this paper, I have proved that the Beta Integral assumption is exactly same as that of entries obtained through Pascal's triangle. The Beta Integral formulation leads us to establish several significant properties related to Leibniz's triangle in quite elegant way. I have shown that the sum of alternating terms in any row of Leibniz's triangle is either zero or a Harmonic number. A separate section is devoted in this paper to prove interesting results regarding centralized Leibniz's triangle numbers including obtaining a closed expression, the asymptotic behavior of successive centralized Leibniz's triangle numbers, connection between centralized Leibniz's triangle numbers and Catalan numbers as well as centralized binomial coefficients, convergence of series whose terms are centralized Leibniz's triangle numbers. All the results discussed in this section are new and proved for the first time. Finally, I have proved two exceedingly important theorems namely Infinite Hockey Stick theorem and Infinite Triangle Sum theorem. Though these two theorems were known in literature, the way of proving them using Beta Integral formulation is quite new and makes the proof short and elegant. Thus, by simple re-formulation of entries of Leibniz's triangle through Beta Integrals, I have proved existing as well as new theorems in much compact way. These ideas will throw a new light upon understanding the fabulous Leibniz's number triangle.

Keywords Leibniz's Triangle, Pascal's Triangle, Harmonic Numbers, Centralized Leibniz's Triangle

numbers, Inverted Infinite Hockey Stick Property, Infinite Triangle Sum Property

1. Introduction

The great German polymath Gotfried Wilhelm Leibniz, who was one of the discoverers of Calculus introduced a number triangle containing unit fractions which satisfy certain recurrence relation condition. Leibniz's triangle described by Leibniz in 1673 contains several interesting properties which were explored by many later mathematicians. During the time Leibniz introduced his harmonic triangle, another mathematician Pietro Mengoli discussed the same version of the triangle for finding quadratures(areas) of a semi-circles with different diameters. But Leibniz defined the elements of the triangle recursively and so the triangle got the name Leibniz's triangle. We may also call Leibniz's triangle as Harmonic Triangle as the outer diagonal of Leibniz's triangle are occupied by Harmonic numbers. In this paper, I will introduce the elements of Leibniz's triangle in a different perspective through Beta Integrals and discuss several properties through this new definition.

2. Definitions

2.1. The Beta Function denoted by $B(m, n)$ where $m, n > 0$ is Defined by the integral

$$B(m, n) = \int_0^1 x^{m-1} (1-x)^{n-1} dx$$

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Comparison of Machine Learning Techniques on Twitter Emotions Classification

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Abstract

Social media have become an essential part of our social life nowadays. A huge amount of user reviews and comments shared by the users on social media. Twitter has an excellent growth on social media, and also acts as a platform for business and news. Emotion mining aims to detect, recognize the types of feeling, analyze, and evaluate the human feelings towards any issues or events of their interest. This paper discusses the Twitter text classification using the various machine learning algorithms based on the emotions such as love, anger, anticipation, disgust, fear, joy, optimism, pessimism, sadness, surprise, trust, and neutral. The performance of the classifiers Random Forest, Logistic Regression and Stochastic Gradient Boost is analyzed and the results are being compared. The performance of the classification has been evaluated using TF-IDF, precision, recall, f-measure, and accuracy. From the experimental results, it is observed that Logistic Regression has outperformed by obtaining 77.65% of accuracy than Random Forest and Stochastic Gradient Boosting classifiers.

Keywords 1

Natural Language Processing, Machine Learning, Twitter, Emotions Classification, Logistic Regression, Random Forest, Stochastic Gradient Descent Boosting.

1. Introduction

Natural language processing is one of the interesting fields of data science. Machine learning is a subfield of Artificial Intelligence, and Machine Learning is the study of computer algorithms which allow computer programs to automatically improve through their experiences [19]. Machine learning models help us in multiple tasks such as Prediction, Classification, Clustering, Object Recognition, Summarization, and Recommender Systems. A machine classifies the spam mails (whether it is a spam or not), reviews (whether it is a positive or negative review), and a search engine which analyzes the user's type, based on their search queries [15].

Text mining is the part of data mining and text mining has several fields like information retrieval, text classification, machine learning, and natural language processing. Emotion mining is the science of detecting, analyzing, and evaluating humans' feelings towards different events, issues, services, and reviews of their interest. Text emotion mining, discusses about analyzing people's emotions based on observations of their text. Text emotion has many applications in routine life such as, customer care services, music and movies recommendations to users, selection of e-learning materials, filtering results of searches by emotion, and diagnosing depression or suicidal tendency [12]. Twitter is one of the most popular and successful platforms where people express their opinions and views about anything through short messages which are known as tweets [16]. Tweets are shown publicly on each user's page and

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Dusty Fluid Flow - Unsteady MHD with Two Parallel Plates with Heat and Mass Source

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Abstract. In dusty fluid flow, this paper analyses the composition of an unstable MHD with two parallel plates with heat and mass source transfer. By using the transformation of similarity, the differential equations of momentum and energy which will be of more than one variable is simplified into equations of single variable. Flow characteristics and characteristics of heat transfer for various control parameter values; viz. Analysis involves fluid velocity, dust phase velocity with corresponding heat and mass source parameters.

Keywords: Parallel plates, Heat sources, Mass sources, Dusty particles, Porous medium.

1. Introduction

In viscous flow the impact of dusty particles on is of huge significance in industries of petroleum and in crude oil refinement [1, 2]. As another major accomplishment in soil erosion it involves dusty particles with boundary layers by usual current of air during nuclear explosion and dust collection in a cloud. Flows of wide range of professional significance are available, such as fluidization flow in rocket tubes and further [3, 4]. Delhibabu (2020) discussed mathematical model for steady and unsteady MHD flow between two parallel plates and studied angular velocity [5, 6]. Kirubhashankar et.al (2020) discussed similar problem but by using homotopy method [7]. Prasannavenkatesh et.al (2017 & 2019) discussed MHD viscous stratified flow between parallel plates and rectangular channels [8, 9]. Girijabai et.al (2015) discussed the application in blood flow [10]. In the present study, for unstable MHD dusty fluid flow, a mathematical model between two parallel plates with mass and heat sources is examined. Obtaining the analytical expression for axial velocity, dust phase velocity, distribution of temperature and normal velocity are the objective of this work. To examine the effects of the magnetic field parameters of heat and mass sources are measured. Therefore, a common model of velocity specifically axial, distribution in temperature and natural flow velocity is presented by the existing mathematical model.

2. Problem Formation

In flow field at time t , along the orientation x (axial) velocity u is taken into account and in y (normal) direction velocity is considered as v . In the existence of transverse magnetic field we can describe the two-dimensional boundary layer equations as





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ARIMA based Time Series Analysis to Forecast Coronavirus (COVID-19) Disease

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Abstract: COVID-19, a novel coronavirus, is presently a major worldwide threat. It has infected more than a million people globally important to hundred-thousands of deaths. In such serious conditions, it is very important to predict the future infected cases to support the prevention of the disease and support in the healthcare service preparation. We have developed a model and then working it for forecasting future COVID-19 cases in Chennai, Tamil Nadu. This study indicates an ascending trend for the cases in the upcoming days. A time-series analysis similarly presents an exponential increase in the number of cases. It is supposed that the present prediction models will support the government and medical personnel to be prepared for the upcoming conditions.

Keywords: COVID-19, ARIMA models, exponential smoothing models, forecasting.

1. INTRODUCTION

Coronavirus disease 2019 (COVID-19) is an infectious disease affected by a new virus that has never been identified in humans before. This virus causes a respiratory illness with symptoms like cough, fever and in the most severe cases, pneumonia. The new COVID-19 is mostly spread through contact with an infected person after they cough or sneeze or through droplets of saliva or nasal secretions. The virus appeared for the first time on December 2019 in Wuhan, China^{1,11}.

COVID-19, generally known as Coronavirus, is a novel highly transmissible virus belonging to the *Coronaviridae* family that has been suspected to be transmitted to humans from animals. This virus causes mild to severe respiratory illness and death⁶. This pandemic has engulfed 185 countries/regions in merely four months infecting 1,949,210 people and taking the death toll to 123,348^{3,8}. However, the early cases show the infection is less severe as associated with other coronaviruses such as SARS-CoV (Severe Acute Respiratory Syndrome Corona Virus) and MERS-CoV (Middle East Respiratory Syndrome Corona Virus), the cases of rapid human to human transmission signify that COVID-19 is highly infectious than others⁴. Although a local seafood market in Wuhan is believed to be the source of exposure¹, the scope of incidence of this disease is not clear since its occurrence at present is so dynamic⁶. An apparent variation is present in epidemiological examinations and detection abilities performed by different countries for detecting infected cases⁵. Presently, the highest cases of COVID-19 infections have been reported in the US, however, the cases are abruptly rising in Spain, Italy, France and Germany daily³. China, the place of origin of the disease, is now receiving very few cases³. The first case of coronavirus infection in India was reported on 30 January 2020 in Kerala, which was an imported case from Wuhan city of China⁷. In the early stage, the spread was extremely slow and only 3 people were positive for more than a month. However, the numbers started rising exponentially after one month and continue to do so. The numbers in India have reached up to 10,453 for confirmed COVID-19 infected cases with 358 deaths and 1181 recoveries as reported on 13 April 2020³. In the present day, there is neither a treatment nor an injection for the COVID-19 infection. Presently, it is a major health disaster around the world and it would not be wrong to say that it is 'an enemy to humanity'. In this situation, the only decision is preventing the occurrence of infection and preparing our healthcare system for the possible up-comings.

In that situation, it is particularly critical to construct models that are computationally competent in addition to realistic so that they can help policymakers, medical personals and also the general public. Modelling the disease and providing a future forecast of the possible number of daily cases can assist the medical system in getting prepared for the new patients. The statistical prediction models are suitable in forecasting in addition to controlling the global epidemic threat.

We have a working Auto-Regressive Integrated Moving Average (ARIMA) model for predicting the incidence of COVID-19 disease. As compared to other prediction models, for occurrence support vector machine (SVM), wavelet neural network (WNN) and ARIMA model is more capable in the prediction of natural adversities¹⁰. For our study, we have recognized the best ARIMA model and then forecast the number the cases for the next 20 days. The main objective of this study is to find the best predictive model and apply it to forecast the upcoming incidence of COVID-19 cases in Chennai, Tamil Nadu.

2. MATERIAL

Confirmed, recovered and death cases of COVID-19 infection are collected for Chennai, Tamil Nadu, as per World Health Organization region classification, from the official website of www.stopcorono.tn.gov.in from 22 January 2021 to 23 April 2021. This data is used to build predictive models.

3. METHODS

For forecasting a time series, ARIMA modelling is one of the best modelling procedures. ARIMA models are always represented with the support of particular parameters and the model is expressed as ARIMA (p, d, q). Here, p stands for the order of auto-regression, d indicates the degree of trend difference though q is the order of moving average. We must apply the ARIMA model to the time series data of confirmed COVID-19 cases in Chennai, Tamil Nadu. The autocorrelation

LOCKDOWN IMPACTS

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LOCKDOWN IMPACTS

LOCKDOWN IMPACTS

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ABSTRACT

This paper reveals the impact of lockdown which was caused because of the wide spread disease, Corona virus. World Health Organization identified this disease on 31st December 2019 at Wuhan-China. The common symptoms of Covid-19 are fever, dry cough and fatigue. This disease affects people those who are having less immunity power. Some people are saved after treatment and some people dies because of that. Mostly old people were affected a lot. When the disease started spreading in India, lockdown was insisted by our Prime Minister for 21 days, in order to avoid the spreading of disease. By seeing the wide spreading of the disease, lockdown was extended up to the month of May, got relaxed from the month of June. But still Schools and Colleges were closed. Let us see the impacts caused by lockdown over various sectors.

INTRODUCTION

Lockdown was imposed in our country in order to avoid the wide spreading disease called Covid-19. It was the disease which increased the death rate in our country. Most of the affected people come under the age criteria above 60. Others even though infected, were recovered. In order to avoid the spreading of disease lockdown

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Artificial Intelligence in Human Resource Management Practices

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Abstract

As the world develops in its digital economy, every sphere of life is replaced by technology. Nowadays artificial intelligence techniques have applied in all fields of business. It has reflected potential growth in its approaches and operation. Since the HR department plays a vital role in recruiting, selecting and nurturing human resources in the organisation, it is inclined with the latest technology. The sum of technology advancements in the HR field is operating and serving employees with artificial intelligence techniques and making the process tranquil. This conceptual paper will detail applications on artificial intelligence in HRM practices.

Introduction

Artificial intelligence was discovered as an academic discipline in 1955, and in the years since has experienced several criticisms followed by disappointment such as cost factors, lack of infrastructure and ignorance of people. But now it has evolved with multi disciplinary approaches, tools and enhanced virtual environment everywhere. To reckon this HR re-engineered its approach, procedure and process which reduces time and other physical constraints for smooth functioning. In this era HR Experts play the facilitator's role in preparing instructions, expectations and specification which is required to manage human resources. With the result of this AI is replicating HR professionals' ideas, opinion, and intelligence in managing people.

Artificial Intelligence

Artificial intelligence is also called machine intelligence. Informations, intelligence and instructions are given to machine with the help of big data analytics. With the help of AI techniques, professionals make business operations easy and meet its motives, successful manner. It is a

**CERTAIN SUBCLASS OF MULTIVALENT FUNCTIONS WITH FINITELY
MANY FIXED COEFFICIENTS BY USING SALAGEAN DIFFERENTIAL
OPERATOR**K. Marimuthu, S. Mayilvaganan¹, and J. Uma

ABSTRACT. We investigate and study a subclass of analytic multivalent functions with finitely many fixed coefficients defined by using Salagean differential operator. Our main objective is to find coefficient estimates, closure theorems, integral operators and extreme points are applied to in this class.

1. INTRODUCTION

Denote $A_p(n)$ be the class of functions f of the form

$$(1.1) \quad f(z) = z^p + \sum_{k=n}^{\infty} a_{p+k} z^{p+k}, \quad (a_{p+k} \geq 0; p, n \in \mathbb{N}),$$

which are analytic and multivalent in the open unit disc $E = \{z : z \in \mathbb{C}, |z| < 1\}$.

We write $A_{(1,1)} = A$.

Let $S_p(n)$ denote the new subclass of $A_p(n)$, which also multivalent in E . T. Rosy [13] introduced the class $SD(\alpha)$, which was recently studied by S. Sunil Varma and T. Rosy [12], R. Ezhilarasi et al. [4], M. Shanthi and C. Selvaraj [11],

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Key words and phrases. multivalent, Salagean differential operator, starlike, convex

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Effect of Climate Factors on the Prevalence of Childhood Pneumonia

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Abstract

This study aimed to assess the association between climate factors and the prevalence of childhood pneumonia in the Southern District of Tamilnadu and to estimate the variability of the outcome size according to their geographic properties. The pneumonia prevalence in children under five years and meteorological factors were obtained from the Southern District of Tamilnadu, including monthly rainfall and the monthly average daily maximum temperatures during the period from 2015 to 2019. A generalized linear model and generalized additive model was applied to measure the effect size of local and regional climate factor. We identified the relationships between climate factors and the risk of childhood pneumonia. However, the outcome size and trend can be widely variable according to geographic features and local climate variables. It suggests that local health determinants may work as an effect modifier on the relationship of climate factors on the development of pneumonia.

Keywords: Pneumonia, rainfall, temperature, generalized linear model, generalized additive model.

1. Introduction

Changes in the earth's climate have been naturally occurring since the creation of the planet. A growing body of evidence is attributing some climate changes to human-made environmental pollutants. Climate is how temperature, precipitation, and wind characteristically prevail in a region over many years. Weather, on the state of the atmosphere (temperature, moisture, wind velocity and barometric pressure) at a specific time and place. Climate changes involve statistically significant changes in the mean state of the climate (temperature or amount of precipitation) or in its variability that persists over periods on the order of decades or longer, in other words, climate change is the long-term change in the average weather condition for a particular area.

Pneumonia is a major health problem worldwide and is one of the primary causes of death in children under five years of age [9]. Childhood pneumonia is common in tropical

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Production of an Ecofriendly Enzyme Biocleaner from Fruit Wastage

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Abstract - Enzyme biocleaners are an organic compounds which could be produced by fermentation process of fruit wastages by the addition of brown sugar and water in the presence of the selective microorganisms like Yeast and Bacteria. The present study was carried out for the production and analysis of enzyme bio-cleaners by using yeast and bacterial cultures in different fruit wastes, lemon collected from fresh Juice stalls in Chennai, Tamilnadu, India. The fruit wastes were analysed for its moisture content and biochemical parameters like reducing sugars, proteins, carbohydrate, pH, alcohol, acetic acid values after it being taken for fermentation. During fermentation, the enzyme production like protease, amylase, laccase, and cellulase were tested for it activity in fermented broth at different period of fermentation and found with moderate level of activity. The pH values and the microbial population including bacteria and yeast were also analysed in the fermented broth at different intervals. Our results have revealed that the produced biocleaner possess the properties as similar to enzymes and efficiently showed its activities against the hard stain and by dehairing mechanism. Therefore, our results may provide futuristic possible green approach for pollutant free earth.

Key words: Lemon, *Saccharomyces cerevisiae*, Enzyme, Proteins, Reducing sugar, Fermentation

I. INTRODUCTION

During the past few years, there has been serious public concern about the ecological problems arising from the use of synthetic cleaning agent which could release toxic chemicals to environment with drastic changes in the pH. However, the latest cleaning technologies include enzyme containing cleaning solutions are very effective, safe and specificity in activity and environmental friendly as well as cheaper preparation methods [1 & 2]. Enzyme Bio cleaners are an organic solution produced by the simple fermentation of fresh vegetable wastes, fruit wastes with addition of brown sugar and water by using the selective microorganisms like Yeast and Bacteria. As this method of fermentation creates natural chains of proteins, mineral salts organic acids, alcohol and enzymes. The obtained bioenzymes has the capacity to breakdown, change, create and catalyse functions that make it wonderful cleaning aid in household as well as in industrial and medical applications. The enzyme bio-cleaners are referred to natural green chemicals since they become a perfect future consumer preference for miscellaneous applications and sustainable environment.

Enzyme Bio- Cleaning solution is formulated specifically to dispose the dirt safely, economically and rapidly. It work quickly and efficiently to digest chemical and organic waste

synthetic cleaning solution with regard to biodegradability, low toxicity, non-Corrosiveness environment friendliness, enhanced cleaning properties as well as increased efficiency and stability in different environmental conditions are require to develop in future. This progressive eco-friendly cleaning items depends on Bio-Bacterial innovation. This innovation comprises of billions of friendly bacteria for biocleaner takes out the wellspring of cleaning issues as opposed to veiling them. Bio cleaner guarantees a natural approach to treat normal cleaning issues with no requirements for unforgiving chemical cleaners, making cleaning hones less difficult and greener. Therefore, the main objective of the present study is a production of enzyme bio-cleaning solution by ecofriendly without any environmental hazardous using waste raw materials like fruit wastes to produce potential bioenzymes solution.

II. Materials and Method

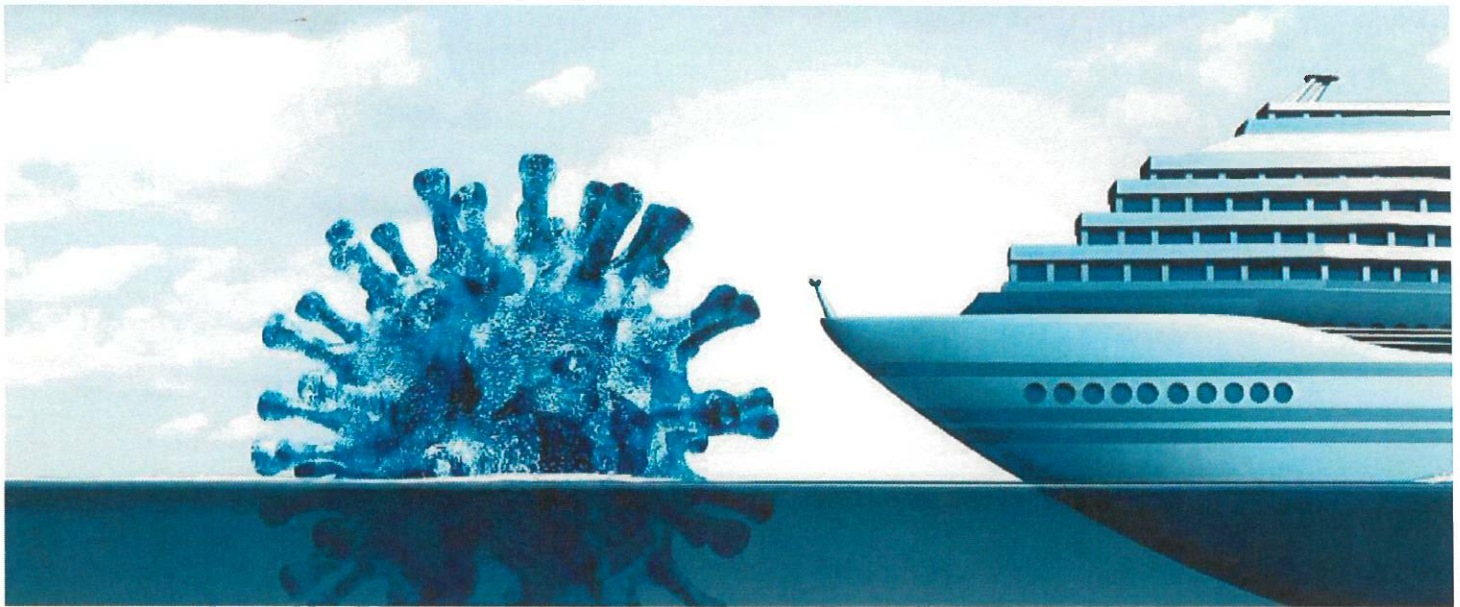
2.1 Isolation and identification of *Saccharomyces spp* from fruit sample:

2.1.1 Sample Collection and isolation of *Saccharomyces spp* from the sample

Grape Fruits were collected from fresh juice stall near Koyembedu, Chennai, Tamilnadu, India. The fruit wastes were washed, rinsed and cut into small pieces by using sterile knife. The fruits were washed, serially diluted and

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An Analytical Insight On Perceived Stress Among Indian Seafarers During Covid-19 Pandemic



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ABSTRACT:

The current pandemic of Coronavirus disease 2019 (COVID 19) caused undue stress and mental fatigue on individuals from all walks of life due to the highly contagious nature of the disease, increased morbidity and mortality in the world population, economic slowdown, travel restrictions and lockdowns imposed by most of the nations. The maritime sector in particular, not only had to deal with the inherent difficult operations, global activity, spread of communicable diseases but also cope with additional burden of seafarers being stranded both at workplaces as well as in their homes due to strict travel restrictions affecting their mental wellbeing. The seafarers are in general in a better mental framework to cope with uncertainties and emergencies at their workplace as compared to their onshore counterparts. The purpose of the present study is to measure and analyse the perception of degree of stress among Indian seafarers during this difficult pandemic time. This study includes a sample of 620 Indian seafarers who were sailing during this period. The study shows that the Indian seafarers have mostly low and moderate perceived stress scores indicating good stress coping strategies at workplace. The important attributes to low perceived stress scores among the seafarers were sound quality of sleep and good physical activity.

Keywords: Pandemic; Perceived Stress; Sleep quality; Physical activity.

INTRODUCTION:

Stress is a specific response by the body to a stimulus which can arise from both real and imagined situations. Those changes can be physical, mental or emotional, and can come from one's environment, body or thoughts. A stressor to one person may not be to another, which makes it subjective. It is a natural reaction and it is not necessarily a bad thing. Perceived stress is different, being complex and multidimensional.¹

It is more about one's feelings about the lack of control and unpredictability than the actual stressors. Perceived stress is the feelings or thoughts that an individual has about how much stress they are under at a given point in time or over a given time period. Perceived workplace stress can lead to anxiety, irritability, anger, lack of focus and motivation, fatigue, sleep disorders, substance abuse and depression². Some of these are direct effects of stress, and some are unhealthy coping

mechanisms. It is important then, to be aware of stress and keep it under control.

Seafaring is a global profession where a variety of professionals with unique responsibilities join and work together in a confined environment and are integral to the successful operation of a seafaring vessel. Seafaring primarily requires a tough physical and mental constitution. Earlier studies have shown that the seafarers were to be at least as healthy as or healthier than



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Electrochemical investigation of magnesium zinc borates for micro capacitors applications

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Abstract

Binary metal nano composite particles of magnesium-zinc were prepared by solid state reaction method. The composites (MgZnNP) $Mg_{2.9}Zn_{0.1}(BO_3)_2$ and $Mg_{2.7}Zn_{0.3}(BO_3)_2$ nanoparticles synthesized vary in the stoichiometric ratio of the two metals which are established from analytical techniques. The crystal structures and phase purities of MgZnNPs were characterized by powder x-ray diffraction which confirmed the existence of a mixed phase of monoclinic and triclinic structure. The average crystallite size of the composite material was obtained from Williamson Hall plot. The lattice vibration studies were carried out at (FTIR) at room temperature clearly authenticates the existence of Zn^{2+} ions occupying the lattice of Mg^{2+} resulting in a mixed phase. To the best of our knowledge, electrochemical investigation on magnesium borates for energy storage application has been less reported in the literature and the insertion of zinc in magnesium borate lattice provides a significant advantage over the electrochemical property of MgZnNP borates. Further, electrochemical studies of MgZnNPs were studied in two electrode system in 1.0 M Na_2SO_4 . The specific capacitance of $Mg_{2.7}Zn_{0.3}(BO_3)_2$ was found to be 10250 mF/g which is around in a tenfold increase in efficiency of $Mg_{2.9}Zn_{0.1}(BO_3)_2$. This clearly establishes the ratio of zinc doped in magnesium influences the material characteristics and electrochemical properties.

Keywords: Magnesium Zinc borates, XRD, Williamson hall plot, FTIR, Specific capacitance, microcapacitors



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Electrochemical investigation of acridinedione dyes with water soluble non-fluorophoric amino acids

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Abstract

A detailed electrochemical study of the resorcinol based acridinedione dye interaction with non fluorophoric water soluble amino acids like glycine, alanine and valine were carried out reported. Acridinedione dyes are classified into photoinduced electron transfer (PET) and non-PET based wherein the electrochemical, photophysical and photochemical behaviour vary significantly. The electrochemical studies were carried out for ADR1 (PET based) and ADR2 (non-PET based) in the presence of amino acids to explore their ground state electrochemical interaction that support the photophysical behaviour of these dyes. Addition of glycine to ADR1 enhanced the fluorescence quantum yield of ADR1 whereas a quenching behaviour was observed in ADR3. The electrochemical interaction of glycine with ADR1 and ADR3 resulted in a shift of the oxidation peak to a less positive potential and the reduction peak to less negative potential, establishing a hydrogen-bonding interaction. The extent of shift of the oxidation and reduction peak in ADR1 is larger when compared to that of ADR3. The variation in the peak shift is attributed to the presence of an electron donating moiety (OCH₃) group in the 9th position of ADR1 dye. Consequently, the quenching of fluorescence is observed in ADR3 with non fluorophoric amino acids is authenticated by the shift of the anodic and cathodic peaks towards a lesser positive potential indicating an electrostatic interaction which is more predominantly existing in the aqueous phase.

Keywords

Acridinedione dyes; photoinduced electron transfer; non-fluorophoric amino acids; reverse peak; hydrogen-bonding; electrostatic interaction.



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Comparitive synthesis and characterization of $Zn_{1-x}Cu_xWO_4$ by solid state metathetic approach and by solgel method.

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Abstract

The present study compares the synthesis route of doped and undoped wolframite type $Zn_{1-x}Cu_xWO_4$ by solid state metathetic approach and by solgel method. The structure, morphology, surface area and pore distribution were characterized and their optical performances were investigated. The structural characterization done by XRD revealed the monoclinic structure of $Zn_{1-x}Cu_xWO_4$. The SEM micrograph confirms particles are in rod like morphology. The characteristic vibrational modes were analyzed by FTIR. Raman spectrum confirms the presence of active modes in undoped and Cu-doped $Zn_{1-x}Cu_xWO_4$.

Keywords: Metal tungstates; solid state metathetic approach; solgel method; XRD; FTIR and Raman spectroscopy.



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Corporate Governance in India – Concept, Compliance and the way forward

Good Corporate Governance aims at the protection of stakeholder's interests and enhances the wealth and value of the organisation concerned. It promotes efficiency, effectiveness, transparency, accountability, responsibility and enforceability of better practices in the corporate world that would promote the best possible branding in the minds of the investors. The board of directors and the management is vested with the formulation, implementation and adoption of sound Corporate Governance [CG] practices. Such CG practices shall strive to fulfil the expectations of all stakeholders concerned. While the CG practices aim at compliance with laws and regulations, in the long run this shall pave way for effective ethical compliance in all aspects thus helping to become a socially and ethically responsible citizen in the corporate world.



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BACKGROUND

Corporate Governance is a system of management's accountability towards the stakeholders for all their morals, ethics, values, parameters, conduct and behaviour. The principles of Corporate Governance revolve around a quadrangular structural segment integrating fairness, transparency, accountability and responsibility. It involves a long-term functional and business relationship in the corporate activities.

* Vice President, The Institute of Cost Accountants of India

Figure 1: Pillars of Corporate Governance



Source: Conceptualized by Author

CHANGING DIMENSIONS FROM “COMPLIANCE” TO “COMPETITIVE ADVANTAGE”

Good Corporate Governance is a key driver of sustainable growth and long-term value and wealth creation. Effective Corporate Governance practices present opportunities to manage risks and add value to business operations thereby these practices are rightly viewed as a differentiator in promoting sustainable competitive advantage. An increasing amount of empirical evidence throws into light that good corporate governance contributes to competitiveness and long-term value creation. Corporate Governance rating is positively associated with financial performance measures like Tobin's Q.

The level of Corporate Governance practices implemented by regulators' focus on “Compliance” with the set of rules and regulations prescribed in the statutes. In sum and substance the focus should strive beyond what is currently required by statutes and regulators. Introspection should be conducted with the reasonable question “What does the company stand to gain through an enhanced level of corporate governance?”. It is to be concluded that enhanced competitive advantage and better economies of scale and operations should be the only result of such effective and enhanced Corporate Governance practices in terms of:



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Astronomy in Sanskrit

Dr. B. Keshavaprapanna pandey

ABSTRACT:

Our Indian astronomical knowledge of our ancestors is beyond the ocean as well as depth like an ocean. In this article we have just gone through very tiny drop of the ocean. The universe has no boundaries. The universe involves many mysteries. No one knows where it starts and ends. It is undetectable. There are millions of planets and galaxies in the universe which cannot be countable.

By the way our galaxy's name is Milky Way. In this Milky Way only our solar system is located. There are innumerable number of planets, moon, comets etc, are located in this Milky Way. Like our milky way other galaxies in the universe also have many planets, moons, comets, ring Planet and many suns.

In this article, we have seen solar energy which is said in Taittiriyāranyaka, planetary motion given by the great scholar Āryabhatta. We have also seen the causes of eclipse and comets occur to the sky. There are lot of things about astronomy having in our Vedas, vānashastras, etc; in the glorious Sanskrit language. We have briefly seen the astronomical topics in this article. Let us worship our ancestors who gave this these granthās and made our Indian nation so proud.

INTRODOCTION:

Sanskrit is an ancient language of India. It is also known as Devabhasha . Not only just a language, it also contains many Treasures within itself. Apart from the literature it includes Science, Mathematics, politics, law, culture, architecture, computers, agriculture, yoga, medicine, astronomy, etc. It is an ocean of many things. It is the voice of India's soul and wisdom. Most of the Indian languages have more than 60% of Sanskrit words. In this paper, letus know the astronomical facts which have been told in Sanskrit granthas especially in Vedas.

Solar energy :

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Abstract and content (in 500 words)

The article explains about the Philosophy of Visitadvaita Vedanta based on the text Sribhashya written by Ramanujacarya. The second adhyaya is also known as avirodhadhyaya on that second pada deals with parapaksha pratikshepa in which this topic was discussed.

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श्रीभाष्ये जैनमतनिरासः

Dr. V. Balaji

सारांशः

भगवान् पाराशर्यः स्वेनैव व्यस्तानां वेदानां, तदन्ततया प्रसिद्धानां उपनिषदाश्च सारभूतं गूढतमं सर्वैरवश्यवेद्यञ्चाध्यात्मशास्त्रं सूत्ररूपेण प्रपञ्च्य बहूपचकार। यत्र चतूर्णामध्यायानां नामानि क्रमेणोल्लसन्ति - समन्वयाध्यायः, अविरोधाध्यायः साधना- ध्यायः, फलाध्यायः इति। प्रत्यध्यायं पादचतुष्कमित्याहृत्य ब्रह्मसूत्रनाम्ना सुप्रसिद्धे ग्रन्थे षोडशपादाः संप्रकाशन्ते। यस्य च ग्रन्थस्य श्रीविशिष्टाद्वैतसिद्धान्तानुसारं भगवद्रामानुजाचार्यः श्रीभाष्याख्यं भाष्यरत्नं विरचयामास। न तु आचार्यैः नूतनतयास्य सिद्धान्तस्य स्थापनं कृतं, ततः पूर्वमेव द्रमिडकुहदेवबोधायणयामुनाचार्यप्रभृतिभिः सिद्धान्तस्यास्य ये विषयाः समुद्भूताः आसन्, ते सर्वेऽपि भगवद्भाष्यकारेण क्रोडीकृत्य व्यासाचार्यप्रणीतब्रह्मसूत्राणां श्रीविशिष्टाद्वैतसिद्धान्तानुसारं व्याख्यानं व्यलेखि। तत्र प्रथमे समन्वयाध्याये जगत्कारणभूतं, शास्त्रैकसमधिगम्यं, सर्वान्तर्यामि, अक्षरशब्दवाच्यं, अदनीयत्वादि गुणैः समलङ्कृतञ्च ब्रह्म जिज्ञास्यमिति प्रपञ्चितम्। ततः द्वितीये अविरोधाध्याये न्यायाद्यास्तिकदर्शनानां, बौद्धाद्यास्तिकेतरदर्शनानाञ्च खण्डनं कृत्वा स्वमतस्थापनं कृतम्। ततः तृतीये साधनाध्याये परमप्राप्यस्य ब्रह्मणः निरस्तनिखिलदोषसमस्तकल्याणगुणाकरत्वञ्चेत्यु- भयलिङ्गत्वं सन्निरूप्य, तस्यैव सर्वफलप्रदत्वञ्च प्रतिपाद्य, प्राप्योपयोगिविषयाः उपस्थापिताः सन्ति। ततः फलाध्याये उक्तसाधनानुष्ठातारः कथं परमपुरुषार्थं मोक्षं प्राप्नुवन्ति, देवयानपितृयानमार्गप्रक्रिया, मुक्तलक्षणं, मुक्तस्य परमपुरुषसाम्यत्वादयो विषयाः दृढं प्रस्थापिताः वर्तन्ते। षोडशपादेषु षष्ठः तर्काख्यः अविरोधाध्यायस्य परपक्षनिराकरणपूर्वकस्वमतस्थापनविषयात्मकः पादः समुल्लसति, तेषु जैनमतनिरसनपरं (एकस्मिन्नसंभवाधिकरणम्) शोधपत्रेऽस्मिन् विमर्शनपथं समारोपितः

भगवान् पाराशर्यः स्वेनैव व्यस्तानां वेदानां, तदन्ततया प्रसिद्धानां उपनिषदाश्च सारभूतं गूढतमं सर्वैरवश्यवेद्यञ्चाध्यात्मशास्त्रं सूत्ररूपेण प्रपञ्च्य बहूपचकार। यत्र चतूर्णामध्यायानां नामानि क्रमेणोल्लसन्ति - समन्वयाध्यायः, अविरोधाध्यायः साधना- ध्यायः, फलाध्यायः इति। प्रत्यध्यायं पादचतुष्कमित्याहृत्य ब्रह्मसूत्रनाम्ना सुप्रसिद्धे ग्रन्थे षोडशपादाः संप्रकाशन्ते। यस्य च ग्रन्थस्य श्रीविशिष्टाद्वैतसिद्धान्तानुसारं भगवद्रामानुजाचार्यः श्रीभाष्याख्यं भाष्यरत्नं विरचयामास। न तु आचार्यैः नूतनतयास्य सिद्धान्तस्य स्थापनं कृतं, ततः पूर्वमेव द्रमिडकुहदेवबोधायणयामुनाचार्यप्रभृतिभिः सिद्धान्तस्यास्य ये विषयाः समुद्भूताः आसन्, ते सर्वेऽपि भगवद्भाष्यकारेण क्रोडीकृत्य व्यासाचार्यप्रणीतब्रह्मसूत्राणां श्रीविशिष्टाद्वैतसिद्धान्तानुसारं व्याख्यानं व्यलेखि। तत्र प्रथमे

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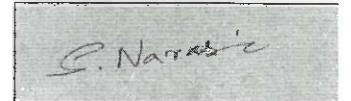
Abstract and content (in 500 words)

This article explains the significance of introducing Yoga properly from childhood life. As there are lot of wrong and improper understanding about the Yogic system, this article shows light on the basics of Yoga and all the important components of Yoga.

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योगम् अवगच्छामः

Dr. S.Narasimhan

“योगेन चित्तस्य पदेन वाचा मलं शरीरस्य च वैद्यकेन।

योपाकरोत्तं प्रवरं मुनीनां पतञ्जलिं प्राञ्जलिरानतोऽस्मि॥”¹

विश्वप्रसिद्धयोगशास्त्रस्य प्रचारः अधुना अनेकैः प्रकारैः समग्रभारतदेशे तथा विश्वे च क्रियमाणोऽस्ति, विशिष्य प्रधानमन्त्रिणः विश्वयोगान्दोलनानन्तरम्। भारतदेशस्य प्रति प्रान्ते अनेकानि प्रसिद्धयोगकेन्द्राणि, विद्यालयाश्च तदा तदा कार्यक्रमान् सञ्चाल्य प्रोत्साहयन्ति अनेकान्। परम् अस्माकं पूर्वजैः ऋषिभिः अथवा योगिभिः प्रदर्शितस्य योगमार्गस्य वास्तविकं लक्ष्यं जनाः किं संयक् अवगतवन्तः, किमेतैः योगकेन्द्रसञ्चालकैः समाजस्य स्थित्यनुगुणमेव वा पाठ्यते उत लाभदृष्ट्यैव इति प्रश्ने उदिते, न इत्येव वक्तव्यं भवति। कारणं योगस्य प्रचारः अत्यधिकतया बाह्येन्द्रियसंरक्षणं केन्द्रीकृत्यैव अनेकत्र भवतीत्यतः। मनसः शरीरस्य च मध्ये अविनाभावसम्बन्धः सर्वथा वर्तत इत्यतः द्वयोः संरक्षणार्थं प्राधान्यं दत्त्वा, तयोः द्वयोरपि संयक् निर्वहणमेव लाभदायी। समुदाये पश्यामश्चेत् अधिकाः जनाः एकाधिकयोगकेन्द्रेषु प्रविष्टा अपि स्वाभीष्टं फलं प्राप्तुं न शक्नुवन्ति इत्येतदेव प्रमाणमत्र। अधिकानां मनसि योग इत्युक्ते आसनानां चित्राणि एव मनसि आगच्छन्ति। इतरेषां मनसि तु रोगदूरीकरणोपयोगी इति। तादृशः प्रचारः कृतोऽस्ति प्रचारकैः। तादृशप्रचारं कुर्वाणाः किं कुर्वन्तीत्युक्ते, योगाभ्यासान् इतरव्यायामप्रकारमिव स्वाभिलाषानुगुणं परिवर्त्य पाठयन्तः, कथञ्चित् जनान् स्ववशीकर्तुमेव यतमानाः लाभचिन्तनमेव लक्ष्यं स्थापयित्वा व्यवहरन्ति। समस्यानिवारणार्थम् आगच्छतामज्ञता अपि अत्र ध्येया। योगस्य कुतश्चित् कथञ्चिदभ्यासः हानिकर एव।

विद्यालयेषु योगस्य स्थानकल्पनम्

योगस्य पाठनं कथं आरम्भस्तरे विद्यालयेषु भवतीति पश्यामः। विद्यालयेषु योगः अनिवार्यतया पाठ्यते चेदपि अधिकेषु स्थानेषु छात्रेभ्यः स्पर्धार्थं वा अथवा सामान्यव्यायामप्रकारेण वा एव पाठ्यते। स्पर्धासु छात्राणां भागस्वीकरणं, इतरविषय इव योगस्यापि पाठनं, वार्षिककलाप्रदर्शनसन्दर्भार्थमेव छात्रोपयोगः, सामान्यव्यायामप्रक्रियामध्यमेन योगस्य स्वीकारः इत्याद्यनेके अंशाः बाधकाः सन्ति इदानीम्। छात्राणां अध्ययनविषये तथा इतरविषयेषु च दक्षतावर्धनार्थं किं योगः पाठ्यते वा इति प्रश्नः अवश्यं प्रष्टव्य एव। नो चेत् अस्माभिः तदर्थम् अवश्यं प्रयत्नः करणीय एव।

योगः कर्मसु कौशलं?

~104~

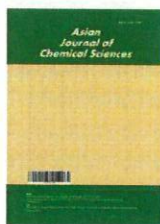
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Crystal Growth and Structure Determination of a Newly Synthesised Chalcone Derivative with Hirshfeld Surface Analysis and Energy Frame Work: (2e,4e)-5-(4-(Dimethylamino)Phenyl)-1-(Naphthalen-2-Yl)Penta-2,4-Dien-1-One

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Authors' contributions

This work was carried out in collaboration among all authors. Author MKP helped in conceptualization, software analysis, data Validation, wrote original draft of the manuscript. Author DRJ performed Methodology. Author KB performed data validation. Authors DAS and KL wrote and edited the manuscript. Author JH performed data validation. Author GU performed validation of data, data curation and supervised the study. All authors read and approved the final manuscript.

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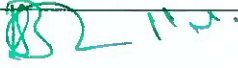
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ABSTRACT

A new chalcone derivative (2E, 4E)-5-(4-(dimethylamino) phenyl)-1-(naphthalen-2-yl) penta-2,4-dien-1-one (DPNP) has been synthesized using Claisen-Schmidt condensation reaction using the slow evaporation method at ambient temperature. The 3D crystal structure was solved using the

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Renal Parameters in Diabetes with Different Age Groups

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Abstract

Diabetes mellitus is a common cause of pyelonephritis. Glucose in the bloodstream stimulates the pancreas to produce insulin. Insulin helps glucose to move from the blood into the cells. Once inside the cells, glucose is converted to energy, which is used immediately, or the glucose is stored as fat or the starch glycogen until it is needed. Diabetic nephropathy affects your kidneys' ability to do their usual work of removing waste products and extra fluid from your body. The best way to prevent or delay diabetic nephropathy is by maintaining a healthy lifestyle and treating your diabetes and high blood pressure. Chronic kidney disease is a collective clinical problem in aging patients and is linked with increased morbidity and mortality. The exact reason this occurs in people with diabetes is unknown, but high blood sugar levels and high blood pressure are thought to contribute to diabetic nephropathy. Persistently high blood sugar or

blood pressure levels are two things that can damage your kidneys, making them unable to filter waste and remove water from your body. Understanding the link between kidney and visual disease can lead to the development of new treatment and screening strategies for diabetes.

Keywords: Diabetes mellitus, Glucose, Insulin, Nephropathy, Chronic kidney disease.

Introduction

Diabetes mellitus has become a major health catastrophe of great magnitude and a major public health concern. Studies have demonstrated that diabetes affects upto 10% of the total population in several countries. This rate may be doubled, if those with impaired glucose tolerance (IGT) are also considered (Gillies, 2007). The manifestations of diabetes mellitus can cause extensive human sufferings and a huge economic burden. The increase in the number of people with diabetes in association with a longer duration of diabetes alters the disease profile in many

Review Article

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Biomedical Applications of Chitosan and its Derivatives - A Review

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ABSTRACT

Chitosan is a deacetylated compound of chitin which is a polysaccharide extracted from the shells of crustaceans, molluscs, fungi and other organisms. Chitosan is made up of copolymers containing glucosamine and N acetylglucosamine. They are derived by three methods from chitin viz, deproteination, demineralization and deacetylation. It is a basic polysaccharide and has several advantages such as photoelectric behaviour, ability to form films, metal chelation, optical and structural characteristics. These abilities of chitosan made them a perfect candidate for various applications. Chitosan is used in various fields such as cosmetics, agriculture, food, paper industry and also in fabrics. Besides these, they are widely used in biomedical applications due to its flexibility to be moulded into any shapes and more importantly its non toxic nature. In the field of biomedicine, Chitosan are known for their best anti microbial, anti oxidant, anti cancer and wound healing abilities and it is also used as drug delivery systems for treating several diseases. The present review deals with the biomedical applications of chitosan.

Keywords

Antimicrobial activity, Chitin, Chitosan, Drug targeting, Wound healing

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Introduction

Chitin is the second most extensively spread natural polysaccharides on earth and it is made of β (1 \rightarrow 4) linked 2-acetamido-2-deoxy β -D-Glucose. Though chitin is not produced in

organisms containing cellulose, it is considered as a cellulose derivative since it resembles structure of cellulose with an exceptional acetamide groups at C2 positions (Dutta *et al.*, 2003). The N deacetylation of this chitin at varying extent results in the



(RESEARCH ARTICLE)



Troponin -T as a prognostic and diagnostic marker for myocardial infarction

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Abstract

Over the past decade, there has been a progressive evolution of cardiac marker testing in patients with acute coronary syndromes. Myocardial infarction (MI) is the leading cause of death in the developed world. Biomarkers have an vital role in analysis, risk stratification, administrative running and medical assessment making in the setting of patients presenting with signs and symptoms of MI. Cardiac troponin (cTn) rose to prominence during the 1990s and has evolved to be the cornerstone for diagnosis of MI. Cardiac troponins are released from myocytes following myocardial damage and loss of membrane integrity. Troponin T are member of a group of cardiac regulatory proteins which function to regulate the calcium mediated interaction of muscle filaments actin and myosin resulting in contraction and relaxation of striated muscle. New algorithms integrating Brain natriuretic peptide (BNP), NT-proBNP, and more sensitive cTn assays footing potential for more rapid diagnosis of MI, allowing for appropriate management steps to be initiated and more efficient and effective utilization of healthcare resources.

Keywords: Myocardial infarction; Biomarkers; Troponin; Brain natriuretic peptide; Cardiac troponin

1. Introduction

Coronary artery disease remains the leading cause of mortality in the western world. Atherosclerosis is the major cause of coronary heart disease. The atherogenic process is far advanced by the time the clinical manifestation of coronary heart disease develops which includes sudden cardiac death¹. Coronary heart disease and its major manifestations myocardial infarction, which in turn results when blood supply is so much deprived sufficient to cause focal or massive necrosis of cardiac muscle was a medical rarity prior to first World War². WHO has declared CVD as a modern epidemic? MI is myocardial necrosis occurring as a result of critical imbalance between coronary blood supply and myocardial demand. Myocardial infarction is the "impairment of heart function due to inadequate blood flow to the heart compared to its need, caused by obstructive changes in the coronary circulation to the heart". In more than 90% of cases, the cause of myocardial ischemia is reduced blood flow due to obstructive atherosclerotic plaque lesions in one of the three large coronary arteries or its branches³.

The possibility of suffering acute myocardial infarction in 40-60years age group is 8times higher than in people of a less advanced age. More than 50% of in hospital mortality from acute myocardial infarction occurs in subjects older than 65 years⁴. Elderly patients with acute myocardial infarction have been reported to present with more atypical symptoms like atypical chest pain, dyspnea, and giddiness and also have highest rate of complication like CCF, cardio genic shock, arrhythmias with higher mortality. They are treated less aggressively than the younger^{5, 6, 7, 8, 9}.

Modifiable risk factors are serum lipids, lipoproteins, Hypertension (HTN), Diabetes

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A Study of Vitamin-D and Biochemical Changes in Breast Cancer

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Abstract: Breast cancer is the most common lethal cancer in women and the second most common among women worldwide. chemical carcinogen which interacts with membrane lipids, proteins, DNA and consequently induces free radical production. Cancer cell show various degree of differentiation, and there, normally is an inverse relation between the degree of cell differentiation and clinical aggressiveness of a cancer. To evaluate the antioxidants like both enzymatic and non-enzymatic levels in control and breast cancer patients, the Vitamin D in control and Breast cancer patients. Enzymic and nonenzymic antioxidants were examined. The activities of marker enzymes to confirm Breast cancer and the activity of Vitamin D were analyzed. The level of Vitamin D was found to be decreased in breast cancer patients. A decrease in the levels of enzymic antioxidants such as SOD, CAT, GPx, GR and nonenzymic antioxidants such as glutathione, vitamin C and vitamin E were observed in breast cancer patients. Carcino embryonic antigen is a marker of breast cancer were elevated in breast cancer patients.

Keywords: Antioxidant, vitamin, glutathione and carcinogen.

INTRODUCTION

Cancer is a group of more than hundred diseases that develop across time characterized by varying degree of morphological disorientation, reduced control over growth and function through invasive growth and metastasis. This uncontrolled division can compromise the function of the host and ultimately may cause death. The description of cancer as a hundred diseases arises from the observation that cancer can appear as a result of different causes which can be hereditary or environmental factors in a variety of sites within the body and that each type of cancer displays its own growth rate, prognosis and treatability.

An essential feature of malignancy is that the malignant phenotype is passed on from the parent to the daughter cell. This suggests that the fundamental lesion of malignancy resides in the DNA. Cancer is caused by multiple irreversible mutations in genes critical for cell growth (Evan and Vousden 2001). Since the DNA repair network plays a key role in faithful maintenance of the genome, inherited or acquired abrogation of its function is detrimental and potentiates increased genome instability leading to cancer (Schar, 2001). Although mammalian cells are richly endowed with both efficient DNA repair and free radical scavenging system it is probable that some DNA lesion generated via intrinsic and extrinsic mutagenesis would escape these DNA "surveillance" processes and constitute an early step in human carcinogenesis (Ahuja and Rajeshwari, 2003).

Breast cancer is a malignant tumor, which is a group of cancerous cells that grow into other areas around it. Breast cancer starts in the cells of the breast, but can spread to other areas of the body, which is called metastasizing. Tumors are made when there is a buildup of unneeded, old, or damaged cells and they form a mass, which then becomes a tumor. The most common type of breast cancer starts in cells in the breast ducts. Breast ducts are the tubes that carry breast milk.



Effect of smoking in cardiovascular diseases and in diabetes

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Abstract

Smoking increases blood pressure; decreases exercise tolerance and increase the tendency for blood to clot. Smoking decreases HDL. Smokers are insulin resistance exhibit several aspects of the insulin resistance syndrome, and are at an increased risk for type - II diabetes. In diabetic patients, smoking also promotes the development and progression of diabetic macro vascular diseases, particularly *diabetic nephropathy*. Estimation of Glucose, cholesterol HDL-cholesterol, triglycerides, urea, creatinine and uric acid Hence the results of our present study clearly demonstrates that, diabetic smokers are at a higher risk of developing deleterious complications such as ischaemic heart disease and renal dysfunctions in comparison with the diabetic non-smokers.

Keywords: cholesterol, diabetes, creatinine, uric acid and insulin

Introduction

Smoking is alert an main “risk factor” for arterial hypertension and diabetes management, according to, respectively, the current guidelines of the European Society of Hypertension and the European Society of Cardiology on the management of arterial hypertension [1]. Diabetes advises a considerably improved risk of coronary heart disease (CHD), especially among women. Cigarette smoking is strongly associated with an increased risk of CHD among women with type 2 diabetes mellitus [2].

Diabetes mellitus refers to the group of diseases that the lead to high blood glucose levels due to defects in either insulin secretion or insulin action in the body [3]. Diabetes develops due to a diminished production of insulin (in type 1) or resistance to its effects (in type 2 and gestational) both led to hyperglycemia, which largely causes the acute signs of diabetes: excessive urine production, resulting compensatory thirst and increased fluid intake, blurred vision, unexplained weight loss [4]. In the developed world, diabetes is the most significant cause of adult blindness in the non-elderly and the leading cause of non-traumatic amputation in adults, and diabetic nephropathy is the main illness requiring renal dialysis.

The World Health Organization projects that the number of diabetics will exceed 350 million by 2030. Governments and other healthcare providers around the world are investing in health education, diagnosis and treatments for this chronic, debilitating – but controllable – disorder. The term “type 1 diabetes” has universally replaced several former terms, including childhood-onset diabetes, juvenile diabetes, and insulin-dependent diabetes (IDDM). Likewise, the term “type 2 diabetes” has replaced several former terms, including adult onset diabetes, obesity-related diabetes, and non-insulin-dependent diabetes (NIDDM) [5-11]. Beyond these two types, there is no agreed-upon standard nomenclature. Various sources have define “type 3 diabetes” as, among others, gestational diabetes, insulin-resistant type 1 diabetes (or “double diabetes”), type 2 diabetes which has progressed to require injected insulin, and latent autoimmune diabetes of adults (or IADA or “type 1.5” diabetes). Gestational

diabetes is fully treatable but requires careful medical supervision throughout the pregnancy. About 20%-50% of affected women develop type 2 diabetes later in life. Many patients with type 1 and type 2 diabetes mellitus are at risk for diabetic nephropathy, retinopathy, and neuropathy, probably via its metabolic effects in combination with increased inflammation and endothelial dysfunction. This association is strongest in type 1 diabetic patients [12, 13].

Materials and Methods

Experimental Design

Group I: Normal healthy individuals.

Group II: Non-Smokers with diabetes.

Group III: Smokers with diabetes.

Each group comprising of 10 volunteers, with the age group of 30 – 60

Biochemical studies

Glucose in the blood was estimated by GOD/POD method, estimation of cholesterol-Zak’s method, estimation of HDL-cholesterol, estimation of triglycerides, estimation of urea by Diacetyl monoxime method, estimation of Creatinine by Jaffe’s method and estimation of uric acid - (Phosphotungstic acid method)


Statistical Analysis

All the grouped data were significantly evaluated with SPSS/10 software. Hypothesis testing methods included one way analysis of variance (ANOVA) followed by least significant difference [LSD] test. *p* values of less than 0.05 were considered to indicate statistical significance. All the results were expressed as mean ± S.D for 10 volunteers in each group.

Results and Discussion

Blood Glucose Levels in Normal and Gestational Condition

Hyperglycemia is the commonest feature of Diabetes mellitus and hence monitoring blood glucose levels during diabetic


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Bernoulli Polynomials and Ramanujan Summation



R. Sivaraman

Abstract The concept of Bernoulli numbers has appeared in several counting problems in mathematics. Bernoulli numbers are vastly used in many mathematical problems, especially dealing with Riemann zeta function, as Leonhard Euler in the eighteenth century, proved that the zeta function values for positive even integers are connected to even subscript Bernoulli numbers. As a natural generalization of Bernoulli numbers, we discuss Bernoulli polynomials. Bernoulli numbers occur as constant terms of the respective Bernoulli polynomials. This paper introduces the concept of Bernoulli numbers and Bernoulli polynomials and discusses few properties concerning them. In Sect. 2.1, the relation between successive Bernoulli numbers is obtained. This will help us in generating successive Bernoulli numbers from the initial Bernoulli number $B_0 = 1$. Using these Bernoulli numbers, we obtain a nice formula for generating successive Bernoulli polynomials in Sect. 3.1. In Sect. 4.1, the concept that the Bernoulli numbers are obtained by corresponding polynomials of Bernoulli at $t = 1$ has been established. Finally, in Sect. 5.1, the connection between Riemann zeta function and Bernoulli polynomials has been proved. Further, five figures are included to justify the truth of Sect. 4.1. The main focus of this paper is to establish the relation between Bernoulli polynomials and Ramanujan Summation.

Keywords Bernoulli numbers · Bernoulli polynomials · Cauchy product · Riemann zeta function · Ramanujan summation

1 Introduction

The idea of various types of summation methods has been a key point of study for nearly three centuries now. Mathematicians like Nicole Oresme, Guido Grandi, Jacob Bernoulli, Leonhard Euler, Ernesto Cesaro investigated several types of series of real numbers and had provided plenty of ways to sum a given series whose terms are real numbers. In particular, Italian mathematician Ernesto Cesaro found a clever method

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**“A STUDY ON CUSTOMER PERCEPTION TOWARDS SERVICE
RENDERED BY JIO MART WITH SPECIAL REFERENCE TO
CHENNAI CITY”**

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Abstract:

In India market dealing with the grocery and essentials has been witnessing a dynamic shift of manually intensive based service to the digital technology based service which ensures arrival of online grocery and essential delivery platform like JioMart, BigBasket. A success of any e-delivery platform depends on well-designed services with its proper implementation. This paper attempts to examine opportunities availed and challenges faced by customer on usage of JioMart.

Key Words: online grocery and essential delivery platform,JioMart, opportunities and challenges.

1.1 INTRODUCTION

In order to meet dynamic trend prevailing in the market related to the grocery and essentials, the seller uses E-commerce platform which enable them to establish their trade and tend to capture more customer. Jio Mart is one of the e-commerce platform specializes in dealing with online grocery launched on December 2019 based on online to offline business model. This venture ensures an effect over the national income of India by providing opportunity to 30 million small scale merchant all over India by connecting physical market to the customers.

There are various e-commerce platforms specialized in dealing with grocery and essentials like Big Basket, Dunzo, Jio mart etc but a well-designed services with proper implementation ensures more customer satisfaction that in turn will ensures standard years of survival in the market. While planning to formulate a well-designed services the e-commerce firms must consider Customer perception towards their services like opportunities availed and challenges faced by customer on usage of Jio Mart.



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GREEN APPROACH FOR THE GENERATION OF BIOELECTRICITY PERFORMANCE, CHARACTERIZATION AND CAPACITY IMPROVEMENT

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ABSTRACT

Microbial fuel cells (MFCs) or Biological fuel cells are the elevation in the field of science that generates bio-electricity from the organic matter using bacteria as biocatalyst. In this study, activated sludge is used as substrate, the percentage of organic matter in a sample estimates the electrical capacity of MFCs fueled. From the experiment conducted, we have observed that higher the percentage of organic matter in the sample, results in higher the electricity production of MFCs powered. Physicochemical analysis and the concentration of metal ions present in the sludge were also analyzed. Single chamber MFC was constructed with different combination of electrodes. Microbes associated with fuel production were isolated from the anode surface. The isolate was found to be *Myroides xuanwuensis* through morphological, biochemical and molecular characterization. Double chamber MFC was designed, constructed with the isolated strain using salt bridge as a membrane with the varying concentrations of agarose to produce maximum voltage. Four MFCs connected in series showed maximum voltage of 2.26V under optimized conditions found to be sufficient to glow a LED bulb.

KEYWORDS : Microbial fuel cell, Bioelectricity generation, *Myroides xuanwuensis*, Salt bridge, Activated sludge.

INTRODUCTION

Production of electrons by microbial metabolism results in the production of electricity which is obtained and the electrons produced can be captured to maintain a stable or continuous form of energy production (Akshay et al. 2016). MFCs (Microbial Fuel Cells) have the ability to convert chemical energy into electrical energy by means of oxidation process where the micro-organisms present in the organic wastes by oxidation give to photosynthesis which is coupled with electricity production (Rosenbaum et al. 2010). This technology plays as an alternative tool for the current treatment on waste water system which helps in transforming waste materials into energy-saving technique (Ma et al. 2018; Rozendal et al. 2008; Liu et al., 2005; Fomero et al. 2008; Dong et al. 2012). MFCs working principle is same as that of other battery or fuel cells which consists of an anode and an electrode. Micro-organisms plays a vital role from the part of anode by oxidizing the organic materials and thus liberates electrons and protons and the entire circulating process is commonly called as electricigen (Ma et al. 2018).

Energy requirement, especially electrical consumption is increasing in today's world day-by-day and fossil fuels have led their usage in one or other way (Venkatesh Chaturvedi, and Pradeep Verma 2016). Eco-friendly and cheaper availability for the production has become the prime necessity and thus by using micro-organisms have paved the way for the same (Venkatesh Chaturvedi, and Pradeep Verma 2016; Logan 2004). There are different types of MFCs present namely single, double chambered MFCs and the substrates also varies widely in terms of their usage (Chae et al. 2009). Low molecular weight substrates like sucrose, fructose, glucose and maltose are also used in the reforming of this technology along with organic acids like propionate, acetate and lactate (Chaudhuri and Lovely 2003; Kim et al. 2000a; Kim et al. 2000b). Major drawback in the MFC technology is found to be that the low power density where, there is a need to isolate a particular micro-organism which have the efficiency to transfer the electrons to anode or in another case by engineering of the organisms through DNA recombinant technology to show the improved electron transfer to the anode (Aelterman et al. 2006). Thus, in the present study, an individual micro-organism have been isolated from the activated sludge and by means of MFCs using salt bridge, a cost effective model has been carried for the production of electricity under optimized conditions to obtain maximum voltage for an LED bulb to glow.

1. Materials and methods**1.1. Physicochemical parameters**

The physicochemical parameters of the activated sludge such as color, odor, and temperature were analyzed immediately after collection. The analyses of moisture, total solids (TS), total suspended solid (TSS), total dissolved solid (TDS), sludge volume index (SVI), chemical oxygen demand (COD) and detection of metal of metal ions were determined using standard method of the United States Environmental Protection Agency (USEPA 1994) and the standard methods of

American Public Health Association (APHA 2005) (Xavier Alberico Freitas et al. 2019).

1.2. Detection of heavy metals

The total heavy metal concentration was determined by initial drying for 48 h at room temperature until air-dried and then to a constant mass at 105°C and finally the sludge obtained was milled in a mortar grinder (Malwina Tytla 2019). 0.2 g of sample was digested with nitric acid (HNO₃) and hydrochloric acid (HCl) in a Teflon flask, using a microwave digestion system. Obtained solution was then filtered through fine filters (0.45 µm) and diluted with 5% HNO₃ to a volume of 50 ml. Sample was stored at 4°C prior to analysis. The total heavy metal concentrations were determined using Inductively Coupled Plasma Optical Spectrometry.

1.3. Construction of single chambered MFC

Single chambered MFC was constructed using a 500ml plastic container. The activated sludge sample was added till the rim of the container. Copper wire was used as an anode and Aluminium mesh as cathode. The chamber was closed to maintain anaerobic conditions. Electricity production was measured using digital multimeter (Wang et al. 2008).

1.4. Construction of double chambered MFC

A two chambered Microbial fuel cell was constructed using two 1000ml plastic containers and marked anode and cathode (Remya Nair et al. 2013). A side opening of 1.25cm radius was made at a height of 6cm from the bottom of the container and connected with a PVC pipe. 12% Agarose along with 4% Potassium chloride (KCL) salt was prepared by heating it in a water bath and the molten agarose was allowed to cool down and poured into the PVC pipe and sealed at one end using cello tape. The agarose was left undisturbed to solidify. The PVC pipe containing the salt-agarose mixture was fixed between the two containers using epoxy material and behaved like the salt bridge assisting in the proton transfer mechanism. Activated sludge sample was added to anode chamber and anaerobic conditions were maintained. The cathode chamber contained 0.5M Phosphate buffer. Copper wire and Aluminum mesh were used as the electrodes. Electricity production was measured using digital multimeter.

1.5. Combination of electrodes

Different electrode materials were collected and pretreated by washing with sterile distilled water and followed by ethanol wash for 10 minutes to remove the possible metal and inorganic contaminations and to neutralize the electrodes (Parkash et al. 2015). The electrodes were dried in hot air oven for 5 minutes and these electrodes were relatively inexpensive and easily available. Combinations of electrodes such as, Copper wire + Aluminum mesh, Copper wire + Stainless steel mesh, Copper wire + Pencil lead, Aluminum mesh + Stainless steel mesh, Aluminum mesh + Pencil lead and Stainless steel mesh + Pencil lead were used for the study.

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Abstract and content (in 500 words)

The Scholars continue to disagree on the establishment of a chronological study of Tamil literature. In particular, it can be seen that there are various disagreements among scholars regarding the study of the term syllabary. Beginning in the second century AD. It is noteworthy that it has not been extended to any other book in Tamil except Silappathikaram, which has been extended to the eleventh century.

The influence of Silappathikaram on the period of devotional literature from the second century onwards leads to a comparison of Kannaki with Karaikal Ammayar and Andal. Further influence is exemplified up to the eleventh century by exploring the use of syllabary in the period of the orator following the period of devotion. The Kannaki epic of Eelam Kannaki, which is believed to have originated in the fourteenth century on the basis of Silappathikara, is a form of Kannaki storytelling sung in both oral and shorthand forms.

Certified that the above given information is true to my knowledge.


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Silappathikaram Kala Anyavam
Kannathu Muraampadam


முனைவர்

முனைவர் கு. ஸதீஷ் கிருஷ்ணன் (1953-1997)
73. கருத்து விவாதத்தில் 1985இல் நிறுவனம்
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The sage says wisdom is to stay in that place. That is homelessness. The one who realized this well and meditated intensely on the cut was Kaduvelichittar. His name may be the causal name. He is said to have been Samaathi in Kanchipuram. There are various towns by the name of Kanchi. So, not sure which kanji.

Kaduvelichittar's songs have many themes of justice. The musicals are plentiful. Written in simple Tamil. They convey biological facts and virtual concepts. The purpose of this article is to try to find out with the help of his songs that we have found.

Certified that the above given information is true to my knowledge.


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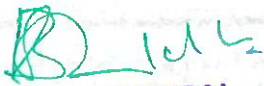
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கடுவெளிச் சித்தர்

முனைவர் வெ. இராம்ராஜ்

உதவிப் பேராசிரியர்

தமிழ்த்துறை, து.கோ. வைணவக் கல்லூரி,

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Jan 2021

முன்னுரை

வெட்டவெளி என்பது நம் மிடற்றுக்குமேல் உள்ளது என்பர் ஞானியர். அந்த இடத்தில் நிலைகொள்வதே ஞானம். அதுவே வீடுபேறு. இதை நன்கு உணர்ந்து வெட்டவெளியைத் தீவிரமாக தியானம் செய்தவர் கடுவெளிச்சித்தர். இவருடைய பெயர் காரணப் பெயராக இருக்கக்கூடும். இவர் காஞ்சிபுரத்தில் அடக்கமானதாகக் கூறப்பெறுகிறது. காஞ்சி என்ற பெயரில் பல்வேறு ஊர்கள் உள்ளன. எனவே, எந்தக் காஞ்சி என உறுதியாகத் தெரியவில்லை.

கடுவெளிச்சித்தரின் பாடல்கள் நீதிக் கருத்துகள் பலவற்றைக் கொண்டிருக்கின்றன. இசைநயம் மிக்கவையாக உள்ளன. எளிய தமிழில் எழுதப்பெற்றுள்ளன. அவை வாழ்வியல் உண்மைகளையும் மெய்ஞ்ஞானக் கருத்துகளையும் உணர்த்துகின்றன. அதை நமக்குக் கிடைத்திருக்கும் அவருடைய பாடல்களின் துணைகொண்டு அறிய முற்படுவதே இக்கட்டுரையின் நோக்கம் ஆகும்.

ஆசிரமம்

குமிளி மலையின் சமவெளிப் பகுதியில் கடுவெளிச்சித்தர் குகை இருக்கிறது. (கோரக்கர் மலைவாகடம், 164 கூமாமரக் கற்பம்) இது கடுவெளிச்சித்தர் தங்கி இருந்த ஆசிரமமாகக் கருதப்பெறுகிறது.

அச்சிடப்பெற்றுக் கிடைக்கும் நூல்கள்

கடுவெளிச் சித்தர் பாடல் 35,

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Arumbakkam, கடுவெளிச் சித்தர் பூரண ஞானம் 67

Dr. V. Ramraj
RSSA. Prof. in TAMIL

ஆகிய மூன்று நூல்கள் கடுவெளிச் சித்தரின் பெயரில் இன்று நமக்குக் கிடைக்கின்றன.

படிநிலைகளைக் கடந்து வருக

மெய்ஞ்ஞானம் பெற மனத்தைப் படிப்படியாகத் தகுதிப்படுத்திக்கொள்ள வேண்டும். எல்லா ஞானியரும் இக்கருத்தைப் பதிவு செய்கின்றனர். நம் கடுவெளிச்சித்தரும், சரியை கிரியை யோகம் தன்னையுமே

தாங்கடந்து

அறியதொரு ஞானம் அதில் - என்னையா ஆளடிமை கொண்டவரோ

- கடுவெளிச் சித்தர்

பூரண ஞானம் 67இல் 11

அந்தக் கரணத்தை அறிவாகத் தான்

அறுத்துத்

தொந்தப் பிறவி - என்னையா

தொலைக்க என்று வந்தவரோ

- கடுவெளிச் சித்தர்

பூரண ஞானம் 67இல் 14

எனக் குறிப்பிடுகிறார். மேலும், மனம், புத்தி, சித்தம், அகங்காரம் ஆகிய நான்கு வகையான அந்தக்கரணங்களையும் குக்கும சரீரமான ஆறாவது அறிவைக் கொண்டு அறுக்க வேண்டும் என்கிறார். அப்போதுதான் தொல்லைப் இறும் பிறவி சூழும் தளையை அறுக்க முடியும். அதற்கு, ஏடணை மூன்றும் பொல்லாதே

- கடுவெளிச் சித்தர் பாடல் - 6

என்பதை உணர வேண்டும். மேற்சொன்ன படிநிலைகளைக் கடக்க இவ்வுணர்வு துணை செய்யும். ஏடணை என்றால் விருப்பம் எனப் பொருள்படும். மூன்று ஏடணையாவது, பொருள் தேடும் ஆசை, குழந்தைப் பேறு உண்டாக ஆசை,

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Women, especially those who lived in an ethnic community, must have told stories of early recreation, hunting and interesting events to express their personality. After the people who said so were headed to live in a stable place, heroic deeds changed greatly to men. Stories centered on the various problems that women face when they come into the real estate structure of the family. We can see that the women of the Tanjore area, who are centered on agriculture, have been told in stories and songs that they are facing various difficulties at home and in the field. In such stories we learn that their pain and desire to get rid of it are naturally expressed. In particular, the desire to understand her abilities, the assertion of the pride of learning and the expectation that the husband should remain the same, both directly and indirectly realizing that the husband has a responsibility to fulfill his sexual desire. Trying to break free from the family structure and trying to regain her power can be seen as the main theme of women in folklore.

Certified that the above given information is true to my knowledge.


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**நாட்டுப்புற வழக்காறுகள் கவி காமகேதம்
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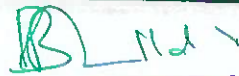
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தஞ்சை மாவட்ட நாட்டார் கதைகளில் பெண்



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வாய்மொழியாக மக்களிடையே காலங்காலமாய் பாடப்பட்டு அல்லது சொல்லப்பட்டு வந்த கதைகளில் பழங்காலம் தொடர் நாட்டார் வழக்காறுகளில் பெண்களை மையமிட்டு கதைகள் பல எழுந்துள்ளன. இதற்கு தமிழில் தோன்றிய முதற் காப்பியமே சான்று. தமிழில் தோன்றிய காப்பியங்களில் பெண்களே முதன்மை பெற்றிருப்பதற்குச் சிலப்பதிகாரம், மணிமேகலை போன்றவையே சான்றாக இருப்பதைக் காணலாம். அவ்வகையில் காலந்தோறும் கொற்றவை, கண்ணகி, இசக்கி, நல்லதங்காள் போன்ற பெண்கள் குறித்தான நாட்டார் கதைகள் தமிழ்ச் சமூகத்தில் குறிப்பிடத்தக்கவையாக அமைவதைக் காணலாம். தாய்வழிச் சமூகத்தின் நீட்சியை வெளிக்காட்டும் வகையில் கதைகளாகவும் வழிபாட்டு வடிவங்களாகவும் நாட்டார் மரபில் பெண்கள் தொடர்ந்து முக்கியத்துவம் பெறுவதைக் காணமுடிகிறது.

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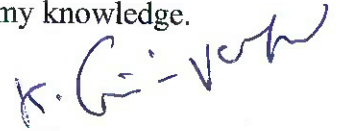
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Folk arts were grown from many samayams. vaishnam plays a role in that. Vaishnavism is there in kolattam and kummiyattam. in arrayar sevai thovya prabantham is sung as song and by dance and by acting. We see about that here. This study is based on folklore and literature.

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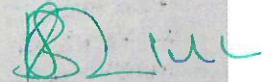
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சடங்குகள் தான் நாட்டுப்புறக் கலைகளின் ஆதாரம். எங்கு சடங்குகள் நடை பெறுகிறதோ அங்கு கண்டிப்பாக ஒரு கலை வடிவம் இருக்கும். அதுவும் மிக முக்கியமாக நாட்டுப்புறக் கலை வடிவம் இருக்கும். சடங்குகள் ஏதேனும் ஒரு சமயத்தைச் சார்ந்து இருக்கும். சிறுதெய்வ வழிபாட்டில் சடங்குகள் அதிகம் உண்டு என்ற போதும் பெருந்தெய்வத்தை வழிபடும் நாட்டுப்புற மக்கள் தங்களுக்குத் தெரிந்த கலை வடிவத்தில் சிறுதெய்வத்தை வழிபடுவது போலவே பெரு தெய்வத்தையும் வழிபடுகின்றனர்.

R.L.L.

சமயங்களைச் சிறப்புற வளர்த்த கலைகளில் நாட்டுப்புறக் கலைகளுக்கு அதிக பங்கு உண்டு. வைணவ சமயத்தின் முழுமுதற் கடவுளான திருமால் பெருந்தெய்வம் என்றாலும் நாட்டுப்புற மக்கள் வழிபடும் இறைவனாகவும் உள்ளார். மாயோன் முல்லை நிலத்தின் தொன்மையான தெய்வம் என்பது தமிழுலகம் அறிந்தது. திருமால் நாட்டுப்புற மக்களிடையே பெருமாள் என்றும் அழைக்கப்படுகிறார். நாட்டுப்புற மக்களின் வழிபாடு என்பது கலைகள் சார்ந்த வழிபாடு என்றால் அது மிகையாகாது. அந்த நாட்டுப்புற மக்களின் கலைகளில் திருமால் வழிபாடும் வைணவமும் எத்தகைய இடத்தைப் பெற்றுள்ளது என்பதை ஆய்வதே இக்கட்டுரையின் நோக்கமாக அமைகிறது. நாட்டுப்புறக் கலைகள் மட்டுமல்லாது, நாடோடிக் கலைகளும் இங்கு பார்க்கப்பட்டுள்ளது.

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Tamil scholar Prof. S.V. Subramanian was the one who developed Tamil. Only those who have studied the language have lived as a proof that they can embody universal thinking. As such, he should be commended in the ranks of Prof. T.P.Meenakshi Sundaram Pillai, Prof. Vaiyapuri Pillai and Prof. M. Varatharasanar. He has set his life with Tamil. He lived very simple man. He created a village for Tamil. He made his home in Tamil Nadu - Tamil city. This article is set to reveal his connection with Tamil.

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- வெ. இராமராஜ்

காப்பிய கால மகளிரின் கலையுணர்வு

- க. சாந்தி

நீதி இலக்கியங்களில் கல்வியியல் ஓர் பார்வை

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திருக்குறள் வெளிப்படுத்தும் இல்லறம்

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பக்கம்

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TAMILIUM SAVE SUMM

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முனைவர் வெ. இராமராஜ்

உதவிப் பேராசிரியர்

தமிழ்த்துறை, து.கோ. வைணவக் கல்லூரி,
அரும்பாக்கம், சென்னை - 600 106.

பிப்ரவரி 2024

முன்னுரை

தமிழ் அறிஞர் பேராசிரியர் ச.வே. சுப்பிரமணியன் அவர்கள் தமிழை வளர்த்தவர். மொழியைப் படித்தவர்தான் உலகலாவிய சிந்தனையுடன் திகழ முடியும் என்பதற்குச் சான்றாக வாழ்ந்தவர். அந்தவகையில் இவர் பேராசிரியர் தெ.பொ.மீனாட்சிசுந்தரம் பிள்ளை, பேராசிரியர் வையாபுரிபிள்ளை, பேராசிரியர் மு.வரதராசனார் போன்றோர் வரிசையில் வைத்துப் போற்றப்பெற வேண்டியவர். அவர் தம்முடைய வாழ்வைத் தமிழோடு அமைத்துக் கொண்டவர். மிக எளிய மனிதராக அரையாடையோடு வாழ்ந்தவர். தமிழுக்கு ஊர் ஒன்றைப் படைத்தவர். தம் இல்லத்தைத் தமிழகமாக - தமிழ்நகரமாகக் கியவர். தமிழுடனான அவருடைய இயைபை - தோய்வைப் புலப்படுத்துவதாக இக்கட்டுரை அமைகிறது.

அறிமுகம்

பேராசிரியர் ச.வே. சுப்பிரமணியன் அவர்கள் திருநெல்வேலி மாவட்டம் வீரகேரளம்புதூரில் பிறந்தவர் (31-12-1929 - 12-1-2017 - 88 ஆண்டுகள்). பெற்றோர் சு. சண்முகவேலாயுதம் பிள்ளை, இராமலக்ஷ்மி. பள்ளிப்படிப்பை விக் கிரம சிங்கபுரம் புனித இருதயர் தொடக்கப் பள்ளியிலும், அம்பாசமுத்திரம் தீர்த்தபதி உயர்நிலைப் பள்ளியிலும் முடித்தார். இடைநிலைக் கல்வியை ம.தி.தா. இந்துக் கல்லூரியில் பயின்றார். 1950-53இல் இளங்கலைப் (சிறப்பு - Honours) பட்டம்

பெற்றார். முனைவர் பட்டத்தைக் ஆய்வு செய்து பெற்றார்.

பணி

தூத்துக்குடி வ.உ.சி. கல்லூரியில் 1953ஆம் ஆண்டு முதல் முன்றாண்டுகள் தமிழ் ஆசிரியராகப் பணியாற்றினார். பின்னர் பாளையங்கோட்டை தூய சவேரியார் கல்லூரி, திருவனந்தபுரம் பல்கலைக்கழகக் கல்லூரி ஆகியவற்றில் விரிவுரையாளராகப் பணியாற்றினார். கேரளப் பல்கலைக்கழகத்தின் தமிழ்த் துறைத் தலைவராக விளங்கினார். சென்னை, தரமணியில் உள்ள உலகத் தமிழாராய்ச்சி நிறுவனத்தில் இயக்குநராகச் சிறக்கப் பணியாற்றினார். அரிய ஆய்வு நூல்கள் பலவற்றை வெளியிட்டார். சாகித்திய அகாடமி கமிட்டியின் உறுப்பினராகவும் பணியாற்றியுள்ளார்.

படைப்பாற்றல்

தமிழ், ஆங்கிலம், மலையாளம் ஆகிய மொழிகளில் புலமை பெற்றவர். இம்மொழிகளில் பல்வேறு படைப்புகளை உருவாக்கியுள்ளார். 200-க்கும் மேற்பட்ட ஆய்வுக் கட்டுரைகளை எழுதியுள்ளார். வானொலியில் 100-க்கும் மேற்பட்ட உரைகளை நிகழ்த்தியுள்ளார்.

நூல்கள்

1. இலக்கிய நிலைவுகள் (1964, 69, 74, 75, 87) 2. அரும்பாக்கம் பரல்கள் (1972), 3. இலக்கிய கனவுகள் (1972, 79) 4. மாந்தர் சிறப்பு (1974, 78, 81) 5. ஒன்று நன்று (1976), 6.


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Abstract and content (in 500 words)


Listening to the story is everyone's favorite. In that sense, it is very important to know the biography based on real events. Even more special if the results of those stories are good. Even more special if you realize the values of life. It is possible that this book exemplifies the life and vows of Srivallapacharya.

The life of a spiritual scholar is related to the realization of God. That is why most of them are full of taste, interest and novelty. They reveal the way they live. Such is the life of Srivallapacharya.

This book seeks to highlight the common denominator of Indian religions, the Pushti religion, and the visionary Srivallapacharya. It is directly related to the life and vows of Srivallapacharya. The book simply illustrates the innovative religious approach he embodies. In this way one can get a proper religious understanding.

The purpose of this booklet is to illustrate the uniqueness of the Indian religious and to illustrate the history of Srivallapacharya.

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அனுபவக் களஞ்சியம்

(பேராசிரியர் அரங்க. இராமலிங்கனார்)



முனைவர் வெ. இராமராஜ்

அனுபவக் களஞ்சியம்
[பேராசிரியர் அரங்க. இராமலிங்கனார்]

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(PAYRASIRIYARARANGA RAMALINGANAR)

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Abstract and content (in 500 words)

Time will not wait for anyone. Whether we cry, laugh, think or sleep, time will pass. While writing (reading) these lines, time is running out. Those who know how to live realize the glory of time and act accordingly. They give them the opportunity to cultivate well over time. They turn any situation into a learning environment. Thereby attaining maturity.

They look at each event from the perspective of 'success' or 'learning'. Seeing nothing as failure. Time transforms those who value time into its own identity. The literature itself bears witness to this. The purpose of this article is to explore the concept of 'period' in support of that literature.

Certified that the above given information is true to my knowledge.


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ஏப்ரல் 2021


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(பன்னாட்டு ஆய்விதழ்)

(TODAY ITHAZH-International Journal)

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காலம் கருதி இருப்பர்

முனைவர் வெ. இராமராஜ்

உதவிப் பேராசிரியர்

தமிழ்த்துறை, து.கோ. வைணவக் கல்லூரி,

அரும்பாக்கம், சென்னை - 600 106.

செப்டம்பர் 2021

முன்னுரை

காலம் யாருக்காகவும் காத்திருக்காது. நாம் அழுதாலும், சிரித்தாலும், சிந்தித்தாலும், உறங்கினாலும் காலம் கடந்து கொண்டே இருக்கும். இந்த வரிகளை எழுதிக்கொண்டிருக்கும் (படித்துக் கொண்டிருக்கும்) போதும் காலம் கடந்துகொண்டுதான் இருக்கும். வாழத் தெரிந்தவர்கள். காலத்தின் பெருமையை உணர்ந்து செயல்படுகின்றனர். அவர்களை நன்குப் பண்படுத்தும் வாய்ப்பைக் காலத்திற்கு வழங்குகிறார்கள். எந்தச் சூழ்நிலையையும் கற்பதற்கானச் சூழலாக மாற்றுகிறார்கள். அதன் மூலம் பக்குவநிலையை எய்துகிறார்கள்.

ஒவ்வொரு நிகழ்வையும் 'வெற்றி பெறுதல்' அல்லது 'கற்றல்' எனும் கண்ணோட்டத்தில் காண்கிறார்கள். தோல்வியாக எதையும் காண்பது இல்லை. காலத்தை மதித்தவர்களைக் காலம் தன்னுடைய அடையாளமாக மாற்றிக் கொள்கிறது. இலக்கியங்களே அதற்குச் சான்றுகளாகத் திகழ்கின்றன. அந்த இலக்கியங்களைத் துணையாகக் கொண்டு 'காலம்' எனும் கருதுகோளை ஆராய்வது இக்கட்டுரையின் நோக்கம் ஆகும்.

பெருமை

காலத்தின் பெருமையை - சிறப்பை உணர்த்தும் பல பழமொழிகள் தமிழில் உள்ளன. 'காலம் பொன்போன்றது', 'நாள் செய்வதை நல்லவர்கள் கூட செய்யமாட்டார்கள்', 'காற்றுள்ளபோதே தூற்றிக்கொள்', 'பருவத்தே பயிர்செய்', 'ஆடிப்பட்டம் தேடி விதை' போன்ற முதுமொழிகள் காலத்தின் பெருமையை - சிறப்பை உணர்க்குவன.

காலத்தினால் செய்த நன்றி
சிறிதுஎனினும்

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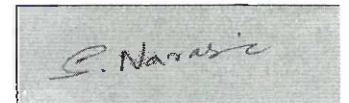
Abstract and content (in 500 words)

This article explains the significance of gradual sensorial withdrawl in relation mind control of Raja Yoga - Mind management. Great works like Srimad Bhagavad Gita, Patanjali's Yoga Sutra etc highlight why tolerance and gradual sensorial with drawl are essential in connection with progress in spiritual life.

Certified that the above given information

Signature of the participant

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मनोनिर्वहणविषये उपरतेः आवश्यकता

- डा. श्री.नरसिंहः

कर्ममयं जगत्

सृष्टि-स्थिति-लय-उदयास्तमन -पुण्यपाप-लाभ-नष्ट-जननमरणाद्यनेकविध -कर्मभरितोऽयं प्रपञ्चः ।
आसृष्टेः कर्मणः एतादृशी गतिः बलिष्ठा निरन्तरं चलन्ती एव अस्ति प्रपञ्चेऽस्मिन्। न केवलं लौकिककर्मनिरताः
सामान्याः मानवाः, परं ज्ञानमार्गरताः तत्त्वविदः योगिनः सिद्धा अपि कथञ्चित्लोकक्षेमार्थं क्रियान्विता एव
भवन्ति। अत एव

“नैव किञ्चित्करोमीति युक्तो मन्ये तत्त्ववित्”¹ इति योगाचार्येण श्रीकृष्णेनैव सुष्ठु निर्धारितं गीतायां
यत्तत्त्वविदः अपि कर्माचरणं विहाय मौनं स्थातुं नार्हन्तीति। तर्हि सामान्यः जनस्तावत् प्रपञ्चेऽस्मिन्
कर्माचरणं विहाय निष्क्रियः कदापि भवितुं वा नार्हति।

“नियतं कुरु कर्मत्वं कर्म ज्यायोऽस्य कर्मणः ।

शरीरयात्रापि च ते न प्रसिद्धेदकर्मणः ॥²”

इति हि गीताचार्यः उपदिशति न तु मानवं कर्मणः पराङ्मुखं भवितुम्। एवंस्थिते लौकिककर्मसु वा ध्यान-
योगाभ्यास-आत्मविचारादिषु आध्यात्मिकविषयेषु वा प्रसक्तस्य मानवस्य कार्यनिर्वहणेन साकम्
आत्मनिर्वहणमपि अत्यावश्यकं भवति । यतो हि मानवेन मनसा सङ्कल्पितस्य विषयस्यैव कार्यरूपेण व्यवहारः
भवति लोके। अनेकविधकार्याणाम् आचरणसमये व्यक्तिगतगुणदोषाः तथा बलाबलाश्च निश्चयेन
प्रभावमुत्पादयन्ति तत्प्रविष्टकर्मसु, तस्य वैयक्तिकजीवने, कर्मफले तथा इतरैस्सह व्यवहारेषु च। कर्माचरणेन
साकं विवेकवैराग्ययोः सम्पादनमत्यावश्यकं लौकिकजीवने, तथा आध्यात्मिकजीवने च।
तादृशगुणैस्सम्पादिता जागरूकता नितराम् आवश्यकीभवति कर्माचरणसमये तथा तत्प्रभावेषु च। नोचेत्
लौकिककार्याणाम् आचरणे तथा साधनामार्गे इति उभयत्रापि कामक्रोधादिभिः च्युतिः अनिवार्या भवति।
मानवैः आचरितानि नानविधानिकर्माणि तथा कर्मफलानि च प्रायशः सुख-दुःख, लाभालाभादि द्वन्द्वमयान्येव।
प्रयोजनमनुद्दिश्य न मन्दोऽपि प्रवर्तते इति हि लोकगतिः। सत्वगुणान्वितः योगी तत्त्ववित् आत्मनिष्ठो वा
कोऽपि विवेकवैराग्याभ्यां सम्पादितेन आत्मबलेन ईश्वरचिन्तनेन ईश्वरार्पणबुद्ध्या च तत्तत्कार्यफलेषु
अनाश्रितस्सन्मुक्तसङ्गः व्यवहरेत्।

“अनाश्रितः कर्मफलं कार्यं कर्म करोति यः ।

स सन्यासी च योगी च न निरग्निर्नचाक्रियः ॥³”


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12. श्रीमद्भगवद्गीता – with English translation of Swami Tapasyananda, Sri
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The article explains about the nine elements of devotion towards the lord sriman Narayana. The nine forms are Shravanam etc. In Ramayana , these elements appear in several places one such instance is rama serving sabari the old tribal woman who serves him with ardent devotion.

Certified that the above given information



Signature of the participant

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VALMIKI RAMAYANE NAVAVIDHABHAKTI

वाल्मीकिरामायणे नवविधभक्तिः

Dr. S. Ganesh

1. श्रवणम्

यावद्रामकथां वीर श्रोष्येऽहं पृथिवीतले ।
तावच्छरीरे वत्स्यन्तु मम प्राणा न संशयः ॥ १६॥

2. कीर्तनम्

महात्मनौ महाभागौ सर्व लक्षण लक्षितौ।
तौ कदाचित् समेतानाम् ऋषीणाम् भवित आत्मनाम् ॥ १-४-१४
मध्ये सभम् समीपस्थौ इदम् काव्यम् अगायताम्।

Once those two great-souls who endowed with musical talent and with all remarkable features, sung this epic, standing nearby the midst of a gathering of sages and pious souls.

3. स्मरणम्

सा त्वशोकस्य विपुलां शाखामालम्ब्य पुष्पिताम्।
चिन्तयामास शोकेन भर्तारं भग्नमानसा ॥ ५-२५-६

That Seetha with a broken heart due to grief, held a wide flowering branch of Ashoka tree and thought about Her husband.

4. पादसेवनम्

क्षिप्रम् सम्योजयित्वा तु राघवस्य पुनः स्वयम् ।
चरणौ तौ तु रामस्य द्रक्ष्यामि सहपादुकौ ॥ २-११५-१८

"Having restored these wooden sandals personally to Rama's feet immediately after his return, I shall behold those feet of Rama along with these sandals."

5. अचरनम्

एवम् उक्ता महाभागैः तदा अहम् पुरुषर्षभा
मया तु विविधम् वन्यम् संचितम् पुरुषर्षभा ॥ ३-१०५-१९
तव अर्थे पुरुषव्याघ्र पम्पायाः तीर संभवम्।

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"Oh, best one among men Rama, thus I was told by those highly providential sages, oh, best one among men, oh, manly tiger, and I have

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When a man came in the society, what did he not do to give a good education to his children? That is, he makes every struggle for the education of his children, even if he has to mortgage or take a loan for the education of his children. But in today's society, every parent wants to send their children to an English school, one of them is Ramchand ji, who got his son Lalchand admitted to the English Convent School, the cost of admission fees, books and copies: The cost of uniform is happy. had picked up. But after the fifth, due to not being able to bear the expenses, he was given pulses in Hindi medium in the government school and again, b. Went to Patna, due to which he left his studies and his future was also to become a cleaning worker. Here is the expiration of a poor family


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'टूटा वहम' कहानी-संग्रह में 'नयी राह की खोज' में सामाजिक चेतना

-मनोज कुमार द्विवेदी

शोध छात्र, उच्च शिक्षा और शोध संस्थान, दक्षिण भारत हिंदी प्रचार सभा, मद्रास।

समाज में आज जब मनुष्य अपने बच्चों को एक अच्छी शिक्षा देने के लिए क्या-क्या नहीं करता? अर्थात् वह अपने बच्चों की शिक्षा के लिए हर संघर्ष करता है चाहे उसे अपने बच्चों की पढ़ाई के लिए सामान ही क्यों न गिरवी रखना पड़े या कर्ज लेना पड़े। लेकिन आज के समाज में हर माँ-बाप अपने बच्चे को अंग्रेजी विद्यालय में पढ़ाना चाहता है। उन्हीं में एक रामचंद जी है जिन्होंने अपने बेटे लालचंद को अंग्रेजी कॉन्वेंट स्कूल में दाखिल करवाया था। दाखिले की फीस, किताब-कॉपियों का खर्च, यूनिफॉर्म का खर्च खुशी-खुशी उठाया था। के.जी. में तो सिर्फ यूनिफॉर्म, टाई, जूता-मोजा की फिकर करने में पूरा साल निकल गया। यूनिफॉर्म में लालचंद सचमुच बहुत प्यारा लगता था। माँ-बाप, दादा-दादी उसे देखकर खुशी से झूम उठते थे। जब बच्चा ए.बी.सी.डी और वन, टू थ्री, फोर की कुछ गिनती पढ़ता तब सुनकर परिवार के सभी लोग बहुत खुश हो जाते थे। सभी के मन में यह था कि मेरा बेटा साहब बनेगा, अच्छी अंग्रेजी बोलेगा। परिवार के लोगों ने किसी तरह से अपने बच्चे को चौथी कक्षा तक पढ़ाया उसके बाद स्थिति अच्छी न होने के कारण उसे कॉर्पोरेशन स्कूल में डाल दिया जाता है। जहाँ पर लालचंद को अब हिंदी में अ.आ.इ.ई पढ़ना पड़ता है जो उसे आता नहीं था। तब लालचंद ने पढ़ाई से अपनी दूरी बनाना शुरू किया। शुरू से अंग्रेजी पढ़ी अब उसे अपना नाम भी हिंदी में लिखना नहीं आता। लालचंद की पढ़ाई का हाल देखकर शिक्षक उसे पीटने लगे। शिक्षकों का गुस्सा देखकर लालू स्कूल से भागने लगा। घर भी कैसे जाए? बाप का अरमान था, "बेटा अंग्रेजी नहीं पढ़ सके, कम से कम हिंदी माध्यम से मैट्रिक कर ले। कहीं न कहीं अच्छी नौकरी मिल ही जाएगी।" सो बाप का डर अलग स्कूल से भागकर घर जाएगा तो बाप पीटाई करेगा। लालू नाले किनारे बैठा गंदे पानी में पत्थर फेंकता रहता, शाम होती तब बस्ता लेकर घर आ जाता। लड़के का स्कूल से नाम कट गया। पता चलने पर माँ ने मास्टर जी और हेडमास्टर जी के बहुत हाथ जोड़े, पाँव पड़े, माफी माँगी मगर अब क्या हो सकता था? लालू का स्कूल में फिर से नाम नहीं लिखा गया। दो-तीन दिन लालू को पीटाई के साथ पढ़ाई खत्म हो गई।

सभी उसे अब कमाने के लिए कहने लगे। अब माँ दृबाप, दादा-दादी, नाना-नानी सबकी इच्छा थी कि लालचंद की शादी हो जाये। पहले तो लोग पढ़ाई भी इसीलिए करते थे कि किसी तरह शादी विवाह में कोई रुकावट न आए। बाद में भले ही बेरोजगार रहे। "रामचंद की कई पीढ़ियों से अशिक्षा चली आ रही थी। सफाई का धंधा विशसत में मिल जाता था। इसके आगे कुछ और सोचने का प्रयास कही दिखाई नहीं देता था। लालचंद भी सफाई कर्मी में भर्ती हो जाता है और सोचता है कि अब मेरी भी पीढ़ी भी इसी तरह से गुजरेगी। क्या उसका भी बेटा एक दिन सफाई मजदूरों की लिस्ट में आ जाएगा। जैसा कि वह आ गया है। ऐसा कब तक चलेगा? कहीं न कहीं और कभी न कभी तो इस परंपरा को तोड़ना ही पड़ेगा। रामचंद को अपने बेटे का भविष्य देखकर बहुत दुख हुआ था। अब लालचंद अपने बच्चे के भविष्य के विषय में चिंतित रहने लगा।

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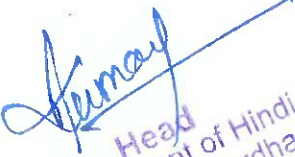
This article explains how the bad influence of media is reflecting in current young generation. This article bring a kind of precaution for the young generation to be away from such faulty media, which can cause serious damage in the mind and in personality also.


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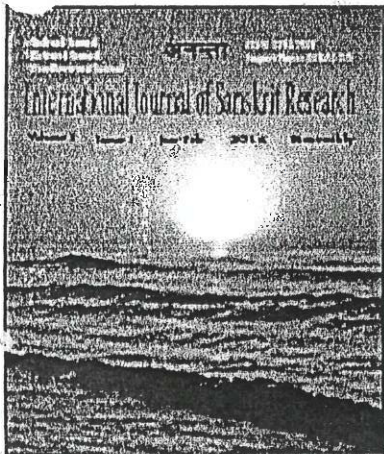
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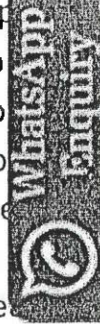
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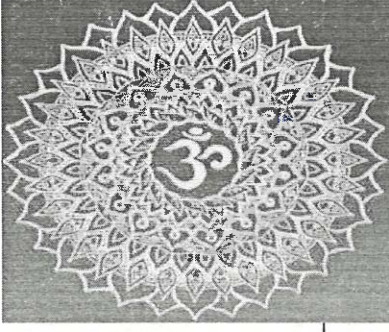
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MEDIA KA SAMAJ PAR Padmaa DUS#prabhar मीडिया का समाज पर पड़ता दुष्प्रभाव

डॉ. सुनील पाटिल
Dr. SUNIL PATIL

हमारे ऋषि मुनियों, पूर्वजों और मनीषियों ने भारतीय संस्कृति की जो मजबूत आधारशिला रखी थी वह आज के इस आधुनिक दौर में बिखरती नजर आ रही है। यह सर्वविदित है कि समय के साथ हर वस्तु में बदलाव आता है। किंतु ऐसा बदलाव जो हमें अपनी संस्कृति से दूर ले जा रहा है, जिसमें मानवता, उदारता, सहिष्णुता और त्याग जैसी भावनाओं का गला घोंटा जा रहा है। वह हमारे देश के लिए खतरनाक है। क्योंकि किसी भी देश की पहचान उसकी संस्कृति से होती है। किंतु आज मीडिया ने हमारे संपूर्ण सामाजिक ढाँचे को ही बदलकर रख दिया है। जिसका प्रभाव हमें समाज में विकृत जनतंत्र, राजनीतिक भ्रष्टाचार व दिखावटी शिष्टाचार के रूप में दिखाई देता है। मीडिया के कारण समाज में फैली इस अवस्था पर व्यंग्य करते हुए रघुवीर सहाय ने अपनी 'टेलीविजन' नामक कविता में कहा है कि

"वह चेहरा जो जिया या मरा व्याकुल जिसके लिए दिया"।
उसके लिए समाचारों के बाद समय ही नहीं दिया।
तबसे मैंने समझ लिया है आकाशवाणी में "बन ठन,
बैठे हैं जो खबरों वाले ये सब है जन के दुश्मन"।

आज मीडिया की अतिक्रमणता के कारण पारिवारिक एवं सामाजिक जीवन मूल्य टूटकर बिखरते जा रहे हैं। आज युवा वर्ग पूरी तरह से ग्लैमर बिखरती मीडिया के जाल में फस चुका है। वहीं दूसरी तरफ उम्रदराज लोग भी इसके सामने बौने साबित हो रहे हैं। युवकों में येन-केन-प्रकारेण धन कमाने की बलवती होती इच्छा, एकल परिवार का चलन, अश्लील कपड़े का प्रचलन, सेक्स का खुले आम प्रचार यह सब चीजें मीडिया की देन हैं, जो आज हमारे समाज द्वारा व्यवहार में लाई जा रही हैं।

आज आए दिन टेलीविजन के माध्यम से अनेक रियालटी-शो का प्रसारण किया जा रहा है। उसमें अधिकतर शो ऐसे हैं। जिसमें छोटे-छोटे बच्चों को लिया जाता है। अविभाक भी मीडिया के इस रंग में पूरी तरह रंग चूके हैं। जिस उम्र में बच्चों को खेलना कूदना व पढ़ना-लिखना चाहिए। उस उम्र में अविभाकों ने अपने बच्चों में उपभोक्तावादी रवैया विकसित कर दिया है। किंतु आज हम इस सत्य को भूल गए हैं कि आज का बालक कल का नागरिक

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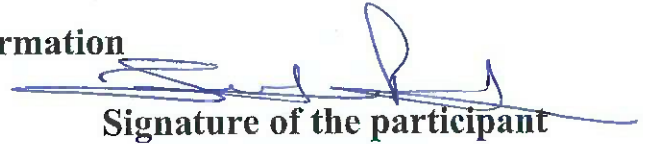
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Abstract and content (in 500 words)

This article explains what are the challenges do occur in current education system and how they influence the young minds. Influence of Politics, inexperienced policy makers, not having broad vision, not knowing the actual need of younger generation are such things discussed in relation with Education policies, syllabus framing etc.


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चेन्नै

Adhunik Yug Banam Shiksha Ksheter me
Vyapti samasya aayen
आधुनिक युग बनाम शिक्षा क्षेत्र में व्याप्त समस्याएँ

डॉ. सुनील पाटिल

Dr. SUNIL PATIL

मनुष्य सुख और शांति के लिए जन्म से ही प्रयास करता आया है। अपनी उन्नति के लिए सृष्टि के प्रारंभ से ही वह प्रयत्नशील है। उसे पूर्ण मानसिक शांति शिक्षा द्वारा प्राप्त हुई। शिक्षा के अमोघ प्रभाव से वह चमत्कृत हो उठा। उसकी सामाजिक तथा नैतिक उन्नति हुई, वह आगे बढ़ने लगा। अब उसे स्पष्ट अनुभव होने लगा कि बिना शिक्षा के मनुष्य को न अपने कर्तव्य का ज्ञान होता है और न ही उसको आन्तरिक बाह्य शक्तियों का विकास होता है। अतः मानव वृत्तियों के विकास तथा आत्मिक शांति के लिए शिक्षा परमावश्यक है। शिक्षा से मनुष्य की बुद्धि परिष्कृत और परिमार्जित होती है। उसे सत् और असत् का विवेक होता है। भारतीय शिक्षा का एकमात्र उद्देश्य मनुष्य को पूर्ण ज्ञान प्राप्त कराना था, जिससे वह अंधकार से निकलकर ज्ञान के प्रकाश में विचरण करता था।

हमारे भारतवर्ष में शिक्षा की ऐतिहासिक पृष्ठभूमि अत्यंत भव्य एवम् गौरवशाली थी। दूसरे देशों की तुलना में हमारे देश की सभ्यता एवं संस्कृति प्रेरणादायक और अग्रणीय थी। जिसका प्रमुख क्षेत्र हमारी शिक्षा को जाता था। वैदिककाल से प्रारंभ होकर यह शिक्षा बौद्धकाल एवं मध्यकाल तक आते-आते अत्यंत प्रसिद्ध हो चुकी थी। यह समय हमारी भारतीय शिक्षा का स्वर्णकाल था जिसमें शिक्षा अपने विकास के मार्ग पर निरंतर अबाध गति से आगे बढ़ती गई। प्रत्येक चरण में शिक्षा दृढ़ एवं बलवती होती गई और शिक्षा का भविष्य सँवरता ही गया। किंतु हमारे देश में शिक्षा का यह स्वरूप ज्यादा दिनों तक स्थायी नहीं रह सका। हमारी शिक्षा के इस स्वरूप पर अंग्रेजों की कुदृष्टि का प्रकोप मंडराने लगा।

ब्रिटिशकालीन शासन के विरुद्ध जब गांधीजी तथा अन्य नेताओं के नेतृत्व ने विद्रोह को जन्म दिया तब आंदोलनों का ऐसा सैलाब आया जिसने संपूर्ण शिक्षा व्यवस्था की नींव को हिलाकर रख दिया जिससे छात्र-छात्राओं का ध्यान शिक्षा से हटकर नेतागिरी तथा आंदोलनों की ओर आकृष्ट हुआ। जिसने शिक्षा की विकृति के इस अंकुर को बढ़ने का मौका दिया।

स्वतंत्रता-प्राप्ति के लिए चलाए गए इन आंदोलनों में छात्रों ने जितना योगदान दिया किन्हीं कारणों से उतना शिक्षकों ने नहीं दिया इससे ब्रिटिश काल में ही शिक्षकों के प्रति एक अनादर का भाव छात्रों तथा अन्य जनता के हृदय में प्रस्फुटित हो गया जो आज भी किसी न किसी रूप में है और एक भयंकर समस्या का रूप ले रहा है। इसके अतिरिक्त कई सामाजिक, आर्थिक, वैयक्तिक तथा राजनीतिक समस्याएँ हैं जो शिक्षा को खोखला करती जा रही हैं।

भोजन चाहे देशी हो चाहे विदेशी, उसका एकमात्र लक्ष्य पेट भरने में है। उसी प्रकार शिक्षा चाहे देशी हो या विदेशी, यह एक सामान्य प्रक्रिया है जो मनुष्य को मनुष्य बनाने की क्षमता प्रदान करती है। शैक्षिक जीवन का प्रत्येक क्षण, उसकी प्रत्येक प्रवृत्ति, समस्त योजनाएँ, विधियाँ और बावस्थाएँ एक ही

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