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Sentiment Analysis: A New Paradigm in Natural Language Processing

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Abstract

This paper elucidates the process of sentiment analysis with an emphasis on classification, applications and challenges in this recent research area. With the explosive growth of the social media content on the web in the past few years, sentiment analysis has become very important as more and more people are getting involved in social media in order to share their views and opinions. Sentiment analysis, also referred as opinion mining, combines natural language processing with artificial intelligence capability and text analytics to assess

conveniently connected millions of people and has made it possible for them to share their views even with strangers. Nowadays people look at the reviews even before downloading an application in their phones. According to a survey, it has been noted that while purchasing goods online, people prefer those items which are rated better irrespective of the price issues and concerns. As more and more people are using social networks to share their views, opinions and experiences of goods and services they have bought, the vendors/companies are getting more alert and sincere about the reviews. Since the feedback of their goods and services, either positive or negative,



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Development of an Electronic Voting System

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Abstract

The term "Electronic Voting" refers to the use of computer to cast votes in an election process. Electronic Voting System aims at conducting voting in any democratic election. It is a system that is meant to computerize the work performed in voting like casting or counting of votes. It substantially decreases the amount of effort required in comparison to manual voting system, increases the individual participation and improves the accuracy of voting results. This paper proposes the analysis, design and application of electronic voting system, using which multiple voters can vote concurrently.

errors once the records are entered. Also, it is inconvenient to update the records.

The problems of manual voting system led to the motivation for the development of this electronic voting system. Since the entire system is automated, it is easy to maintain, rectify and update the records. Also, it gives accurate and immediate results to its administrators just with an ease of button click.

2. Related Works

Nowadays, elections are conducted using Electronic Voting Machine. The proposed project will implement the same concept in institutional/organisational elections, such as elections of student governing bodies, to avoid



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A Novel Technique for Query Suggestion in Long Tail Queries

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Abstract

Query suggestion for input query is an attempt to make search experience easier and faster without putting the burden on the user to manage his information need. A search engine provides query suggestion technique that handles the explosive growth of web information and large scale of data. Search engines have big challenge to provide suggestion for long tail queries. Long tail queries are rare or

Long tail keywords are beneficial for providing more targeted, and specified results as user's need. To recommend these long tail or unseen queries we proposed an algorithm in which two matching techniques are used to query suggestion for long tail queries.

In the proposed algorithm matching is done by two techniques. First technique is content based matching in which typed content by user in search engine is directly



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25.	Future Architecture of General Purpose Computing on Graphics Processing Units (GPGPUs) (Tina Sachdeva, Nehal Sharma)	108 – 111

**Future Architecture of General Purpose Computing on Graphics Processing Units
(GPGPUs)**

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Abstract

The Graphics Processing Units (GPUs) have been used extensively since their origin because of their high accuracy and speed in processing visual data. The primary reason for their success is the extensive use of parallel processing which has improved their performance and made them more efficient and effective than a Central Processing Unit(CPU).Through this review paper, we intend to present the application of Moore's Law in the development of GPUs over the years, review the recent developments in the General Purpose Computing on Graphics Processing Units(GPGPU), present an outlook for their future architecture and also comment on the

also called streaming processors(SMs) for Nvidia GPUs and Single instruction, Multiple data (SIMD) cores for Advanced Micro Devices, Inc. (AMD) GPUs. A set of simple processing cores termed streaming processors (SPs) is present in every vector processor. Each of the processing cores present inside one vector processor can communicate via a memory that physically exists on the microcontroller itself, often called the on chip user managed memory. GPUs are in their novice stage. Although sufficient work has been done in terms of application progress but not much development has been seen as far as its architecture is concerned. Improvements in this direction can make them as a good option as far as multi-processing is concerned.



Computation of Bandwidth Utilization in a Network File System6

Proceedings of the second National Conference on Recent Trends in Instrumentation and Electronics

Computation of Bandwidth Utilization in a Network File System

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Abstract: There is a huge load of data on the network, which needs to be accessed by a number of systems simultaneously, and bring it on all systems leads to inefficient use of disk space. Further, it also leads to data redundancy and inconsistency. This problem can be solved by a Network File System (NFS) which allows remote hosts to mount file systems over a network and treat with them as though they are present locally. The aim of this research paper is to compute bandwidth utilization in NFS. This paper also describes the method of improving bandwidth utilization by exploiting the common content among different instances of the same file. The effect of this improvement on the bandwidth has also been discussed in the paper.

Keywords: Bandwidth utilization, Computer Networks, Data transfer, Network File System

- frequently used information is stored at a single place and is still accessible.
- Home directories could be set up on the NFS server and made available throughout the network
 - Portable storage devices are not required
 - Data consuming large amounts of space and administrative data may be kept on a single host.

WORKING OF NFS



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20.	Cyber War: An Open Challenge to Our Nation (Seema, Divya Pandey, Parvez Ahmad)	84 – 88

Cyber War: An Open Challenge to Our Nation

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Abstract.

The Cyber war is one of the most concerning issue of every nation in present age. India is one of the most vulnerable countries to cyber-attacks. Around 85 percent of websites either public or private complained of being hacked at least once still our country is not paying much attention toward this field. As a result confidential information, of Indian governments is frequently breached and compromised.

The purpose of this paper is to make the cyber war a familiar term to readers, and discuss the reason why our country is one of the most targeted country

deliberate attacking of computer system by another state or organization" [12].

In other words we can say Cybercrime is an illegal digital activity or set of illegal digital activities conducted by some state, nation or organizations; aimed at causing harm to another nation state or organizations by disrupting its activities. Apart from damaging and disrupting the target, cyber war also involves espionage like military warfare. This term can be used for wide range of targets and methods for illustration it can range from web site defacements to grave activities such as service disruptions that impact business revenues to e-banking frauds [7].



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9.	Visualization of Big Data: Tools and Techniques for Data-Driven Decision Making (Deeksha Sharma, Asha Yadav)	37 – 40

Visualization of Big Data: Tools and Techniques for Data-Driven Decision Making

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Abstract

In this paper, we review about one of the challenges of big data that is big data visualization, which is referred to presentation of data in a pictorial or graphical format and how it simplifies complex issues and develops mutual understanding. As the amount of data increases, visualizing data and making sense from it becomes difficult. Data visualization software enable the decision makers to

Big data help businesses to achieve deeper and faster insights of the large valuable data, thus improving customer experience and increasing the overall throughput of the business. But, with the ever increasing size and variety of data gathered Big Data is proving to be a tricky challenge for many organizations to achieve desired outcome. The velocity with which data flows in makes it difficult to handle and access simultaneously.



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(NCAECA - 2016)

4th - 5th February 2016



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RMart: A Digi-Campus

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Abstract

The Smart phones have changed the definition of mobile phones by being a powerful communication tool inevitable in our daily life along with varied options for fun and entertainment. It has now become a very common tool because of the popularity of android system in the electronics market.

Today's student generation is mobile, online and Internet-savvy. They are all computer gurus, and they often engage better with their electronics than they do

classes has the immediate advantage of allowing quick access to vast resources. Internet has proved to be superior to the conventional educational methodology. The benefits that Internet has brought to the classroom are undeniable. Internet growth is mainstreaming among the young population of India and the mobile access is growing in leaps and bounds. More and More people are going online in India, with more than 200 Million people connected as on December 2013. This indicates that digital content that they use is playing an ever-growing role in their lives.



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Designing a Mobile Application with OTP technique as an enhancement to e-attendance

Monika Tyagi¹, Preeti Singhal², Sumit Kumar³, Damini Bhatt⁴, Akshara Rai⁵, Madhu Pandey⁶,
Ritu Gupta⁷

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Abstract

We all are familiar with the process of manual attendance which is carried out across all educational institutions every day. It is a cumbersome and time consuming process. With advancement in technology like Smart classes our educational system is on the way to digitization. Thus there is a need to digitize the manual attendance

2. Present system of Attendance in Colleges

In the current scenario the entire work of attendance is done on paper. The present conventions followed for taking attendance are very tedious task and require a lot of paper work and thus are associated with various drawbacks like proxy



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**IIR Digital Low Pass Filter Design and Research and Simulation Result on
SCILAB**

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Abstract

"Filter" at first glance almost defines itself, which means pulling out the required information from a mixture. And when we tend to define it in technological term, filtering a signal means sifting out our data or removing the unwanted and noise signals. This paper deals with the

which executes on the frequency band, removes undesirable part known as noise or extract some useful components. The designing of IIR digital filters include process of designing filter in analog domain and then converting back to digital domain. The system of analog



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Electronic Gadgets – From Affection to Addiction: A Literature Review

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Abstract

In today's era, the advancements in technology have led to inventions of various electronic gadgets. The usage and dependency on electronic devices have been increasing rapidly which has lead to their addictive usage which often overrides and creates hindrance in daily activities especially in young adolescents. Due to the increasing trend of such

comfort which often causes cravings when it is absent.^[2]

Internet has continued to grow from more than a decade. About 32.7% of the world's population has access to the social networking sites like Facebook, Twitter, Linked-In, blogs, wikis and man more which has let people of all age groups to connect with almost anyone in the world.^[1] The growing use of



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Advanced Communication in Digital World

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Sonia Ahlawat
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Abstract

The recent adoption of semiconductor fabricated LED has created a whole new world of opportunities for a technology like visible light communication to see success. Talking in layman's language, visible light communication simply means, a light source which is transmitting the data through illumination, hence communicating. But when it comes to technical terms, Visible Light Communication can be defined as the transmitting of data signals using visible light as the signal carrier and air as the medium of transmission. It is comparatively new and safer way of transmitting signals using visible light communication.

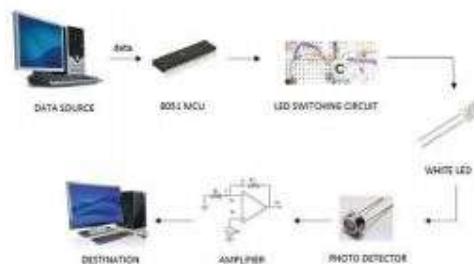


Fig 1: Transmitter and receiver section



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Development of Soy Fortified Traditional Snacks

Singh, Ranjana

*Associate Professor, Department of Food Technology
Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, Delhi
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Abstract

Soy foods have long been important in Asian diets, where they are valued for their nutrient content and culinary versatility. For health conscious Indians, soy foods are among the variety of healthful options meeting protein needs. Soy foods are reported to have lower risk of coronary heart diseases, osteoporosis, certain cancers & help alleviate menopausal symptoms. Four products viz. Multigrain soy bar, Soy vermicelli, Soy phirni & Guava soy bar were developed to prototype form and studied for their sensory acceptance and shelf-life study. These products could be easily formulated using locally available raw materials at a reasonable cost and the good organoleptic characteristics combined with high protein make these products



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**To Compare the Efficiency of UV, Chlorination and RO
Treatment given to Water**

**Saxena, Shraddha¹; Gupta, Disha¹; Unnikrishnan, Athira¹; Hemlata¹; Yadav, Sandhya¹;
Mehta, Shobha¹; Verma, Dhvani¹ and **Joshi, Deepa²****

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Abstract

Water is one of the most prone commodities that gets contaminated and hence can be responsible for some of the water borne diseases in the living being. So it becomes important to make water safe for consumption. For making it safe it is important to know about the extent of contamination and microbial load in the water. By knowing the extent of contamination in water, we can decide the treatment to be given to it which make it safe and is also economical. The treatment that will be used should also not be having any side effect upon consumption of such water. Some of the treatments that are being given to water are chlorination treatment,



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Food Wastage — A Global Concern

Agarwal, Kritika¹ and Singh, Ranjana²

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Abstract

Despite high production and an existing distribution network, India finds it difficult to feed its own people. This is due to considerable wastage. Food wastage is ironically behind the billions of people who are malnourished or hungry. The actual worth i.e. Rs. 50,000 crore of food produced is wasted in India, according to the agriculture ministry. According to a Food and Agriculture Organization report about one-third (around 1.3 billion tonnes) of food is wasted every year. Some of the reasons for food wastage are inadequate and improper storage, inefficient transport system and insufficient cold storage facilities etc. and this problem of food wastage can be overcome by using IT and mobile services, computerization and online tracking,



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**Microbial Analysis of Tap Water from Different Zones of
Delhi (North, West, East, South and Central)**

Doda, Silky¹; Mishra, Varsha¹; Khan Nazia¹; Kapoor, Nishtha¹; Sakshi¹ and Joshi, Deepa²

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Abstract

Water quality is essential for the social, health, economic well-being of people. Testing of water quality on a regular basis is an important part of maintaining a safe and reliable source. This will help ensure that the water source is protected from contamination and that proper treatment is selected and operating properly. Water samples were collected into clean containers from different regions of Delhi which includes north, south, east, west and central. The water samples were

Development of an Android based Mobile Application to Track Nutritional Intake of Young College Students

Para Dholakia¹, Asha Yadav² and Deepali Bajaj³

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Abstract—In recent years, health has become a major concern of all age groups. A healthy diet provides the body with essential nutrients. Components of the diet must be chosen judiciously to provide all the nutrients to meet the human requirements in proper proportions for the different physiological activities. Mobile platforms provide several advantages over traditional methods of obtaining diet-related information and recommendations. Real-time and continuous communication capabilities, a speedy, flexible, and a user-friendly

acids from protein, fatty acids, vitamins, minerals, and adequate calories.

The required nutrients for different physiological groups can only be derived from a well balanced diet. Micro and Macronutrients should be consumed in an appropriate quantity, proportions and levels to satisfy the individual requirements. The amount of each nutrient needed for an



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Vitamin-D Deficiency : An Emerging Epidemic — Meeting the Challenge

**Dholakia, Para¹; Unnikrishnan, Athira²; Gupta, Disha²;
 Raveendran, Kaavya²; Singh, Lavika² and Manchanda, Mansi²**

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Abstract

Vitamin D deficiency is pandemic, yet it is the most under-diagnosed and under-treated nutritional deficiency in the world. Indian socio-religious and cultural practices do not facilitate adequate sun exposure, thereby negating potential benefits of plentiful sunshine. Consequently, subclinical vitamin D deficiency is highly prevalent in both urban and rural settings, and across all socioeconomic and geographic strata. Vitamin D deficiency is likely to play an important role in the very high prevalence of rickets, osteoporosis, cardiovascular diseases, diabetes, cancer and infections such as tuberculosis in India. Synthesis of vitamin D in the skin by sunlight exposure is the major natural source of the vitamin. It is required for absorption of



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**Health Buddy – Mobile based Nutritional intake Tracking
Application for Young College Students**

**Yadav, Asha¹; Bajaj, Deepali¹; Dholakia, Para²; Jain, Bhawna³; Sharma, Deeksha³;
Tewari, Diksha³; Saxena, Dinika³; Gupta, Disha³; Sahni, Disha³;
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Abstract

With developing technology, changing lifestyles and busy schedules, people often tend to neglect the health. This has led to an outcry about health related issues among all age groups. A healthy body is combination of good eating habits and nutritional intake through a balanced diet. For a lay man it



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**Osmotic Dehydration of Papaya — Optimization
and Comparison**

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Abstract

Papaya is a highly nutritious fruit but as it lacks a sharp taste it is not preferred to be consumed in raw state by majority population. To increase its affinity, procedures like osmotic dehydration followed by drying are practiced. Osmotic dehydration is an upcoming technique which includes the partial removal of water from



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**Effects of Temperature on Physical Properties of
Some Fats and Oils**

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Abstract

A study was carried out to determine the effect of shear rates on the viscosities of different vegetable oils different temperatures (5 to 80°C) using Brookfield Viscometer (DV-I) and to study rheological behavior fresh and used vegetable cooking oils & fats. Rotational Viscometry using different kinds of rotor (spindle has been applied in order to determine relative shear stress of various samples. Also, Specific Gravity



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**Sustainable Utilization of Waste From Citrus Fruit
Processing Industry — A Review**

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Abstract

Citrus fruits are produced all around the world due to their commercial importance as well as high nutrition content. India ranks sixth in its production after China, Brazil, USA, Spain and Mexico. In India few species are commercially cultivated, which include grape fruit, lemons, limes, sweet oranges, and mandarins. In the last three decades the production and consumption have grown strongly. The growth of the citrus juice industry has led to the large-scale generation of citrus waste. Due to the large amount of citrus waste generated in the citrus juice industry, it is necessary to find a sustainable way to utilize this waste. This review discusses the various methods of citrus waste utilization and the potential of citrus waste as a source of natural products. The review also discusses the various methods of citrus waste utilization and the potential of citrus waste as a source of natural products.



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**Analysis of Pesticide Residues in Grapes after Different
Treatments using HPLC**

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Abstract

Pesticides are manufactured compounds that are designed to kill specific pests, such as weeds and insect. If the organisms are exposed to high levels or for a long period of time, pesticides have the potential to cause harm. Due to the substantial developments in the Agriculture, toxic organic and inorganic compounds find their way to enter into the environmental streams. Therefore, it is critical to examine the levels of pesticides.



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A Review on Optical Computing

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Abstract

Optical Computing is an interesting area where various brilliant features of light are exploited. Major categories of optical computing are, analog optical computing and digital optical computing. In this review article some basis of digital optical computing techniques have been focused such as adders, subtractors and matrix manipulations. This study is reviewed on the basis of these operations performed in non-linear materials.

1. INTRODUCTION

Optical computing is based on idea of using all the properties of speed and parallelism of light in order to process the information at high rates which is in the form of an optical signal. In this article, the focus is on reviewing the various digital optical computing techniques like adder, subtractor and matrix multiplications using the switching characteristic of a non-linear material (NLM) such as photorefractive material [1]. To exploit the switching characteristics of a non-linear material [2-3], four-wave mixing is used. A. K. Das et al. [2] has proposed a technique

REVIEW PAPER ON THE EYESTICK: BOON TO VISUALLY IMPAIRED

Anushka Singh¹, Deeksha Agarwal¹, Pratibha Sangam¹, Prerna Singh¹, Shivani Ranjan¹, Sneha Kabra¹, Yogesh Pratap²

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²Semiconductor Device Research Laboratory, Department of Electronic Science, University of Delhi South campus, New Delhi, India, 110021

Abstract

With the advent of miniaturization in electronics, it is possible to make the lives of the visually impaired people smoother to some extent. It is not feasible to carry a white stick in order to prevent accidents always and ever due to its limitations. With the recent technology, it is feasible to extend the assistance given to people with visual impairment during their mobility. This paper endeavors to achieve an effective understanding for future research, in order to identify salient research directions in this vital social area. The study of previously developed systems and analysis of the implementation methods used is included in this paper which will lead us to define the most relevant system which could overcome the disadvantages in the previous systems. The main motive is to abate the ailment

concluded that HC-SR04 is the best suited ultrasonic sensor for obstacle detection [1]. Integration of ultrasound and microcontroller technology provides a precise non-contact distance measurement. The ultrasonic sensor has a variable sensing angle that varies from 0 to 180 degree at a step of 18 degree [2], this makes obstacle detection useful in narrow space. The time taken by the signal to revert back from the obstacle determines the distance between the sensor and the obstacle. These properties help in detecting both back and front obstacles as well as left and right obstacles. Adding the features of GPS and Voice playback in the guide stick improves the navigation system and makes it more convenient to follow obstacle free path. Furthermore incorporation of RF module to the system helps the subject to find out the lost stick. In this way, ultrasonic sensor assimilated with artificial intelligence



Low Cost Eco-Friendly Solar Inverter.....60

LOW COST ECO-FRIENDLY SOLAR INVERTER – A STANDALONE SOLAR POWER SYSTEM FOR HOUSEHOLDS

*Archana Rainut, Ayushi Chopra, Diksha Pandey, Pratima Kumari, Roopal, Smriti Srivastava, Vaishali Padak
(UG students)*

Faculty Team: Dr Sneha Kabra, Ms Himani Dua, Ms Ritika Chopra

**SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN
(UNIVERSITY OF DELHI)**

ABSTRACT: The demand of renewable, clean, highly efficient and stable power system is on rise due to various environmental factors. The presently available systems are either very expensive, or not efficient enough for large power operations, or are either not standalone. The objective of the proposed work is to develop an eco-friendly inverter which would run completely on solar energy, which can be used to supply power to household appliances in the absence of electricity. The designed system can be used independently without any requirement of external power supply. The key challenge is to make the device at a low cost so that it is easily affordable by common man. The device once developed can also be used in rural areas where there is insufficient power supply.

KEYWORDS: Solar panel, Battery charge controller, DC to AC inverter, Low pass filter, 555 timer, ICs



An Automatic Irrigation System Using Self-Made Soil Moisture Sensors and Android App.1

Proceedings of the second National Conference on Recent Trends in Instrumentation and Electronics

Computation of Bandwidth Utilization in a Network File System

Tina Sachdeva,
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Abstract: There is a huge load of data on the network, which needs to be accessed by a number of systems simultaneously, and bring it on all systems leads to inefficient use of disk space. Further, it also leads to data redundancy and inconsistency. This problem can be solved by a Network File System (NFS) which allows remote hosts to mount file systems over a network and interact with them as though they are present locally. The aim of this research paper is to compute bandwidth utilization in NFS. This paper also describes the method of improving bandwidth utilization by exploiting the common content among different versions of the same file. The effect of this improvement on the bandwidth has also been discussed in the paper.

Keywords: Bandwidth utilization, Computer Networks, Data transfer, Network File System

- frequently used information is stored at a single place and is still accessible.
- Home directories could be set up on the NFS server and made available throughout the network.
- Portable storage devices are not required.
- Data consuming large amounts of space and administrative data may be kept on a single host.

WORKING OF NFS

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Technical Program Chair,
Department of Electronic Sciences,
University of Delhi South Campus

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**Proceedings of
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on
Corporate Social Responsibility:
Sports, Olympism & Global Peace
(NCCSR 2016)
March 15- 17, 2016**

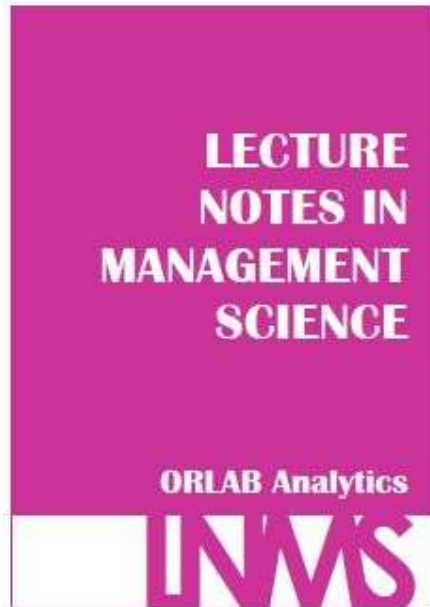
Editor-in-Chief
Dr. Mukesh Agarwal

31. **Sports, Peace, International Understanding and Corporate Social Responsibility**
Dr. (Mrs.) Bimla Pawar

Sports, Peace, International Understanding and Corporate Social Responsibility

Dr. (Mrs.) Bimla Pawar*

Sports is a powerful tool for promoting tolerance, understanding and peace as it brings people together across boundaries, cultures and religions. Teamwork, leadership, fairness, discipline, respect for the opponent are its intrinsic values which are understood and aspired for all over the world and thus can be utilised in the advancement of solidarity, social cohesion and peaceful coexistence on earth. Sports can be an important thread to link peace & understanding with Corporate Social Responsibility (CSR). Lord Holme and Richard Watts define CSR as the continuing commitment by business to behave ethically and contribute to economic development while improving the quality of life of the workforce and their families as well as of the local community and society at large. Sport is a universal language. Everywhere in the world sport plays an important role in society, for it is capable of conveying basic rules and essential values of peaceful coexistence – such as tolerance, team spirit, loyalty and fair play. In addition, sport is accessible to all.



Benchmarking efficiency of Delhi Transport Corporation: a data envelopment analysis approach

Punita Saxena¹

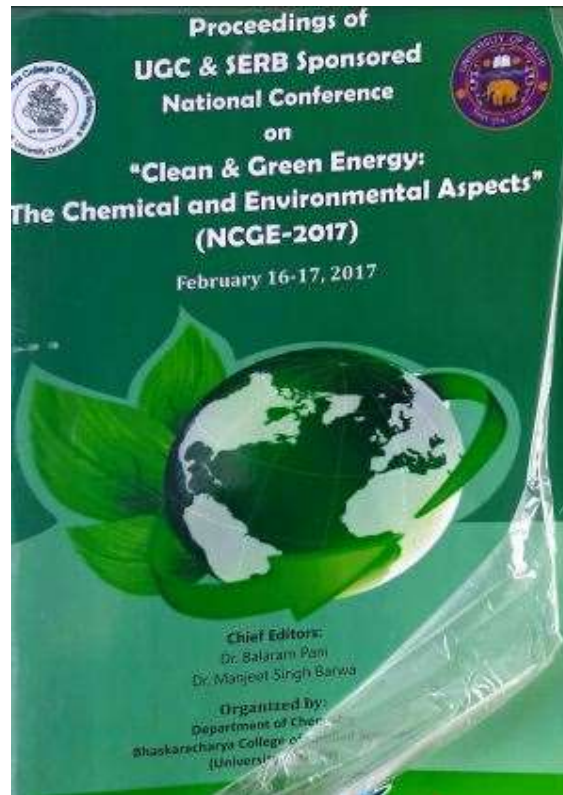
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Vasundhara Enclave, Near Chilla Sports Complex, New Delhi, Delhi 110096, India
punita.saxena@rajguru.du.ac.in

Proc. ICAOR 2016
Rotterdam, The Netherlands

Abstract

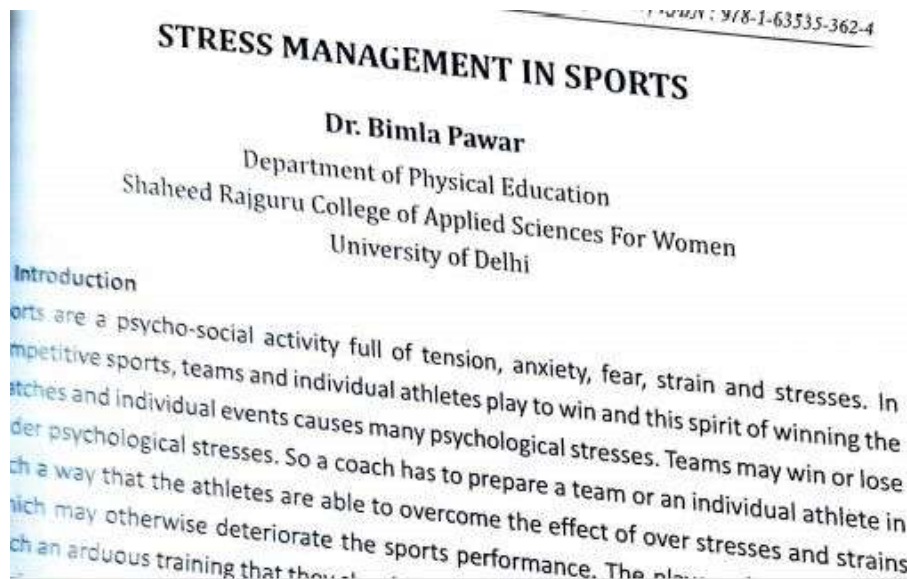
Keywords:
Benchmarking
Data Envelopment Analysis
Efficiency evaluation
Public Transport

Transport sector is a very crucial sector for any developing economy. The economic life of a country is dependent largely on this sector. Growing economy leads to more job opportunities and movement of people from rural to urban areas. The urban cities have to optimize their resources to meet the rising needs in terms of available infrastructure and resources. This paper discusses the efficiency of Delhi Transport Corporation (DTC) using the technique of DEA. A data set of 37 State Transport Undertakings of India have been considered for the study. It was observed that DTC is one of the worst performers that need special attention to improve its efficiency amongst its peers. It showed a technical inefficiency of 51.32% and was operating on decreasing returns to scale. It was also observed that DTC needs to decrease its total cost by 19% apart from increasing its output in order to attain the level of efficiency. Regression analysis was performed to identify the explanatory variables for reduction in its total cost.



✓ Stress Management in Sports
Dr. Bimla Pawar

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[IWPSD: International Workshop on the Physics of Semiconductor and Devices](#)

The Physics of Semiconductor Devices

Proceedings of IWPSD 2017

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R. K. Sharma, D.S. Rawal

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Resonant and Non-resonant Solutions of the Non-linear Vibration of SWCNTs Embedded in Viscous Elastic Matrix Using KBM Method

Ayub Khan, Monika Tyagi, Mushahid Husain, Samina Husain

Pages 89-98

Chapter 15 Resonant and Non-resonant Solutions of the Non-linear Vibration of SWCNTs Embedded in Viscous Elastic Matrix Using KBM Method



Monika Tyagi, Ayub Khan, Mushahid Husain and Samina Husain

Abstract The vibrational analysis of single wall carbon nanotube embedded in viscous elastic matrix has been investigated. The Euler Bernoulli model of non-local continuum theory is used and theoretical dynamic response under parametric excitation is studied. The resonant and non-resonant solutions in the response are analytically studied using Krylov Bogoliubov and Mitropolsky method.

INDIAN SOCIETY FOR BUDDHIST STUDIES (ISBS)

List of Accepted Abstracts for Presentation in the 17th Annual Conference at Sanchi University of Buddhist-Indic Studies, Barla, Raisen (M.P.) during 13-15 October, 2017.

S. No.	Name of the Delegate	Place	Title of the Proposed Paper
1.	Prof. KTS Sarao	Delhi	First Encounters of Indian Buddhists and Hindus with Islam
2.	Dr. Anirban Sengupta	Kolkata	Common Religious Beliefs of Ancient India as Revealed through Pali
3.	Dr. Ambalicka Sood Jacob	Patiala	Poetic Symbols: With Special Reference to Buddhacarita by Aśvaghōṣa
4.	Dr. Suresh Kumar	Delhi	Mettā and Karuṇā— Buddhist Tools for Reformation of Criminals
5.	Dr. Chayanika Singh	Kolkata	Buddha and Freud in Our Everyday Life
6.	Dr. Poonam Surie	Delhi	Kumārajīva and Huiyuan: A Buddhist Connection between India and China
7.	Dr. Niharika Labh	Delhi	बौद्ध अध्यात्मिक साधना में तप
8.	Dr. Amita Kapoor	Delhi	Mettā: A pathway to Global Peace

Mettā: A pathway to Global Peace

October 2017

Conference: INDIAN SOCIETY FOR BUDDHIST STUDIES - At: Sanchi University of Buddhist-Indic Studies, Sanchi, Barla, Dist-Raisen (M. P.), India - Volume: 17th Annual Conference

Project: [How brain, mind works](#)

Project: [How brain, mind works](#)

Authors:



Narotam Singh



Amita Kapoor
University of Delhi

Abstract

According to the Theravada, Mettā or maitrī (Sanskrit) is the first of the four Brahmavihāras and one of the ten pāramīs. Research in the nascent field of positive psychology provides empirical evidence that positive emotion like loving-kindness broadens a person's attention and thinking, builds the quality of their interpersonal relationship; increases optimism and tranquility and strengthens cognitive and learning abilities. World since time immemorial has been afflicted upon by hate, jealousy, wars, and conflicts. Many great persons have tried to reduce them, some succeeded to a certain level. In this paper, we explore that can mettā be a way to achieve Global Peace, effectively and in a more permanent way. We extrapolate the experiential work by Fowler and Christakis. Their 20-year experimental research proved that happiness, like health is a contagious phenomenon. We propose that like happiness, mettā too is contagious. If more and more people are inducted into mettā through the practice of meditation, those people and their immediate family members too will develop mettā, and once a critical number of individuals develop mettā the world can become a better place and Global Peace can be achieved. We explore the suttas of Tipitika and experiential results of positive Psychology to prove our proposition. Buddha himself had said to his



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**World Congress
on
Disease, Health & Society:
Issues, challenges,
(Global Health: 2017)**

Conference Proceedings

**Editor:
Dr G C Mishra**

Published By:
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World Congress on Disease, Health & Society: Issues, challenges, (Global Health: 2017)

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Lavika Singh and Mansi Manchanda

Mobile Application to Track Nutritional Intake- a Smart Step towards Nutritional Security through m-Health

Para Dholakia¹, Deepali Bajaj², Asha Yadav³, Disha Gupta⁴, Kaavya Raveendran⁵,
Lavika Singh⁶ and Mansi Manchanda⁷

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Abstract—Millions of people in India are affected by malnutrition. Overweight, obesity, hypertension and diabetes are widely prevalent in the population. At the same time, people are suffering from micronutrient deficiencies. This dual burden of malnutrition poses serious health risks. There are many means of nutritional education. However, in today's fast paced technology driven world, it becomes imperative that we make use of the technology to educate people about their nutritional requirements. Thus, we have developed a mobile application called 'Health Buddy' which tracks nutritional intake of the users. In the first phase, the app was developed in which a large number of cooked foods and their Energy, protein, fat, fibre,

population is not only desired but also vital to attain a certain amount of progress. This important issue needs immediate attention as soon it will be considered as a major cause of concern. The current lifestyle of the youth promotes insufficient nutrient intake thereby easily making way for nutritional problems to set in. For around 20% of the planet's population, lack of food and malnutrition are the main impediments to healthy eating [1]. Hence promoting healthy eating habits is a good way to start battling this problem. Nutritional recovery, particularly takes time, hence a step

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Pages 1-835



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ISBN: 978-1-5090-3039-2

**ANDROID BASED NUTRITIONAL INTAKE TRACKING APPLICATION FOR HANDHELD
SYSTEMS**

442

*Deepali Bajaj ; Asha Yadav ; Bhawna Jain ; Deeksha Sharma ; Diksha Tewari ; Dinika Saxena ; Disha Sahni ;
Preetanjali Ray*

Android based nutritional intake tracking application for handheld systems

Year: 2017, Volume: 1, Pages: 1-7

DOI Bookmark: [10.1109/ICCCNT.2017.8203977](https://doi.org/10.1109/ICCCNT.2017.8203977)

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Bhawna Jain, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

Deeksha Sharma, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

Diksha Tewari, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

Dinika Saxena, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

Disha Sahni, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

Preetanjali Ray, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

In the view of developing technology, changing lifestyles and busy schedules, people often tend to neglect their health. This has led to an outcry about health related issues among all age groups. The youngsters are the major victims of health problem as their uneven schedule makes it difficult to keep track of nutritional value of their meal intake and maintaining daily health record manually. Since, it is a

2017 International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN 2017)

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DESIGNING OF AN APPLICATION FOR GROUP BASED COORDINATION FOR INFORMATION EXCHANGE IN AD-HOC NETWORKS 66

Tina Sachdeva ; Aakanksha ; Neha Garg ; Shivani Digari ; Himani Kaira ; Shivani Tiwary ; Dolly ; Neerajpreet Kaur ; Bhavna Goel ; Priya Naib ; Chhavi Jain ; Shivani Jain ; Shreyta Rajan

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Designing of an application for group based coordination for information exchange in Ad-hoc networks

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Full
Text Views



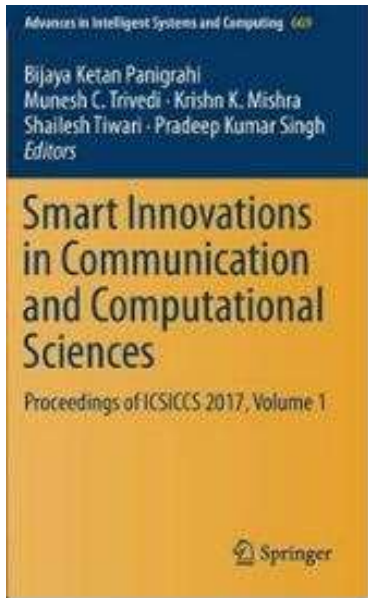
Abstract

Document Sections

- I. Introduction
- II. Related Work
- III. Methodology

Abstract:

This paper presents the design and implementation of an Android based application named ComFree for group based coordination for information exchange in ad-hoc networks. The motive is to help users to exchange context based information anytime anywhere without Internet connectivity using infrastructure-less Mobile Ad-hoc Networks (MANets). The application ComFree has been successfully implemented and tested using different smart phones. The concept of dynamic mobility is also supported in ad-hoc networks as nodes constantly move from one place to another and any node can join the network and can also leave at any time. At the same time these nodes can act as host/router or both. The application can be installed



Chapter

Analysis of Hypertext Transfer Protocol and Its Variants: Proceedings of ICSICCS 2017, Volume 2

January 2019

DOI: [10.1007/978-981-10-8971-8_17](https://doi.org/10.1007/978-981-10-8971-8_17)

In book: Smart Innovations in Communication and Computational Sciences (pp.171-188)

Authors:



Aakanksha



Bhawna Jain



Dinika Saxena



Disha Sahni

[Smart Innovations in Communication and Computational Sciences](#) pp 171-188 | [Cite as](#)

Analysis of Hypertext Transfer Protocol and Its Variants

Authors

Authors and affiliations

Aakanksha , Bhawna Jain , Dinika Saxena, Disha Sahni, Pooja Sharma

Conference paper

First Online: 12 July 2018

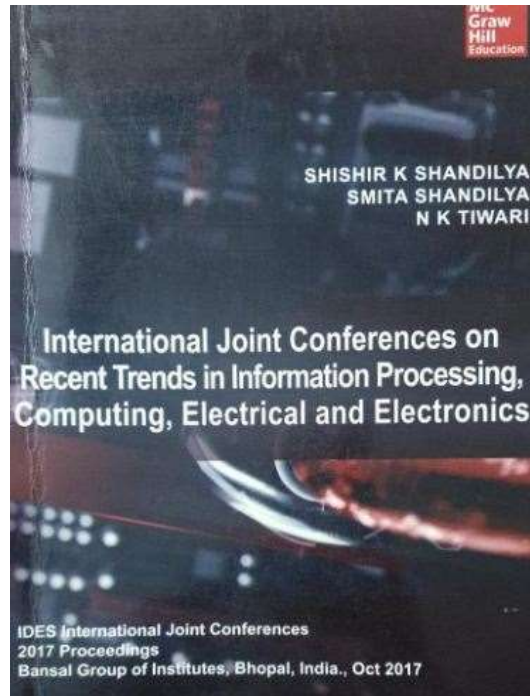
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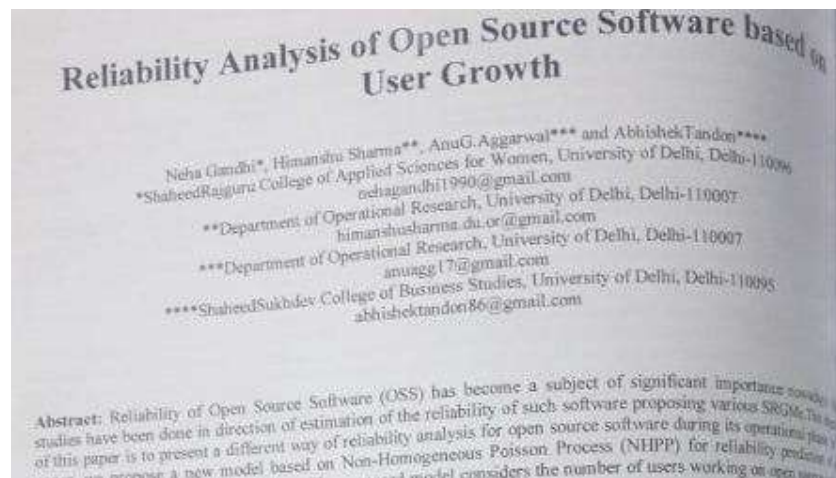
Abstract

With massive amounts of information being communicated and served over the Internet these days, it becomes crucial to provide fast, effective, and secure means to transport and save data. The previous versions of the Hyper Text Transfer Protocol (HTTP/1.0 and HTTP/1.1) possess some subtle as well as several conspicuous security and performance issues. They open doors for attackers to execute various malicious activities [1]. The final version of its successor, HTTP/2.0, was released in 2015 to improve upon these weaknesses of the previous versions of HTTP. This paper discusses the issues present in HTTP/1.1 by simulating attacks on the vulnerabilities of the protocol and tests the improvements provided by HTTPS and HTTP/2.0.



77. Reliability Analysis of Open Source Software based on User Growth
Neha Gandhi, Himanshu Sharma, Anu G Aggarwal and Abhishek Tandon

503-509





Reliability Growth Modeling for OSS: A Method Combining the Bass Model and Imperfect Debugging

Neha Gandhi, Himanshu Sharma, Anu G. Aggarwal, Abhishek Tandon


Pages 23-34

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Reliability Growth Modeling for OSS: A Method Combining the Bass Model and Imperfect Debugging

Authors

Authors and affiliations

Neha Gandhi , Himanshu Sharma, Anu G. Aggarwal, Abhishek Tandon

Conference paper

First Online: 19 June 2018

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Citations

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Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 669)

Abstract

In this highly competitive era of technology, for software to sustain in the market, it has to maintain its quality. Software reliability is one of the metrics to determine software quality. As very few efforts are spent on testing open source software, the reliability of open source software hugely depends on the number of users working on it after release. This study proposes new non-homogeneous Poisson process-based software reliability growth models incorporating factor of user growth in reliability growth of open source software. To represent user growth phenomenon in the proposed SRGMs, the Bass diffusion and Kenney's models are used. The models are proposed for scenarios of both imperfect debugging and perfect debugging. Reliability analysis is carried out on real-world failure dataset (GNOME 2.0), and a parallel comparison among all SRGMs on four goodness-of-fit criteria (mean square error, coefficient of determination, predictive ratio risk, and predictive power) is performed. It is observed that SRGMs which are considered imperfect debugging outperforms its perfect counterpart which is consistent with realistic situations.

**2017 6th International Conference
on Reliability, Infocom
Technologies and Optimization
(Trends and Future Directions)
(ICRITO 2017)**

**Noida, India
20-22 September 2017**



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ISBN: 978-1-5098-3013-2

20. Estimating Reliability for OSS: An approach with Change-point in Operational Phase

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Neha Gandhi, Neha, Anu G. Aggarwal, Abhishek Tandon

Estimating Reliability for OSS: An approach with Change-point in Operational Phase

Neha Gandhi¹, Neha², Anu G. Aggarwal³, Abhishek Tandon⁴

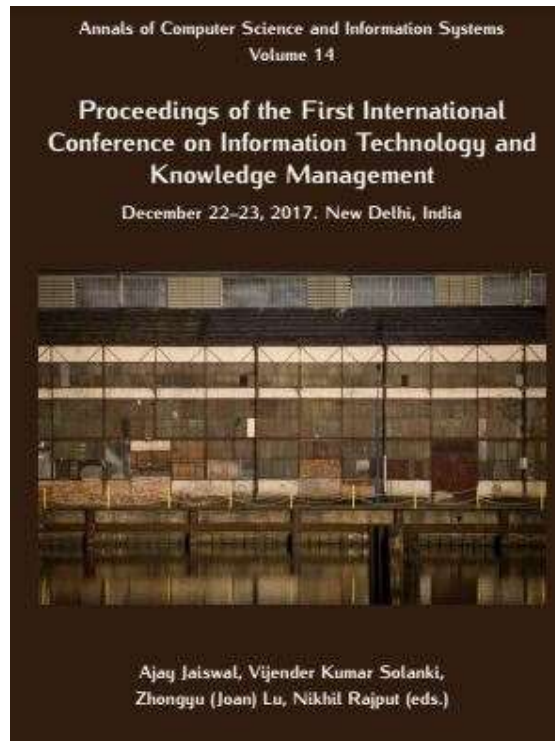
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⁴*Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi-110089, India*
⁴*abhishektandon86@gmail.com*

Abstract — Software reliability growth models (SRGMs) proposed on the foundations of Non-Homogenous Poisson Process (NHPP) have been the most accepted way to analyze reliability growth of a software since 1970's. Henceforth, Literature witnesses the evolution of SRGMs in terms of different assumptions, parameters, performance etc. This study is an attempt to model reliability growth phenomenon for Open Source

process for an OSS is usually initiated by a single person or a small group with some idea who start working towards it and as soon as a basic prototype is available, it is released in public for further development and debugging. Open source software development (OSSD) significantly differs from development life cycle followed by closed source software. In contrast to



Proceedings of the First International
Conference on Information Technology and
Knowledge Management
December 22–23, 2017. New Delhi, India

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and Imperfect Debugging**

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Neha Gandhi, Neha Gondwal, Abhishek Tandon



Proceedings of the First International Conference on Information Technology and Knowledge Management pp. 53–58 DOI: 10.15439/2018KM48 ISSN 2300-5963 ACSIS, Vol. 14

**Reliability Modeling of OSS Systems based on
Innovation-Diffusion Theory and Imperfect Debugging**

Neha Gandhi¹, Neha Gondwal², Abhishek Tandon³

¹*Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, India*

²*Department of Operational Research, University of Delhi, India*

³*Shaheed Sukhdev College of Business Studies, University of Delhi, India*

¹*nehagandhi1990@gmail.com, ²neha28gondwal@gmail.com, ³abhishektandon86@gmail.com*

Abstract—Open Source Software (OSS) has obtained widespread popularity in last few decades due to the exceptional contribution of some well established ones like Apache, Android, MySQL, LibreOffice, Linux etc. not only in the field of information technology but also in other sectors such as research, business and education. These systems are characterized by a huge shift in development pattern they adopt in comparison to proprietary software. Reliability modeling for such

A. Characteristics of OSS

- **Unclear Requirements:** OSS development doesn't witness a dedicated requirement elicitation phase where requirements are documented as in case of closed software. Here, development just starts with a single developer or a small group with a random idea. Requirements are not properly framed and

<p>R. K. Sharma · D. S. Rawal <i>Editors</i></p> <h1>The Physics of Semiconductor Devices</h1> <p>Proceedings of IWPSD 2017</p> <p> Springer</p>	
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Resonant and Non-resonant Solutions of the Non-linear Vibration of SWCNTs Embedded in Viscous Elastic Matrix Using KBM Method

Authors

Authors and affiliations

Ayub Khan, Monika Tyagi, Mushahid Husain, Samina Husain 

Conference paper

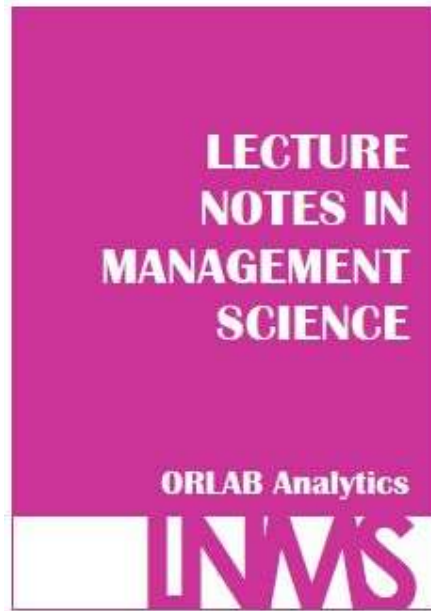
First Online: 01 February 2018

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Abstract

The vibrational analysis of single wall carbon nanotube embedded in viscous elastic matrix has been investigated. The Euler Bernoulli model of non-local continuum theory is used and theoretical dynamic response under parametric excitation is studied. The resonant and non-resonant solutions in the response are analytically studied using Krylov Bogoliubov and Mitropolsky method.



49. [Benchmarking state road transport undertakings of India: a DEA-based stepwise approach](#)
P. Saxena

Conference Paper

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Benchmarking State Road Transport Undertakings of India: A DEA-based stepwise approach.

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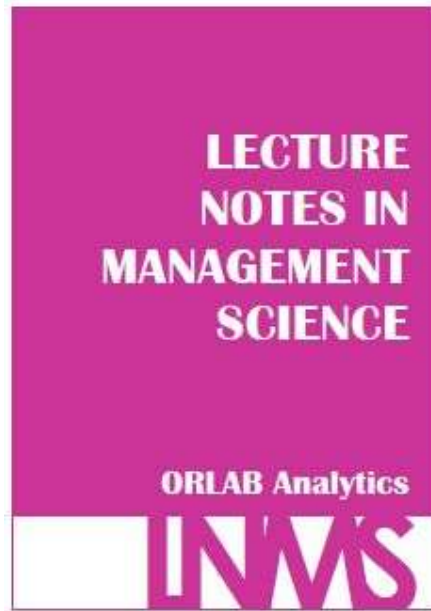
Conference: 9 th International Conference on Applied Operational Research (ICAOR 2017) · At: Chung Yuan Christian University Taoyuan, Taiwan

Authors:



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Shaheed Rajguru College of Applied Scien...



57. [An application of matrix games with trapezoidal intuitionistic fuzzy pay offs to transportation problem](#)
RR Saxena, R Chopra, and S Kumar

Conference Paper

An Application of Matrix Games with Trapezoidal Intuitionistic Fuzzy Pay Offs to Transportation Problem

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Ratnesh Rajan Saxena
University of Delhi



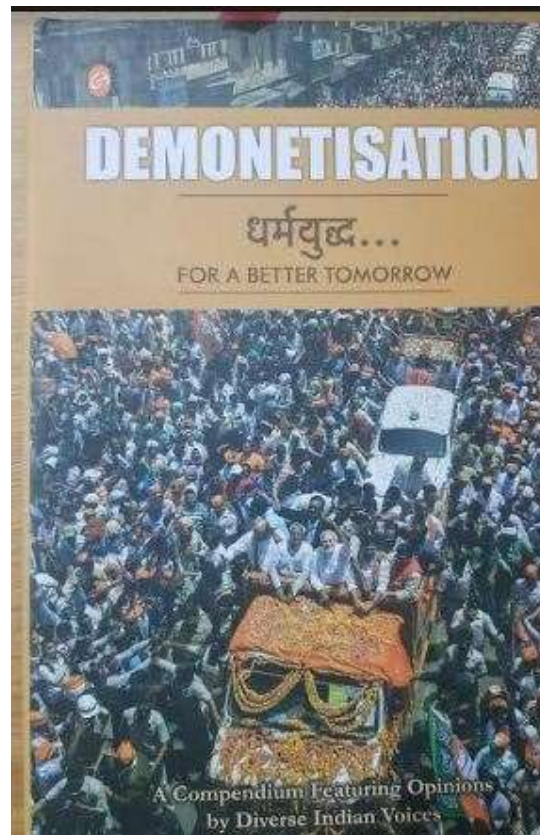
Ritika Chopra
University of Delhi



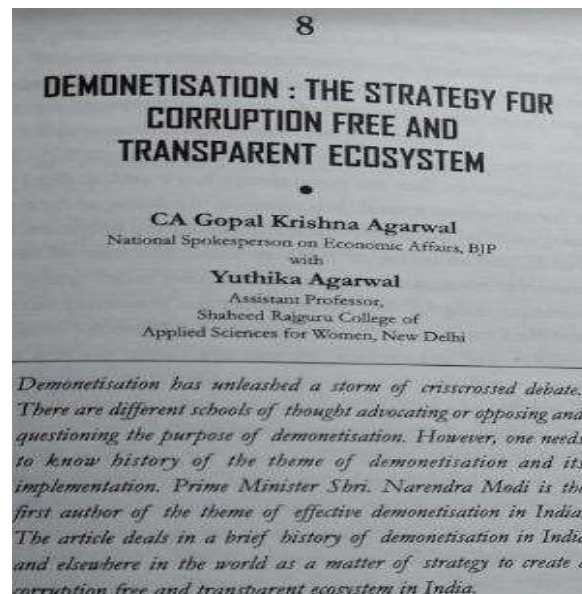
Sanjiv Kumar

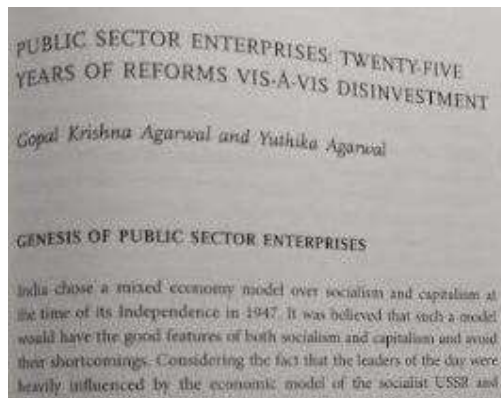
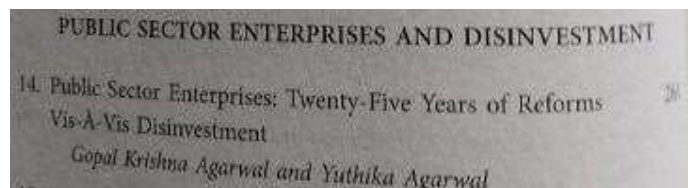
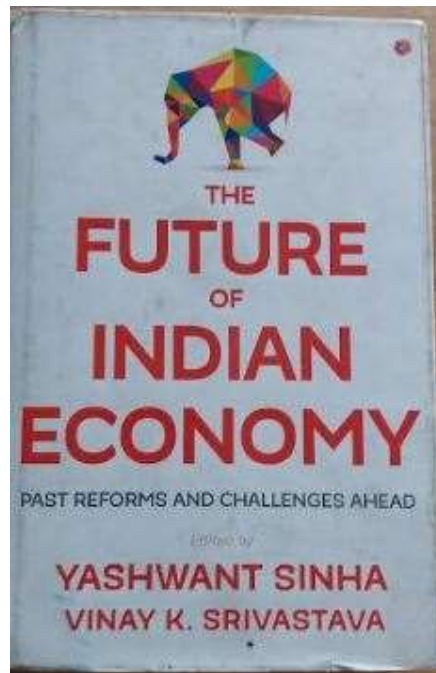
Abstract

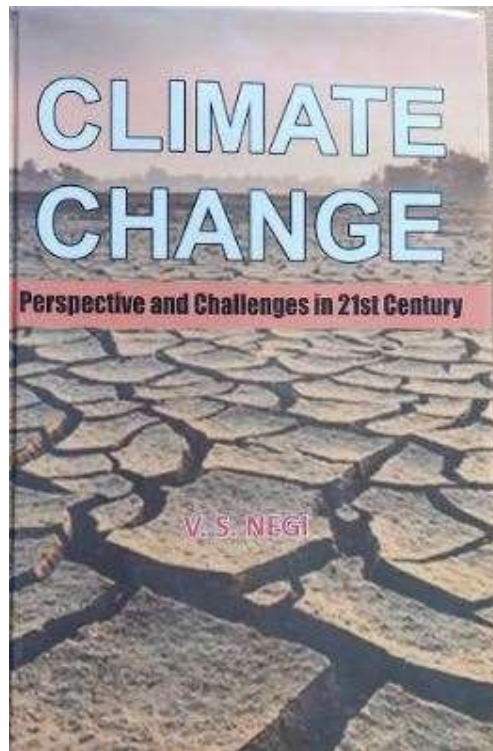
Abstract: In this paper, a two person zero sum game, with payoffs expressed as trapezoidal intuitionistic fuzzy numbers is considered. Trapezoidal intuitionistic fuzzy numbers (TriFNs) are defined in a more general way by relaxing the normality condition in the definition. The generalized trapezoidal intuitionistic fuzzy numbers (GTriFNs) are converted to interval valued fuzzy numbers by taking (α, β) -cuts. Then a new ranking index is introduced which gives a saddle point (if it exists) in an effective way. Numerical examples are provided to illustrate the proposed methodology. Further, the proposed ranking technique is applied to a transportation problem to get a fuzzy optimal solution using MODI method. Keywords: Two person zero-sum game, fuzzy payoff, Trapezoidal intuitionistic fuzzy number, (α, β) -cut, ranking index, saddle point, transportation problem.



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CHAPTER - 14

SANITATION AS AN ADAPTATION TO
MITIGATE CLIMATE CHANGE

YUTHIKA AGARWAL AND NAVNEET MANCHANDA

INTRODUCTION

Adaptation refers to adjustments in ecological, social or economic system. It refers to change in processes, practices and structures to moderate potential damages. Enhancement of adaptive capacity reduces vulnerabilities and promotes sustainable development.

PROCEEDINGS

4th National Conference on Physical Education & Sports Sciences

(Under the Aegis of Ministry of Youth Affairs & Sports)

9-10 February 2018, New Delhi

Organized by

Physical Education Foundation of India

Nutrition And Sports Performance / Dr. Bimla Pawar, Ms. Aarzo Jangra

Physical Education Foundation of India

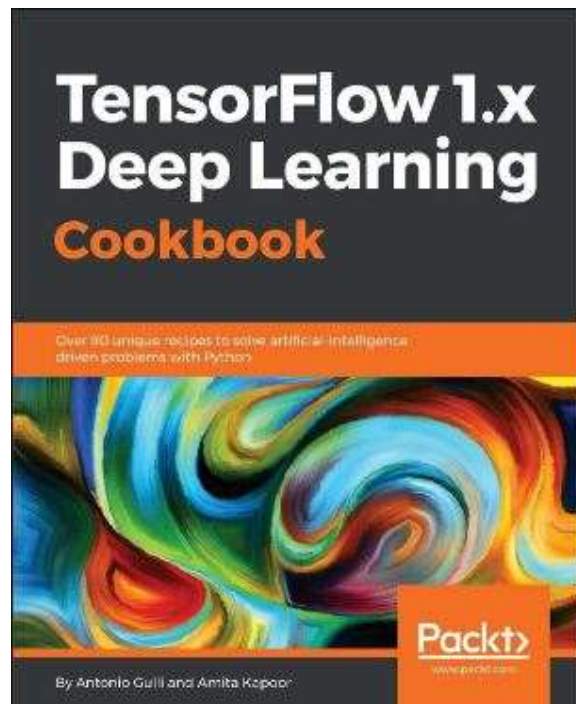
4th National Conference

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NUTRITION AND SPORTS PERFORMANCE

Dr. Bimla Pawar* Ms. Aarzo Jangra**

INTRODUCTION
Nutrition is the study and practice of nutrition and diet related to athletic performance. It is concerned with the quantity and quality of food including fluid to be consumed by an athlete. Success in sports depends on many factors, namely, genetic endowments, state of training and nutrition. As genetic make cannot be changed, especially, genetic endowments and nutrition are the major means to improve athletic performance.
The kind of food for exercise and sports, building strength and endurance has been an ancient phenomenon. Originally, it seems that the only sportsmen who took nutrition seriously were the body-builders. Other sportsmen and now in activities such as cricket, football, athletics, swimming, tennis and most others, also take nutrition as training.



TensorFlow 1.x Deep Learning Cookbook

★★★★☆ 4.2 (5 reviews total)

By Antonio Gulli , Amita Kapoor

**2018 4th International Conference
on Devices, Circuits and Systems
(ICDCS 2018)**

**Coimbatore, India
16 – 17 March 2018**



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- 46 **Performance Analysis Of Metalloid Source/ Drain GaAs-FinFET For Analog/Rf Applications** 219
Yogesh Pratap, Reshma Sinha, Praveen Pal, Sachin Kumar, Sarul Malik and Sneha Kabra

Fourth International Conference on Devices, Circuits and Systems (ICDCS'18)

**PERFORMANCE ANALYSIS OF
METALLOID SOURCE/ DRAIN GaAs-
FinFET FOR ANALOG/RF
APPLICATIONS**

Yogesh Pratap, Reshma Sinha, Praveen Pal,
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Abstract - In this paper, FinFET device with metalloid source/drain and GaAs channel has been proposed for Analog/RF Applications. Drain current, transconductance, intrinsic gain, device efficiency, cut-off frequency, and V_{IP3} has been analysed by using ATLAS 3D TCAD simulator. A comprehensive comparative analysis has been carried out between

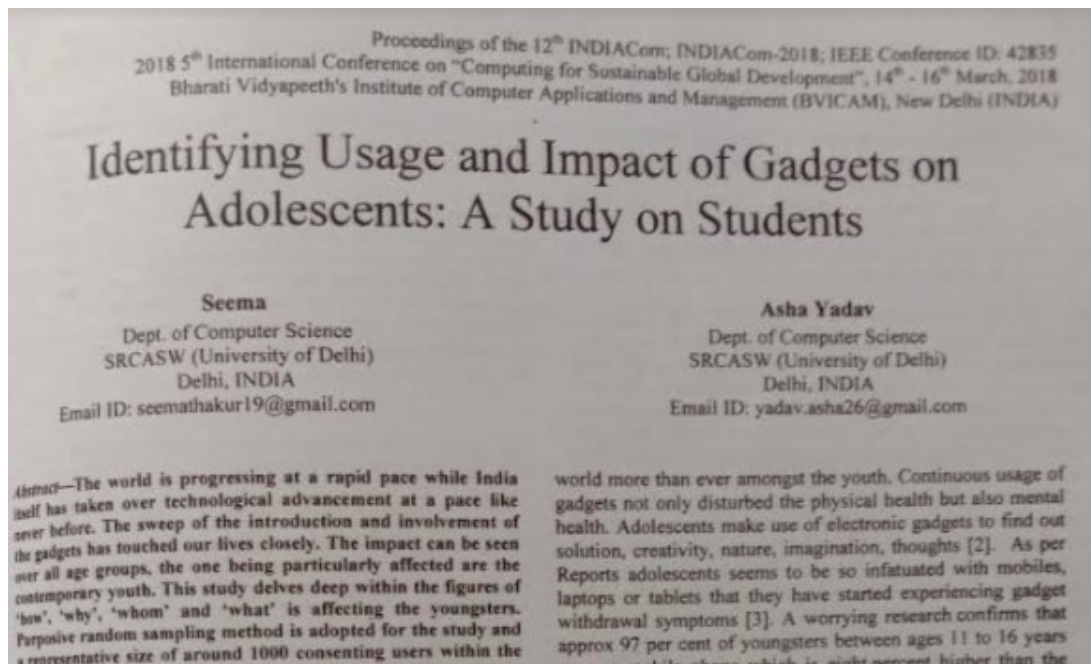
better CMOS compatibility. For better analog/RF applications, a FinFET device should have higher drain current, device gain, cut-off frequency, maximum frequency and transconductance generation factor.

However, FinFET device reduces SCE's but at the same time the β is injection depletion width cannot



39. Identifying Usage and Impact of Gadgets on Adolescents: A Study on Students
Seema and Asha Yadav

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**2018 IEEE Electron Devices
Kolkata Conference
(EDKCON 2018)**

**Kolkata, India
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Manuscript

112. **Analysis of Interface Trap Charges of Double gate Junctionless Nanowire Transistor (DG-JNT) for Digital Circuit Applications** 563-567
Neha Garg, Yogesh Pratap, Mridula Gupta and Sneha Kabra

2018 IEEE Electron Device Kolkata Conference (EDKCON), 24-25 November, 2018, Kolkata, India

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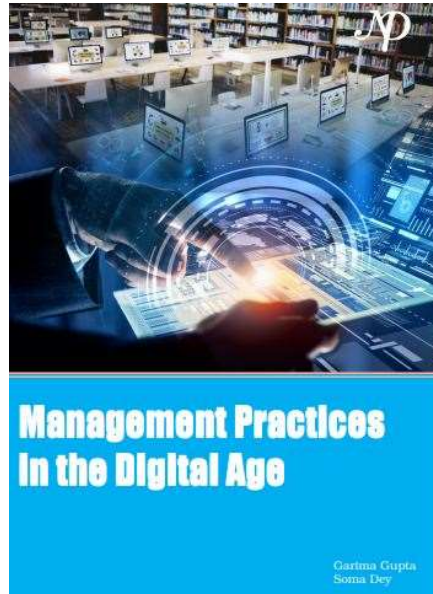
*Analysis of Interface Trap Charges of Double gate
Junctionless Nanowire Transistor (DG-JNT) for
Digital Circuit Applications*

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6. Cultural Intelligence and Occupational Success 61
Dimpy Handa and Jyotika Bahl

6

Cultural Intelligence and Occupational Success

Dimpy Handa* and Jyotika Bahl**

*Ph.D. Scholar, Department of Commerce, Delhi School of Economics, University of Delhi

**Ph.D. Scholar, Department of Business Economics, University of Delhi

Abstract

Withstanding the concept of workforce diversity, organizations are now going deeper in their pursuit to look out for new layers of diversity. In the first, Kochi's metro recently put on board transgender employees. But with adding the unexplored layers of diversity in organizations, complexities of managing them also increase. Success in these situations requires a unique set of skills that comes from being culturally intelligent. Organizations and managers sometimes dismiss cultural intelligence as a set of elusive, soft skills that cannot be measured or taught. But this is the urban myth. That is why, world requires a strategy for assessing and developing cultural intelligence to leverage the opportunities presented by 21st century.

Investigation of Iterative and Direct Strategies with Recurrent Neural Networks for Short-Term Traffic Flow Forecasting

Authors

Authors and affiliations

Armando Fandango , Amita Kapoor

[Investigation of Iterative and Direct Strategies with Recurrent Neural Networks for Short-Term Traffic Flow Forecasting](#)

Armando Fandango, Amita Kapoor

Pages 433-441

Abstract

For more than 40 years, various statistical time series forecasting, and machine learning methods have been applied to predict the short-term traffic flow. More recently, deep learning methods have emerged to show better results for short-term traffic flow prediction. For multi-step-ahead prediction, researchers have used iterative (also known as recursive) and direct (also known as independent) strategies with statistical methods for preparing input data, building models and creating forecasts. However, the iterative and direct strategies are not

**2019 IEEE Conference on
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COMPARATIVE ANALYSIS OF OXIDES TO IMPROVE PERFORMANCE OF DC-MOS-HEMTs 82
Praveen Pal ; Yogesh Pratap ; Mridula Gupta ; Sneha Kabra

2019 IEEE International Conference on Modeling of Systems Circuits and Devices(MOS - AK India 2019)

Comparative analysis of oxides to improve performance of DC-MOS-HEMTs

Praveen Pal¹, Yogesh Pratap¹, Mridula Gupta², and Sneha Kabra^{1*}

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²Semiconductor Device Research Laboratory, Dept. of Electronic Science, University of Delhi South Campus, New Delhi, India-110021, mridula@south.du.ac.in

Abstract— AlGaN/GaN High Electron Mobility Transistors (HEMTs) are considered as good candidate for high power and high speed applications. In this paper, a simulation study has been done to investigate the effect of different gate oxides on double channel DC-MOS-HEMTs (Double Channel Metal Oxide semiconductor HEMTs). The impact of oxide thickness on performance of DC-MOS-HEMT has also been performed. The

frequency measured at 1 dB gain is also higher for DC-MOS-HEMT made using HfO₂ oxide.

II. DEVICE ARCHITECTURE AND SIMULATION

In Figure 1 the complete device structure has been shown along with thickness of each layer used in AlGaN/GaN DC-

MOS-HEMTs. A 21 nm Al_{0.3}Ga_{0.7}N barrier layer has been

NANOSTRUCTURED POLYMER COMPOSITES FOR BIOMEDICAL APPLICATIONS

Edited by
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Micro & Nano Technologies Series

PAGE XIV

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... Anna Svedberg, Anshu Anjali Singh, Mohd Saquib Ansari and Zoheb Karim

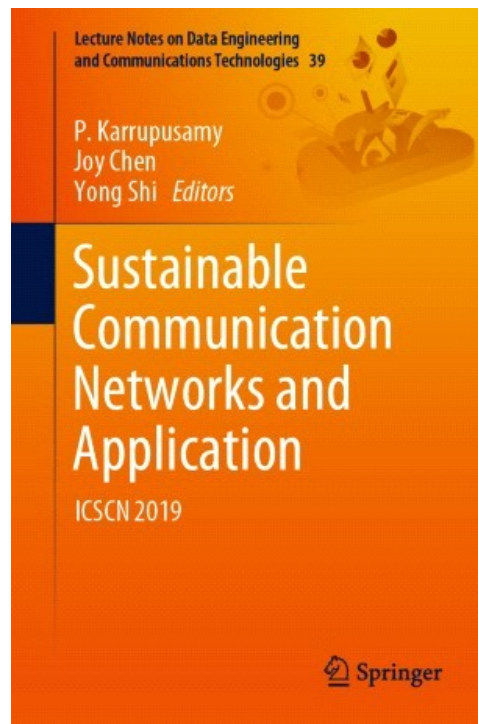
13.1 Introduction

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13.2 Nanostructured Polymers for Drug Conjugates (Polymer-Drug Conjugates)

Abstract

Cancer is the second most common cause of death worldwide after heart diseases, killing approximately 8.9 million people and affecting nearly 17.2 million people every year. The main causes of cancer are radiation, pollution, genetics, and lack of exercise and a balanced diet. Mutations in DNA caused by any of these factors lead to the development of cancer. Cells after mutation lose their regulation, resulting in an astonishing rate of reproduction, overtaking healthy functional cells, and eventually causing death [1, 2]. Although conventional methods such as surgery, chemotherapy, radiation, and/or combinations of these are at the forefront of cancer treatment, there are several drawbacks, including cytotoxic side effects on normal proliferating tissues and the development of multidrug resistance, which restrict the treatment [3, 4]. This toxic reaction occurs because small drug molecules pass through the endothelium and reach targeted cells and also resist that are unaffected by disease. Thus the



Android Based e-Voting Mobile App Using Google Firebase as BaaS

Urmil Bharti, Deepali Bajaj, Tulika, Payal Budhiraja, Meghna Juyal, Sushmita Baral

Pages 231-241

Android Based e-Voting Mobile App Using Google Firebase as BaaS

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Abstract. Making choices and choosing from options are always a part of life and everyone wants options to choose from. Similarly when it comes to voting and elections, it gives power of making choices to the people. Voting is a democratic way of making decisions. Counting Ballots takes a long time that causes delayed results. Furthermore calculating results could be biased and time consuming which causes voters to wait for the results. In today's scenario as everything is racing up and new ideas and inventions are always appreciated

**2019 International Conference on
Computing, Power and
Communication Technologies
(GUCON 2019)**

**New Delhi, India
27 – 28 September 2019**

Pages 1-491



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Chapter No: 54

294-298

Analysis of Sampling Approach to Balance Data for Change Prediction

Ankita Bansal and Abha Jain

Corpus ID: 209497154

Analysis of Sampling Approach to Balance Data for Change Prediction

A. Bansal, Abha Jain · Published 2019 · Computer Science ·

2019 International Conference on Computing, Power and Communication Technologies (GUCON)

Software keeps on evolving due to the changing requirements and demands of the customer. Due to this, nowadays, we have multiple versions of a software. Incorporating any change at a later phase in the software development life cycle leads to investment of lots of resources. In this study, we will develop models to predict the classes which are more prone to changes at a very early stage in software development life cycle. This will allow the developers to focus their attention and resources on... [CONTINUE READING](#)



APPLICATION OF BOOSTING, BAGGING AND BLENDING TO PREDICT SEVERITY OF SECURITY DEFECTS

Ankita Bansal¹, Abha Jain²

Abstract- In today's era where there are continuous virus-alerts along with a threat of cyber terrorism and malicious crackers, defects which hamper the security are bound to enter the system, thereby exposing the system to security vulnerabilities. Thus, dealing with security-related defects is the necessity which needs to be dealt with utmost caution for failure-free functioning of the software. This would in turn lead to an overall benefit of the organization. But, due to limited resources, it is not possible to pay equal attention to all the security-related defects introduced in the software. Thus, security-related defects need to be assigned with an appropriate severity level which would signify the extent to which that particular defect can be harmful for the system. Assigning severity levels to the security-related defects can prove to be very useful as it would help industry professionals to prioritize defects, thereby allocating available resources and man-power to the defects which have a higher severity. Therefore, in the paper, we mine the defect descriptions using text mining techniques and thereafter develop three models corresponding to each severity level of the defects viz. high, medium and low. Due to various advantages of ensemble methods, we have used three popular ensemble methods in this study; i.e. boosting, bagging and blending. Each model is first validated using J48 decision tree classifier and then J48 is used with the above mentioned ensemble methods. We want to investigate whether the performance of J48 improves after using ensemble methods. The results are validated using open-source Apache software, Tomcat. The results showed that the performance significantly improves in majority of the cases when J48 is used with ensemble methods as compared to the performance of J48 alone.

Keywords – Text mining, Security-related defects, Security vulnerabilities, Defect prediction, Ensemble learning

2019 International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT 2019)

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Classification Techniques Used in Sentiment Analysis & Prediction of Heart
Disease using Data Mining Techniques: Review

Himanshu Bansal

200-205

2019 2nd International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT)

Classification Techniques Used in Sentiment Analysis & Prediction of Heart Disease using Data Mining Techniques: Review

Rahul¹, Himanshu Bansal², Monika³

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Abstract—: Sentiment analysis uses data mining methods to extract information and data from the web through natural language processing. This consists of emotion artificial intelligent and text analysis. It basically helps in finding out the polarity of word data which is categorized into negative, positive and neutral. Sentiment extraction from data sources is a difficult task because some data sources may have unstructured format of data. In this review paper, we tried to summarize a number of classification techniques used in sentiment analysis stating some of their advantages and disadvantages, performance and their accuracy.

In this paper, the various data mining techniques used for

Nowadays, heart diseases are one of the main causes of death. In 2008, roughly approximate 18 million have already suffered from this problem which is 31% of calculated worldwide death, making it leading cause of death globally. Some risk factors associated are identified as high blood pressure, high blood cholesterol, diabetes, smoking, overweight, physically inactive, family history, preeclampsia during pregnancy, unhealthy diet and age. Some symptoms of heart disease are chest discomfort, sweating unnaturally and irregular heart beat. But it is not always possible to detect the heart diseases. In this Survey, we are going to discuss various

**2019 Third International
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and Cloud) (I-SMAC 2019)**

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12-14 December 2019**



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***An analysis of Crime data under Apache Pig on
Big Data***

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Aruna Bhat
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Abstract— The most important social problem that occurs all around the world is crime. Crime arousing affects children's development, security of public and socio-economic condition of an adult. Discernment about crime rate factors is demanding for government and policy makers in their try to minimize the crime and boost the civilian's life essence. We analyzing big data related to the crimes and crime rate in our paper. In this paper, we familiarize with social problem of

manufacturing sector, retail, social media and so on. Hugely growth of this data size, it becomes sine qua non to put down, study, analyze, and interpret proximate trends and various patterns to improve decision making. This inefficiency leads to the creation of the name BDA (Big Data Analytics)[5]. BDA[6] a very burdensome process for researching information that is hidden in big data and



Content

Track1: WEB INTELLIGENCE & SEMANTICS, & DATA MINING

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2	Sentiment Analysis on Product Reviews <i>Rahul, Vasundhara Raj, Monika</i> Conferences > 2019 International Conference...	5

Sentiment Analysis on Product Reviews

Publisher: IEEE

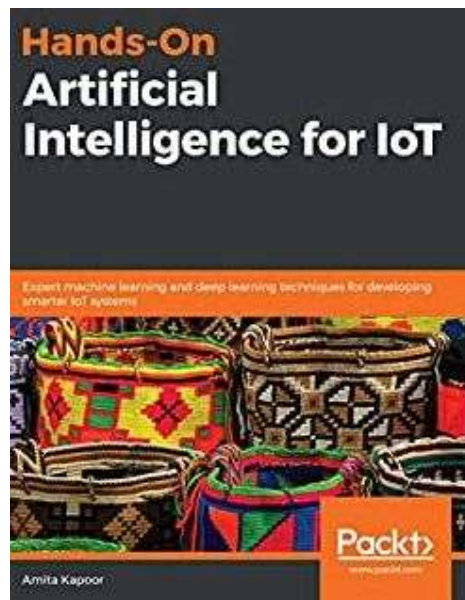
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PDF

Rahul ; Vasundhara Raj ; Monika [All Authors](#)

Abstract:

- Sentiment Analysis is a process of analyzing and categorizing the emotion or sentiment over any given review or text piece in order to know what the reviewer wants to express in the form of positive, negative or neutral. Today, people are highly interested in buying things online from any e-commerce site or they search for a product review in order to know the quality and one's perception toward that product before buying. The product provider also gets to know about the user's opinion over a product. This can help the company to improve its marketing strategy and quality of product in their favor. Sentiment analysis uses various semantic approaches like on these online reviews to extract as much feature it can and categorize



Book

PDF Available

Hands-On Artificial Intelligence for IoT: Expert machine learning and deep learning techniques for developing smarter IoT systems

January 2019

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Authors:






Amita Kapoor
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Preface: Proceedings of the International Conference on Advanced Materials (ICAM2019)

Analytical and computational studies of the nonlinear vibrations of SWCNTs embedded in viscous elastic matrix using KBM method

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2019 International Conference on Power Electronics, Control and Automation (ICPECA 2019)

New Delhi, India
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Comparative Analysis of Dielectric Modulated Junctionless FinFET
Biosensor and Junctionless DG MOSFET Biosensor for Medical
Instrumentation

Rajguru College of Applied
Sciences for Women,
University of Delhi, New
Delhi)

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Comparative Analysis of Dielectric Modulated Junctionless FinFET Biosensor and Junctionless DG MOSFET Biosensor for Medical Instrumentation

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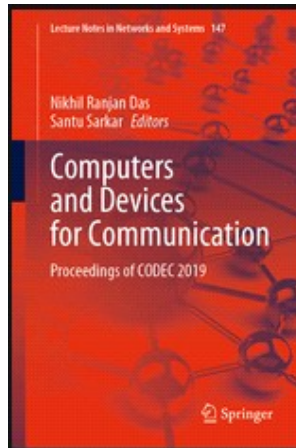
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Abstract— In this work, a comprehensive comparative analysis of a junctionless FinFET and a junctionless double gate (DG) MOSFET as label free biosensor has been carried out. Nanogap cavity is created and filled with different biomolecules having dielectric constant ranging from 1 to 10. Different sensing parameters including threshold voltage, OFF

resulted in an innovative field of research. Biosensor is a device designed to detect different types of biomolecules. Biocomponent (Nucleic Acid, Antibodies, Protein etc) and the transducer (which converts one form of energy to another) are the basic components of a biosensor. FET-



 Chapter and Conference Paper

Impact of Trap Charges and High Temperature on Reliability of GaAs/Al₂O₃-Based Junctionless FinFET

In the present work, the reliability issues of GaAs/Al₂O₃ Junctionless FinFET have been investigated by considering interface trap charges at semiconductor/oxide interface. RF/Analog performance of GaAs/Al₂O₃ Jun...

Neha Garg, Yogesh Pratap, Mridula Gupta... in *Computers and Devices for Communication* (2021)

[CODEC: International Conference on Computers and Devices for Communication](#)

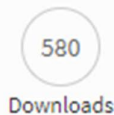
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2019 IEEE MTT-S International Microwave and RF Conference (IMARC 2019)

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PERFORMANCE OF ALGaN/GaN BASED COMMON DRAIN DUAL HEMT (CDD-HEMT) FOR
HIGH POWER APPLICATIONS.....486
Praveen Pal ; Yogesh Pratap ; Mridula Gupta ; Sneha Kabra

Performance of AlGaN/GaN based Common Drain Dual HEMT (CDD-HEMT) for high power applications

Praveen Pal^{#1}, Yogesh Pratap^{#2}, Mridula Gupta^{*3}, Sneha Kabra^{#4}

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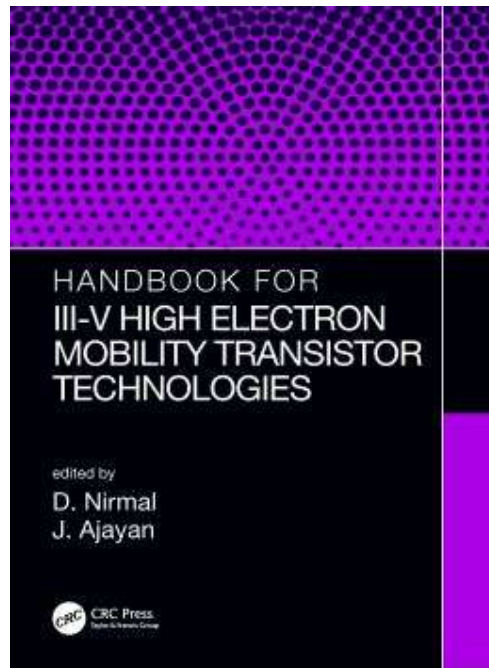
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^{*}*Semiconductor Device Research Laboratory, Department of Electronic Science University of Delhi, South Campus New Delhi, India*

³*mridula@south.du.ac.in*

Abstract- In this paper, two- 2DEG channels of AlGaN/GaN HEMT are created with Common Drain on a single GaN substrate for improving high power performance of the device. The results obtained for Common Drain Dual HEMT (CDD-HEMT) have been compared with conventional HEMT. The results obtained for CDD-HEMT show higher drain current, current gain, cut-off frequency and transconductance. Drain

HEMT two gates and two sources have been considered named as G1, G2 and S1, S2, respectively. The gate contact is made Schottky using Ni/Au metal. Source and drain are ohmic so these contacts have been made with aluminum metal. The complete channel length and gate width for conventional HEMT is 8 μ m and 100 μ m respectively. In case



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9

Current Collapse in AlGaN/GaN HEMTs

Sneha Kabra and Mridula Gupta

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- 9.2 Origin and Properties of Interface and Near Interfacial Traps
- 9.3 Properties and Influence of Surface Traps
- 9.4 Properties and Influence of Bulk Traps
- 9.5 Effect of Temperature on Traps in AlGaN/GaN HEMT
- 9.6 Impact of Traps in AlGaN/GaN HEMT
- References

9.1 Introduction

Group III-V nitride compound semiconductors such as Gallium Nitride (GaN) and Aluminum Gallium Nitride (AlGaN) exhibit distinctive combination of properties like high breakdown field, large energy band gap, good thermal conductivity, high mobility and high saturation velocity. Due to these properties, GaN-based devices outperform existing Si- and SiC-based devices for power electronic applications. There has been a rapid progress in the design and development of GaN-based devices and

Emerging Trends in Information Technology

Contemplating Some Crucial Research Issues

Editor

Dr. Nidhi Arora

Proceedings: Selected Peer Reviewed Research Papers
of
UGC Sponsored National Conference on Emerging Trends in Information Technology
(NCETIT-2019)

held during
1st and 2nd August 2019
at
Kalindi College, University of Delhi, India

- 14 Effect of Training and Development on Employees' Performance 162-166

Dr. Urvasi Sharma, Rableen Kaur Rao & Anjali Siwal

13. **Efficiency Evaluation and Benchmarking of Air Carriers in India for the Year 2016-**

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17 Using Data Envelopment Analysis (DEA)

Bharti Seth, Punita Saxena and Shalini Arora

Efficiency Evaluation and Benchmarking of Air Carriers in India for the Year 2016–17 Using Data Envelopment Analysis (DEA)

Bharti Seth¹, Punita Saxena² and Shalini Arora³

***ABSTRACT:** Paper aims at assessing and benchmarking the operational efficiency of 12 scheduled (domestic and international) passenger airlines in India during the year 2016–17. Efficiency scores (technical, pure technical and scale) are calculated using input-orientation data envelopment analysis models. Super-efficiency and cross-efficiency ranking methods under variable returns-to-scale are implemented to rank the airlines based on their performance to remove the biased nature of standard DEA models. Air India*



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DIRECTORATE OF DISTANCE EDUCATION



M.Sc. [Microbiology]
364 21



MICROBIAL GENETICS

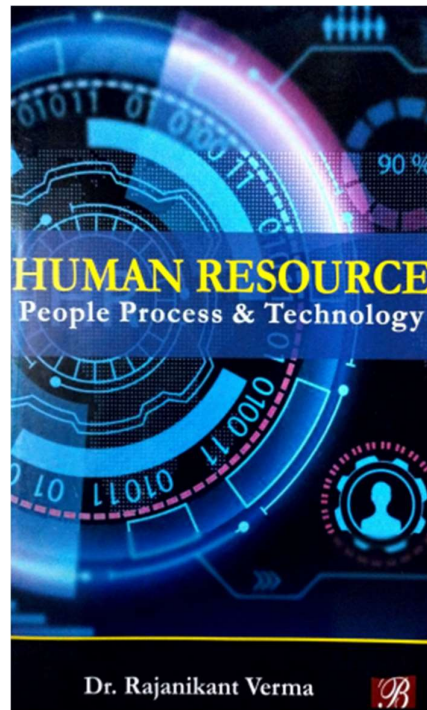
II - Semester

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University of Delhi

Dr Rekha Mehrotra, Associate Professor, Department of Biology, Shaheed Rajguru College of Applied Science for Women,
University of Delhi
Units (7 & 8)



- 14 Effect of Training and Development on Employees' Performance 162-166
Dr. Urvashi Sharma, Rableen Kaur Rao & Anjali Siwal

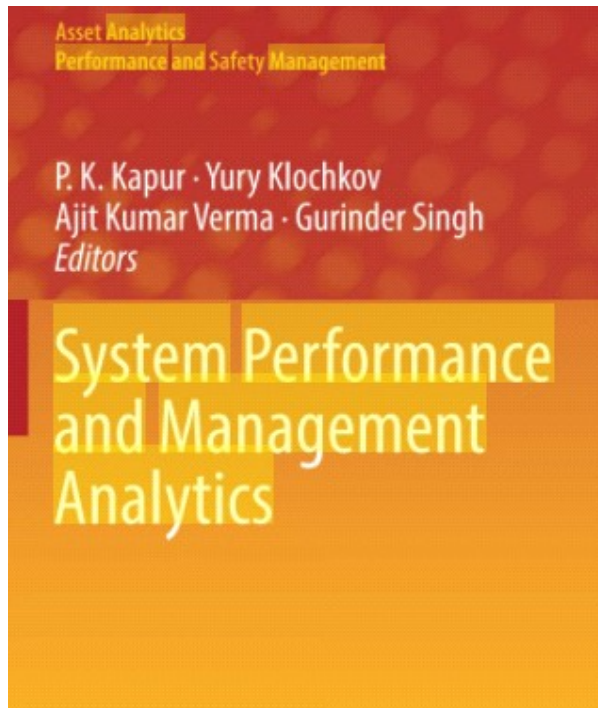
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Effect of Training and Development on Employee Performance

Dr. Urvashi Sharma, Rableen Kaur Rao & Anjali Siwal

ABSTRACT

For any business employee is a blood stream. The success or disaster of the firm and organisation depends on its employee performance. With the use of technology there is a constant need to reskill and upskill knowledge and training & development would play an important role to enrich it. Hence, management understood the importance of investing and spending in training and development for impro-




Reliability Growth Analysis for Multi-release Open Source Software Systems with Change Point 125
Anu G. Aggarwal, Vikas Dhaka, Nidhi Nijhawan and Abhishek Tandon

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Reliability Growth Analysis for Multi-release Open Source Software Systems with Change Point

Authors

[Authors and affiliations](#)

Anu G. Aggarwal , Vikas Dhaka, Nidhi Nijhawan, Abhishek Tandon

Chapter

First Online: 31 July 2018

2

Citations

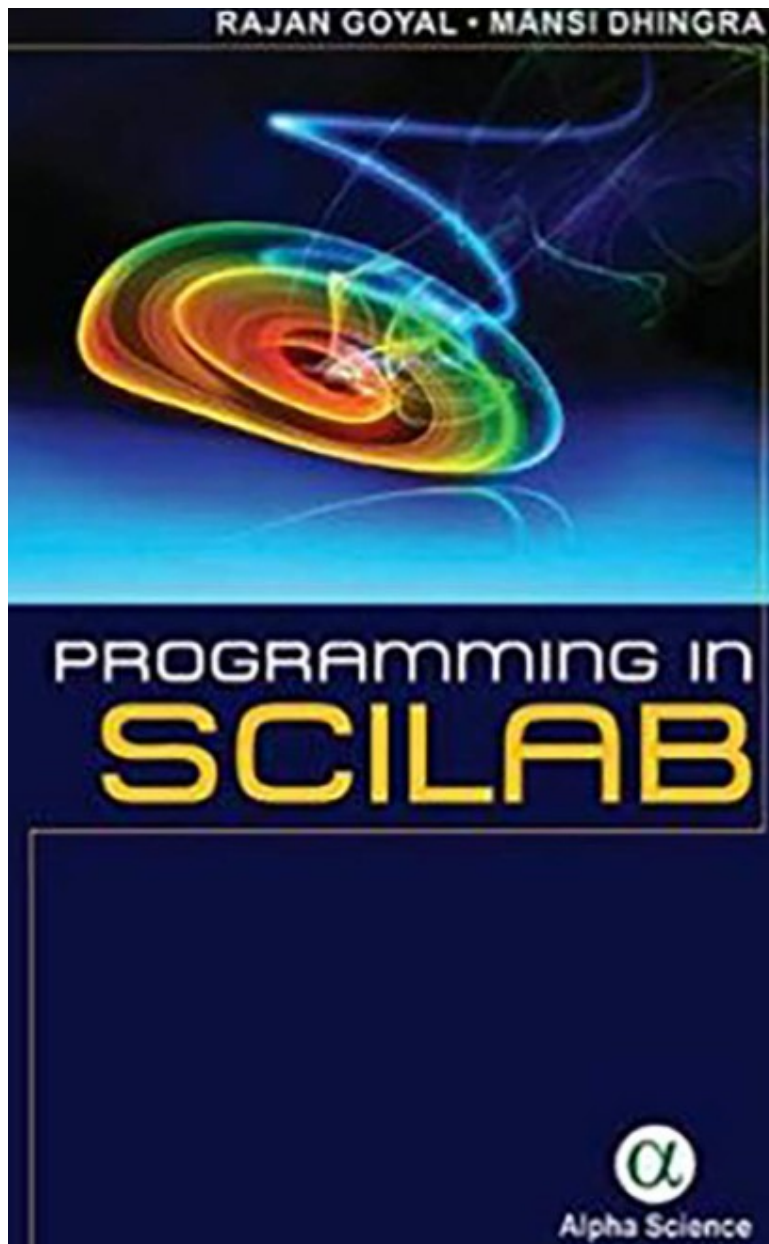
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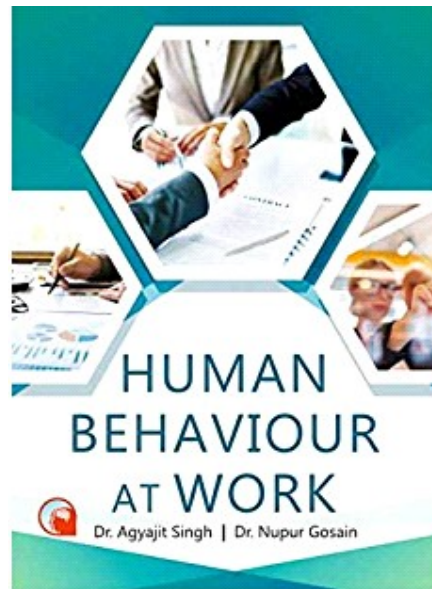
Abstract

Open source software has now become an essential part of the business for huge segment of developers to enhance their visibility in public. Many of the open source communities are continuously upgrading the software through series of releases to improve its quality and efficiency. Here in this paper, general framework is presented to model fault removal process (FRP) for multiple releases of OSS using the concept of change point on discrete probability



Bibliographic information

Title	Programming in Scilab
Authors	Rajan Goyal , Mansi Dhingra
Publisher	Alpha Science International Limited, 2019
ISBN	1783324015, 9781783324019
Length	284 pages



Bibliographic information

Title	Human Behaviour at Work
Authors	Dr. Agyajit Singh , Dr. Nupur Gosain
Publisher	Psycho Information Technologies, 2021
ISBN	9388539125, 9789388539128
Length	204 pages
Subjects	Psychology › Movements › Behaviorism Psychology / General Psychology / Interpersonal Relations Psychology / Movements / Behaviorism Psychology / Social Psychology Self-Help / Personal Growth / General



38. Charm and Benefits of Street Games - Past & Present Scenario	135
Dr. Bimla Pawar	
UGC Sponsored 3rd National Conference	135

Charm and Benefits of Street Games - Past & Present Scenario

Dr. Bimla Pawar

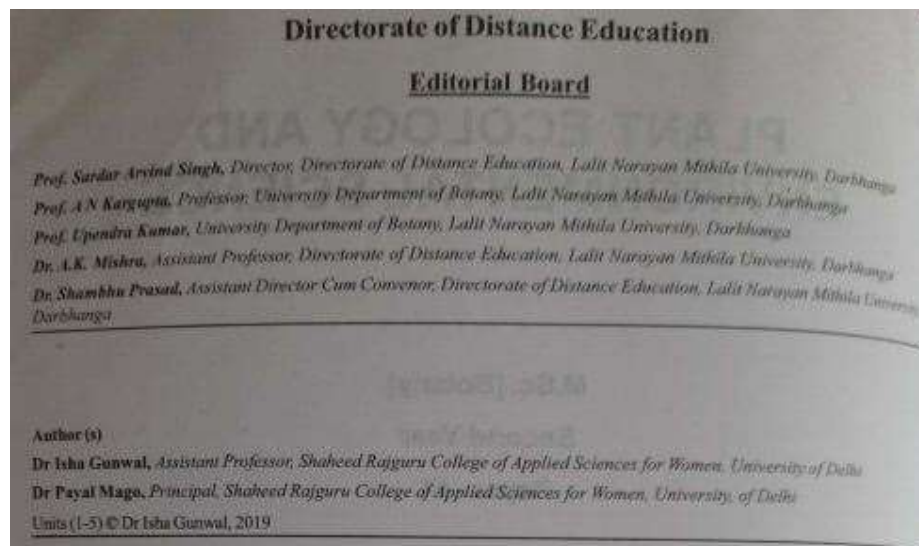
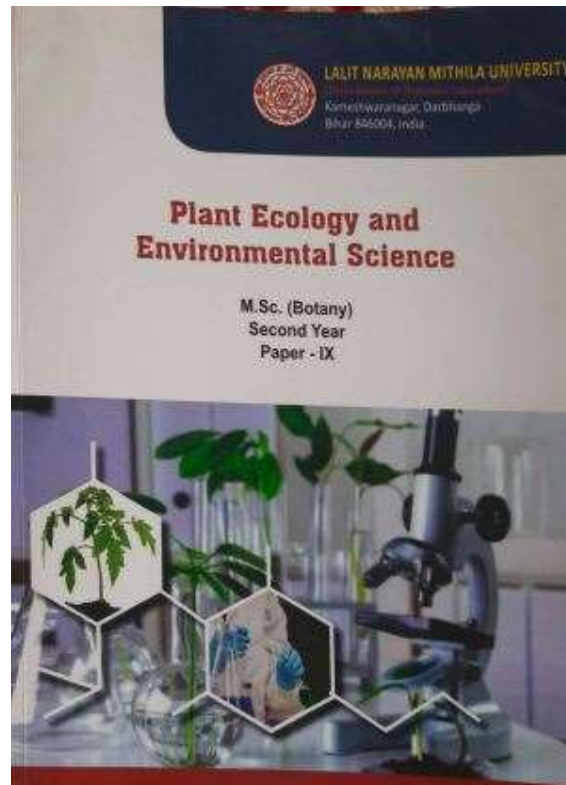
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Shaheed Rajguru College of Applied Sciences For Women
University of Delhi

I Introduction

Childhood Games are so sweet to remember! There was a time when the season of summer was filled with kids playing all sorts of games on the streets. When we were kids we used to play a whole lot of games from street cricket to marbles. As the days passed by, these games have made to the history shelves and the day may come when these games would have unfortunately been forgotten with time.

Street Games are those which are played by own rules and with improvised equipment. These were not just games; rather they were designed in such a way that one could develop lot of skills like logical thinking, strategy, concentration, basic mathematics, aiming, and lot more.

Street games play an important role in developing sports skills. The main purpose of these games is mental & physical refreshment. Street games are very important in the overall development of a child. Playing street games helps a child in improving his / her socializing skills, listening skills as well as verbal skills. And it also helps the



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Comparative Analysis of Junctionless FinFET and Inverted Mode FinFET as Phosphine (PH₃) Gas Sensor

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Abstract— In this work, a comparative analysis of a junctionless mode FinFET and an inverted mode FinFET gas sensor is carried out. The sensors are designed to detect the presence of Phosphine (PH₃) gas. The parameter used to evaluate the concentration of the gas molecules is change in gate work function. The catalytic gate material i.e. palladium is

structure can be Junctionless (JL) or Inverted Mode (IM) device depending upon the variation in doping concentration throughout the channel. The Junctionless transistor is advantageous over inversion mode as it is easy to fabricate for shorter channel lengths, has nearly ideal subthreshold slope and provides immunity to various short channel

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46.	079	PERFORMANCE ANALYSIS OF SCALN/GAN HIGH ELECTRON MOBILITY TRANSISTOR (HEMT) FOR BIOSENSING APPLICATION PRAVEEN PAL, YOGESH PRATAP, MRIDULA GUPTA, SNEHA KABRA, HIMANI DUA SEHGAL	203

Performance analysis of ScAlN/GaN High Electron Mobility Transistor (HEMT) for biosensing application

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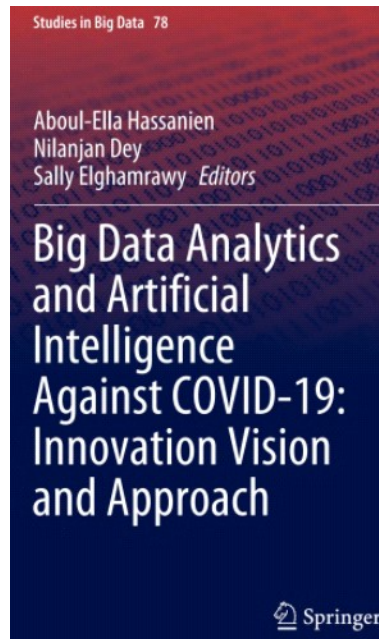
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Abstract— In this work ScAlN film has been used to serve as a barrier in III-Nitride heterojunctions. The reduced lattice mismatch on GaN and better polarization properties of ScAl_xN_{1-x} makes this material a promising candidate for RF biosensing applications. Therefore, in this work a cantilever type structure has been used to design ScAlN/GaN based biosensor. The maximum drain current sensitivity which has been achieved in this work is 0.471

1. INTRODUCTION

In last decade Gallium Nitride (GaN) based semiconductors has played a key role in the field of research for improving the performance of FETs, MOSFETs, MODFETs, FinFETs and high electron mobility transistor (HEMTs) for high power, high frequency and high sensitivity sensor applications. Recently AlGaN/GaN HEMT semiconductor device is playing important role to fulfill the need of a good sensor in various



AI Based Covid19 Analysis-A Pragmatic Approach 191
Prerana Mukherjee and Sarul Malik

2020 | OriginalPaper | Chapter


AI Based Covid19 Analysis-A Pragmatic Approach



Authors: Prerana Mukherjee, Sarul Malik

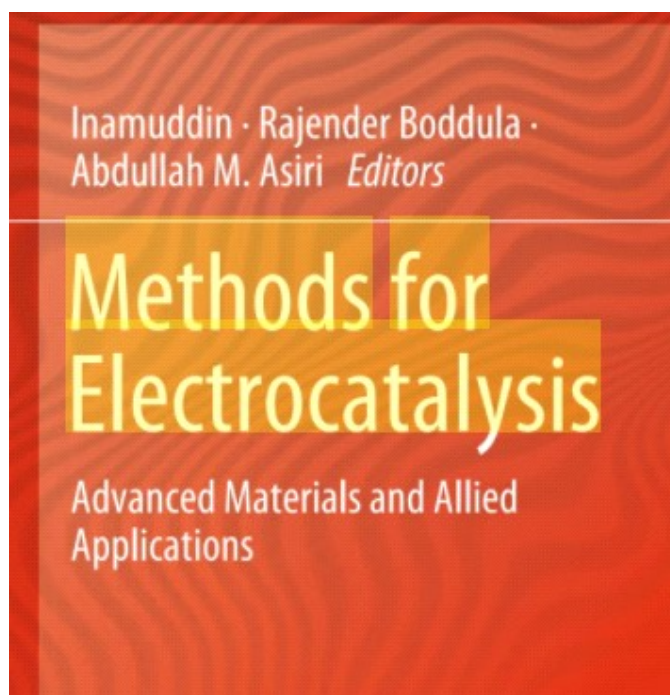
Publisher: [Springer International Publishing](#)

Published in: [Big Data Analytics and Artificial Intelligence Against COVID-19: Innovation Vision and Approach](#)

 [» Get access to the full-text](#)

Abstract

In this chapter, we provide detailed background about Covid-19. Then, we discuss the recent approaches of AI based techniques to prevent and predict Covid-19. We also detail about the forecasting methods for analyzing the trends of the affected patients all over the world. We highlight the main datasets utilized in the image based Covid analysis. We also provide a detailed discussion on the use cases how AI can be used in different applications for Covid-19 analysis.



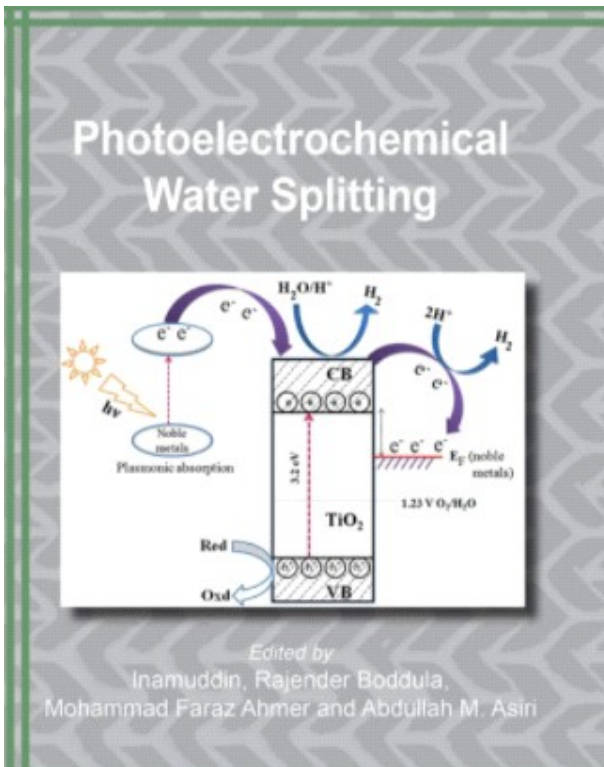
Carbon Based Electrocatalysts 301
Sonal Singh, Rishabh Sharma and Manika Khanuja

Carbon Based Electrocatalysts



Sonal Singh, Rishabh Sharma and Manika Khanuja

Abstract Electrochemical energy conversion technologies, such as polymer electrolyte fuel cells, Direct Methanol fuel cells and metal-air batteries are of supreme significance to attain sustainable energy for future use. Nanocomposite materials have fast emerged as promising candidates as a replacement to commercial and state-of-the-art electrocatalysts. They show remarkably increasing progress in electrocatalysis including oxygen evolution, oxygen reduction, CO₂ reduction, hydrogen evolution etc. Carbon support with high surface area provides better utilization of



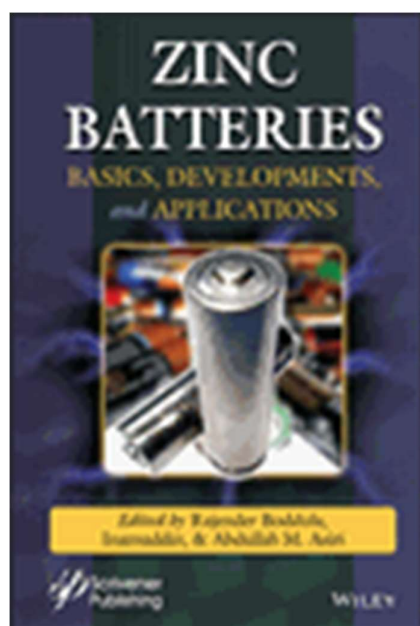
Narrow Bandgap Semiconductors for Photoelectrochemical Water Splitting

Sonal Singh, Rishabh Sharma and Manika Khanuja 91

Narrow Bandgap Semiconductors for Photoelectrochemical Water Splitting

Sonal Singh, Rishabh Sharma and Manika Khanuja

With the aim of directing research towards the area of water splitting using photoelectrochemical (PEC) cell, it is necessary to optimize the semiconductor materials used as photoelectrodes in PEC system. Narrow band gap materials prove to ace the race due to their several favorable properties towards solar absorption and water splitting. Also, their energy and potential dynamics seem suitable for this particular application. Although, many narrow band gap materials are available to cause complete splitting of water, certain shortcomings limit their



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Summary

Rechargeable zinc air batteries are tremendously leading the road of improvements in order to become one of the potential alternatives to other household and widely used commercial batteries such as Li-ion batteries. Since many years, they have been in the race to emerge as a major breakthrough but are yet not ready for the prime time before they overcome certain shortcomings of the zinc batteries. Some stringent essential requirements of the battery include long service life, high energy storage capability,



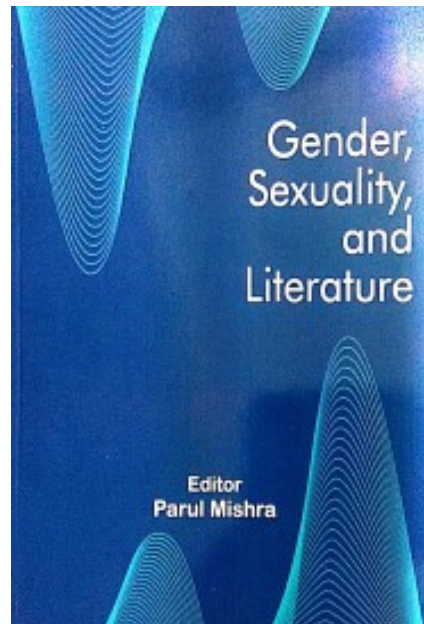
2020 International Conference on Advances in Computing, Communication and Materials (ICACCM)

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Abstract:

- Spintronics is an encouraging innovation, which expects to take care of the serious issues existing in the present traditional electronic devices. Practically, this technology can consolidate the primary elements of the magnetic storage devices and state-of-the-art semiconductor microelectronics/ nanoelectronics in a single chip. The nonstop improvements in the customary electronics are fundamentally relying upon reducing component size implanted in integrated circuits. Reduced transistors release more power that is dispersed as heat. Leakage energy has become a huge part of the power dissemination and has forced a severe thermal limitation on the device configuration accordingly constraining further scaling of the transistors. Along these lines, there is a need to look beyond CMOS (complementary metal-oxide-



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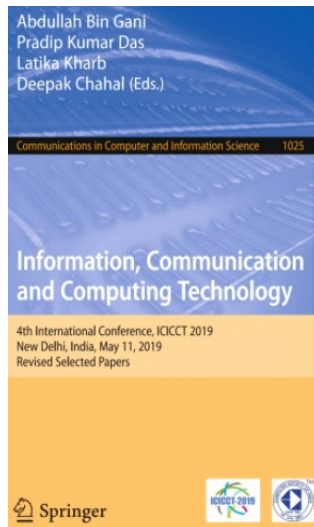
STEREOTYPES BASED ON GENDER: A PSYCHO-SOCIAL INQUIRY

Dr. Komal Chandiramani and Dr. Monika Khemani

Interest in socio-psychological processes relating to gender has been mentioned in the previous review of literature for around the past 20 years (Deaux 108; Wagner). Gender relates to masculine and feminine roles in a community. It simply refers to how individuals relate to these roles and identify themselves with certain attributes. Gender has triggered a list of expectations. The concept of stereotypes relates generalizations about individuals based on group membership. Stereotypical reflections emphasize the essential

III SOCIO-PSYCHOLOGICAL PERSPECTIVES

18. Stereotypes Based on Gender:
A Psycho-Social Inquiry 162
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Chapter PDF Available

Partial Migration for Re-architecting a Cloud Native Monolithic Application into Microservices and FaaS

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Partial Migration for Re-architecting a Cloud Native Monolithic Application into Microservices and FaaS

Deepali Bajaj, Urmil Bharti, Anita Goel, S. C. Gupta

Pages 111-124

Partial Migration for Re-architecting a Cloud Native Monolithic Application into Microservices and FaaS

Deepali Bajaj¹ , Urmil Bharti¹ , Anita Goel² ,
and S. C. Gupta³ 

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Abstract. Software development paradigm is transitioning from monolithic architecture to microservices and serverless architecture. Keeping monolithic application as a single large unit of scale is a threat for its agility, testability and maintainability. Complete migration of a monolithic application to microservice or serverless architecture poses additional challenges. Design and development

Medbot: Conversational Artificial Intelligence Powered Chatbot for Delivering Tele-Health after COVID-19

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Abstract—Telemedicine can be used by medical practitioners to connect with their patients during the recent Coronavirus outbreak, whilst attempting to reduce COVID-19 transmission among patients and clinicians. Amidst the pandemic, Telemedicine has the potential to help by permitting patients to receive supportive care without having to physically visit a hospital by using a

same time are not cost-efficient and well-matched to their medical needs. To seek more efficient ways to provide timely medical care, access and quality treatment to the patient, the role of Telemedicine comes into play which connects patients with healthcare providers and healthcare information.

Hasmat Malik · Atif Iqbal ·
Puneet Joshi · Sanjay Agrawal ·
Farhad Ilahi Bakhsh *Editors*

Metaheuristic and Evolutionary Computation: Algorithms and Applications

 Springer

**Comparison of Meta-heuristic with Evolutionary and Local Search
Methods for Feature Selection** 529
Ankita Bansal and Abha Jain

Comparison of Meta-heuristic with Evolutionary and Local Search Methods for Feature Selection



Ankita Bansal and Abha Jain

Abstract Feature selection is one of the most significant steps of pre-processing which deals with extracting the pertinent subset of features from the available feature set. This reduces the dimensionality of the dataset which is a key challenge in the field of data mining. In this chapter, three types of search methods are used for feature selection, viz. local search, evolutionary search and metaheuristic search. The goal of this chapter is to evaluate the search ability of metaheuristic methods as they

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NLP based Machine Learning Approaches for Text Summarization

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Abstract— Due to the plethora of data available today, text summarization has become very essential to gain just the right amount of information from huge texts. We see long articles in news websites, blogs, customers' review websites, and so on. This review paper presents various approaches to generate summary of huge texts. Various papers have been studied for different methods that have been used so far for text summarization. Mostly, the methods described in this paper produce Abstractive (ABS) or Extractive (EXT) summaries of text documents. Query-based summarization techniques are also discussed. The paper mostly discusses about the structured based and semantic based

summarization can be EXT or ABS, single document or multi-document, and query-based or generic.

EXT text summarization is a way of generating summaries by using the same sentences as in the document. ABS is more general and focuses on key concepts of the document. Similarly, single document summarization techniques give summaries of the text of a single document, and multi-document generates summaries of multiple documents. Moreover, these days, there's a need for summarizing text based on queries. Query-based summarization models give

Lecture Notes in Networks and Systems 145

G. Ranganathan
Joy Chen
Alvaro Rocha *Editors*

Inventive Communication and Computational Technologies

Proceedings of ICICCT 2020

Cardiovascular Disease Classification Using Different Algorithms 189

Rahul, Monika, Pranav Ray, Roshan Bapurao Kharke,
and Saurav Singh Chauhan

Cardiovascular Disease Classification Using Different Algorithms



**Rahul, Monika, Pranav Ray, Roshan Bapurao Kharke,
and Saurav Singh Chauhan**

Abstract The coronary heart stroke rates are increasing rapidly in people of all ages and gender. Cardiovascular diseases are posing a crucial and critical challenge and also the inaccurate prediction may lead to fatality. Contemporary prediction techniques like machine learning have been a useful approach in predicting these attacks with the help of the healthcare industry. In this paper, different methods are suggested to find a good-sized feature set by applying various prediction techniques which leads to enhancement of accuracy. The predictive model is delivered with various machine learning strategies.

A Review on Various Techniques of Automatic Text Summarization

Publisher: IEEE

Cite This

PDF

Aaryan Gupta ; Rahul ; Inder Khatri ; Monika [All Authors](#)

21
Full
Text Views



Abstract

Document Sections

- I Introduction
- II Related Work

Abstract:

Due to digitalization and increasing dependency on the computers, an enormous amount of data is being produced every day. This data contains very useful information, which would get wasted if not managed properly. Hence, the topic of automatic text summarization has become very essential to extract useful information without wasting the important resources. Various papers based on different techniques of text Sumz have been surveyed and mentioned in this paper. On the basis of input, these techniques are

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Proceedings of the Fifth International Conference on Inventive Computation Technologies (ICICT-2020)
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A Survey on Deep Learning based Various Methods Analysis of Text Summarization

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Abstract— Due to the extremely huge amount of text available on the internet today, there is a need for a method that helps us gather concise and quality information according to our query. People expressing their views on social media, product reviews by customers, news articles, blogs, etc. are some sources from where text arises. There are two ways of summarization (SUMZ): abstractive (ABSR) and extractive (EXTR). It can be achieved using various methods like deep learning; Neural Networks (NN), fuzzy C-means clustering etc. and these methods can be either supervised or unsupervised. Moreover, SUMZ can be achieved keeping in mind the user's emotions and views. Researchers are performing experiments on various datasets like views from social media, product reviews, news articles, or any other source

information. There are two methods of generating summ : ABSR, where we read the given text and write down a summary with words and views of our own and EXTR, where we make the summary by using the texts from the input sample of text and compile it.

Many researchers have attempted at summarizing texts using various methods. Zhang Pei-ying has used a sentence clustering solution wherein features of a sentence like a word from the feature, word order feature and word semantic feature are taken into account [1]. Emre DOĞAN uses emotion analysis and word embedding to analyze the user's emotions portrayed in the given sample of text and generate summary



22 Optimization of Process Parameters for Osmotic Dehydration of Apple Slices 247
Ayushi, Nidhi, Prachi Agarwal, Priya, and Saumya Chaturvedi

Check for updates

Optimization of Process Parameters for Osmotic Dehydration of Apple Slices

22

Ayushi, Nidhi, Prachi Agarwal, Priya, and Saumya Chaturvedi

Abstract

Osmotic dehydration of apple slices by using dry sugar method was done along with the use of various additives for enhancing the flavor. The degree Brix was checked and maintained for 3 consecutive days. After 3 days, the osmotically pre-treated apple slices were further dehydrated in a cabinet dryer at 60 °C and were analyzed with sensory score texture, flavor, color, and overall acceptability.



- 23 Exploitation of Unmarketable Potatoes for the Preparation of Instant Custard Powder with Different Flavours and Their Sensory Evaluation** 257
Aditi Sharma, Ankita Singh, Rakshindha, Archana,
and Saumya Chaturvedi

updates

Exploitation of Unmarketable Potatoes for the Preparation of Instant Custard Powder with Different Flavours and Their Sensory Evaluation

23

Aditi Sharma, Ankita Singh, Rakshindha, Archana,
and Saumya Chaturvedi

Abstract

Ready to use instant custard powder (ICP) was prepared by mixing potato starch and flour with powdered milk, sugar and dry fruits (cashews, almonds and resins). A total of four flavours, viz. butterscotch, cardamom, vanilla and orange, were tried, out of which orange was inferred to be the best. Grade D potatoes were procured from the market. The potato starch was prepared by crushing the potato slices in excess of water to make slurry which was sieved so that the settled starch can be obtained which was washed and dried in oven at 45° centigrade

Monika Thakur
V. K. Modi *Editors*

Emerging Technologies in Food Science

Focus on the Developing World

- 7 **Street Foods: Safety and Potential** 79
Prabhjot Kaur Sabharwal, Vandana Arya, and Chaynika Verma



Street Foods: Safety and Potential

7

Prabhjot Kaur Sabharwal, Vandana Arya,
and Chaynika Verma

Abstract

Street food industry plays a vital role especially in developing countries by feeding millions of people. Street foods provide substantial amount of nutrients at relatively cheap prices. Street foods include ready-to-eat food and beverages, which are easily accessible and available at great convenience, giving them huge market potential. In recent years, the informal sector of street food vending has grown in competition with the formal sector. The safety and hygiene of street foods has become a global concern. Various instances of pathogenic contamination and food borne epidemics have been reported. The use of additives in excess

Monika Thakur
V. K. Modi *Editors*

Emerging Technologies in Food Science

Focus on the Developing World

- 11 Traditional Foods: The Inheritance for Good Health** 135
Vandana, Chaynika Verma, and Prabhjot Kaur Sabharwal

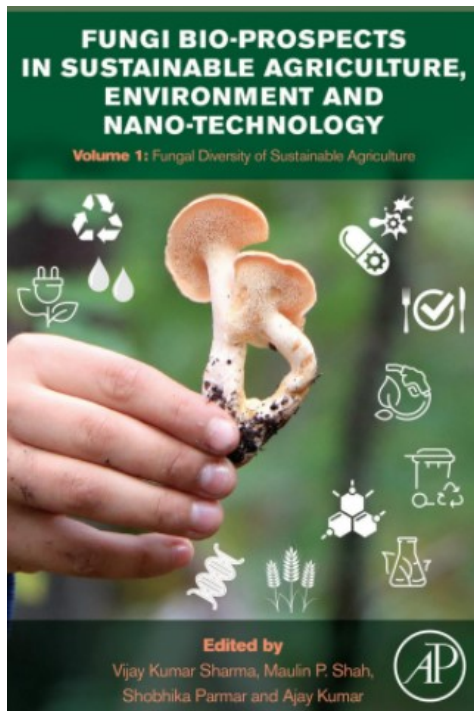
Traditional Foods: The Inheritance for Good Health

11

Vandana, Chaynika Verma, and Prabhjot Kaur Sabharwal

Abstract

The term “traditional food” refers to the foods which have been eaten for centuries and have been passed through many generations. Such foods are believed to be in their original form without any interference of modern technology, processing, or packaging. They are whole, nutrient dense, simple, basic, and thoughtfully prepared. They are an expression of culture, history, and lifestyle. Moreover, they have a long background of supporting good health. In the present scenario, changing food patterns and lifestyle has led to a prominent drift toward processed food and junk food due to the convenience and preference, but it has deleterious effect on health due to its consumption for a prolonged period. This



11. Prospect of biofuel production by fungus

Arpitha Ramachandraiah, Juhi Kaushik, Lavanya Gowda, Premchand Subhash Chigadannavar, Ramya Krishnappa, Sandeep Venkatesh, Sheersha Sivadas, Sneha Judith, Unni Maya Ramesh, Zeba Quadri, Priyadarshini Dey, Mahendra Chinthala, Deepak Gola, Nitin Chauhan and Randhir Kumar Bharti



Fungi Bio-Prospect in Sustainable Agriculture,
Environment and Nano-Technology

Volume 1: Fungal Diversity of Sustainable Agriculture

2021, Pages 285-313



Chapter 11 - Prospect of biofuel production by fungus

Arpitha Ramachandraiah^{1, a}, Juhi Kaushik^{1, a}, Lavanya Gowda^{1, a}, Premchand Subhash Chigadannavar^{1, a}, Ramya Krishnappa^{1, a}, Sandeep Venkatesh^{1, a}, Sheersha Sivadas^{1, a}, Sneha Judith^{1, a}, Unni Maya Ramesh^{1, a}, Zeba Quadri^{1, a}, Priyadarshini Dey^{1, a, b}, Mahendra Chinthala^{2, a}, Deepak Gola^{3, a}, Nitin Chauhan^{4, a}, Randhir Kumar Bharti^{5, a}

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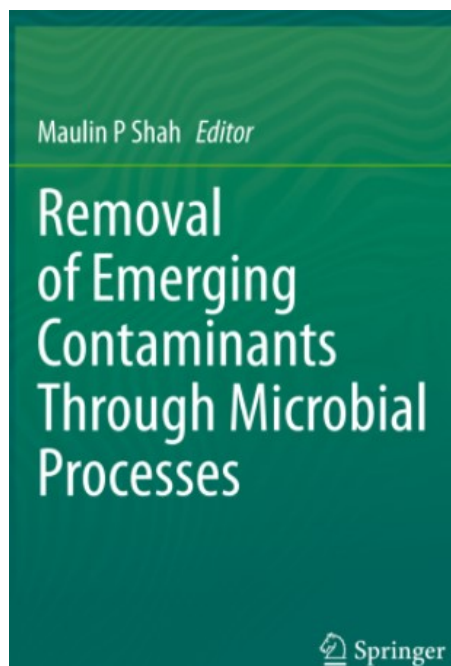
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Abstract

Fungus is a lucrative option and has received much attention in biofuel production of bioethanol, biodiesel and biogas. Bioethanol is obtained when lignocellulosic biomass (agriculture waste) is saccharified into a mixture of sugars by fungal assisted enzymatic pretreatment. Further, several oleaginous fungi such as Zygomycetes species are valuable feedstock for biodiesel production, as they are rich in oleic and palmitic acid. Apart from this, anaerobic fungus possesses an arsenal of extracellular multienzyme complexes that improve the digestion of various biomass



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Priyadarshini Dey, Deepak Gola, Nitin Chauhan, Randhir Kumar Bharti, and Anushree Malik

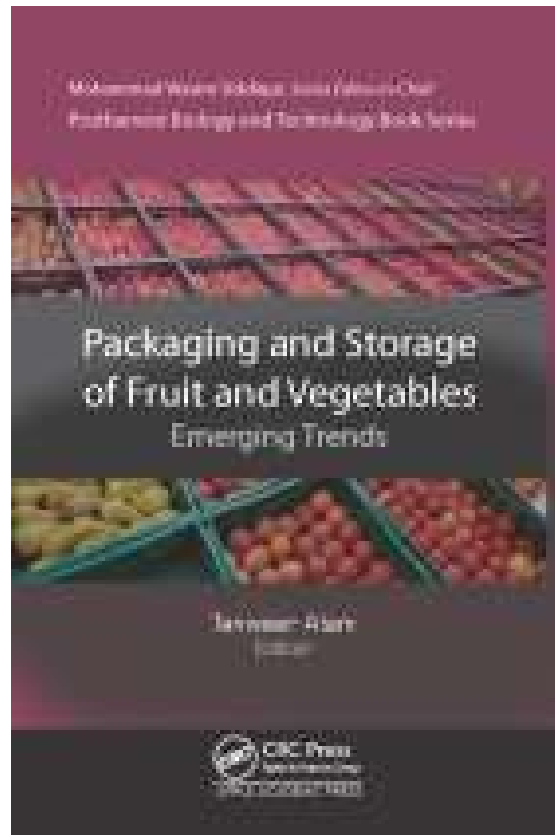


Mechanistic Insight to Bioremediation of Hazardous Metals and Pesticides from Water Bodies by Microbes

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Abstract

In the last few decades, there has been a surge in the hazardous chemicals contamination in the water bodies in various parts of India. Consequently, bioremediation of these hazardous chemicals by microorganisms has emerged as a lucrative option. Furthermore, advancement in the various physicochemical and robust molecular techniques such as ID-SDS-PAGE followed by LC-MS/MS analysis as well as metabolite identification by ¹H-NMR has shed light on the various cellular strategies adopted by a microorganism for remediation of a cocktail of metals and pesticide that were either poorly highlighted or



Chapter 12

10. Sanitation and Hygiene Process in Storage

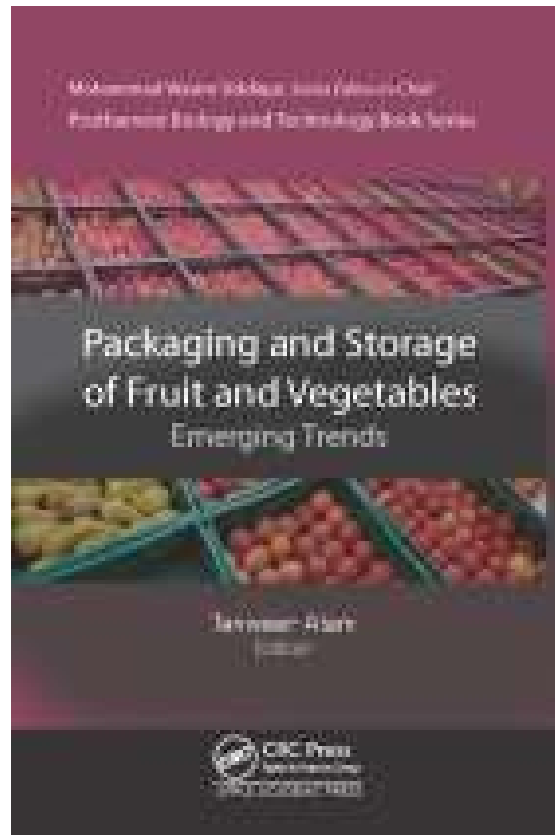
Meenakshi Garg, Sadhana Sharma, Rajni Chopra, and Susmita Dey Sadhu

11. Insect Pest Infestation During Storage of Fruits and Vegetables

Mifftha Yaseen, Basharat Ahmad Bhat, Jinku Bora, Yasmeena Jan, Muneeb Malik, and Z. R. A. A. Azad

12. Postharvest Diseases in Fruits and Vegetables During Storage

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Chapter 5

5. Edible Coating for Improvement of Horticulture Crops
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