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Abstract



7th International Conference on Communication, Computing and Virtualization 2016

Performing Customer Behavior Analysis using Big Data Analytics

Anindita A Khade

Assistant Professor, SIESGST NERUL, India

Abstract

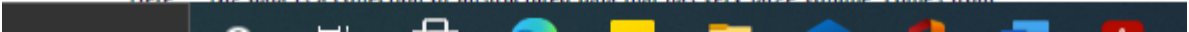
Although there are many systems that have implemented customer behavior analytics, it's still an upcoming and unexplored market that has greater potential for better advancements. Big data is one of the most rising technology trends that have the capability for significantly changing the way business organizations use customer behavior to analyze and transform it into valuable insights. Even decision trees can be used efficiently for analyzing data. At the end of this paper, a proposed Map Reduce implementation of well-known statistical classifier, C4.5 decision tree algorithm has been proposed. Apart from this, the system aims to implement Customer data visualization using Data Driven Documents (d3.js) which allows us to build well customized graphics.

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Peer-review under responsibility of the Organizing Committee of ICCCV 2016.

Keywords: Big Data analyti; C4.5 algorithm; D3.js; Data visualization; Hadoop; MapReduce

1. Main text


Here Big data is a collection of unstructured data that has very large volume, comes from



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Real Time Monitoring of CO2 Emissions in Vehicles Using Cognitive IOT

Prachi Shahane, Preeti Godabole

With rise in the amount of heat trapping gases the earth is getting warmer day by day, leading to global warming. CO2 is the major contributor of the greenhouse gases. The main aim of this research is to reduce the green house effect by real time monitoring and controlling of CO2 emission caused due to vehicles and industries using cognitive IOT [2]. The Internet of Things (IOT) extends internet connectivity to a diverse range of devices and everyday things that utilize embedded technology to communicate and interact with the external environment, all via the Internet. In this proposal we have tried to make the CO2 detector intelligent by saving the CO2 levels in different regions. This model adheres to cognitive IOT and provides information for utilization of vehicular features based on the CO2 levels. The model is cost effective and also can be easily produced and integrated with vehicles and also in industries.

Keywords: With rise in the amount of heat trapping gases the earth is getting warmer day by day, leading to global warming CO2 is the major contributor of the greenhouse gases The main aim of this research is to reduce the green house effect by real time monitoring and controlling of CO2 emission caused due to vehicles and industries using cognitive IOT2 The Internet of Things IOT extends internet connectivity to a diverse range of devices and everyday things that utilize embedded technology to communicate and interact with the external environment, all via the Internet In this proposal we have tried to make the CO2

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Issue

VIDEO SUMMARIZATION: CORRELATION FOR SUMMARIZATION AND SUBTRACTION FOR RARE EVENT

Author(s):

Lijitha Govindankutty , SIES Graduate School of Technology, Navi Mumbai; Namrata Patel, SIES Graduate School of Technology, Navi Mumbai; Aashika Balakrishnan, SIES Graduate School of Technology, Navi Mumbai

Keywords:

video summaries, video processing, video skimming, image processing

Abstract:

The ever increasing number of surveillance camera networks being deployed all over the world has not only resulted in a high interest in the development of algorithms to automatically analyze the video footage, but has also opened new questions as how to efficiently manage the vast amount of information generated. The user may not have sufficient time to watch the entire video or the whole of video content may not be of interest to the user. In such cases, the user may just want to view the summary of the video instead of watching the whole video. In this paper, we present a video summarization technique developed in order to efficiently access the points of interest in the video footage. The technique aims to eliminate the sequences which contain no activity of significance. The system being developed actually captures each frame from the video, then it processes the frame; if the frame is of its interest, it retains the frames otherwise it discards the frame; hence the resultant video is very short. The proposed method is extended to obtain rare event detection for security systems. These rare event detections refer to suspicious scenarios. The system will consider a particular frame of interest from a video footage taken at given time and search for actions from video footages across the particular area of interest specified by the user. The user is then notified about the objects and actions occurred in the area of interest. This helps in detecting suspicious behavior that would have otherwise been deemed unsuspecting and gone unnoticed in the context of a narrow timeframe.

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An Application of Six Sigma to Reduce Supplier Quality Cost

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Gaikwad, Lokpriya Mohanrao ; Teli, Shivagond Nagappa ; Majali, Vijay Shashikant ; Bhushi, Umesh Mahadevappa

This article presents an application of Six Sigma to reduce supplier quality cost in manufacturing industry. Although there is a wider acceptance of Six Sigma in many organizations today, there is still a lack of in-depth case study of Six Sigma. For the present research the case study methodology was used. The company decided to reduce quality cost and improve selected processes using Six Sigma methodologies. Regarding the fact that there is a lack of case studies dealing with Six Sigma especially in individual manufacturing organization this article could be of great importance also for the practitioners. This paper discusses the quality and productivity improvement in a supplier enterprise through a case study. The paper deals with an application of Six Sigma define-measure-analyze-improve-control methodology in an industry which provides a framework to identify, quantify and eliminate sources of variation in an operational process in question, to optimize the operation variables, improve and sustain performance viz. process yield with well-executed control plans. Six Sigma improves the process performance (process yield) of the critical operational process, leading to better utilization of resources, decreases variations and maintains consistent quality of the process output.

An Application of Six Sigma to Reduce Supplier Quality Cost

Lokpriya Mohanrao Gaikwad, Shivagond Nagappa Teli, Vijay Shashikant Majali & Umesh Mahadevappa Bhushi

Journal of The Institution of Engineers (India): Series C
Mechanical, Production, Aerospace and Marine Engineering

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Title: Pattern of manufacturing strategy implementation and implications on manufacturing levers and manufacturing outputs and business performance

Authors: Pradip P. Patil; B.E. Narkhede; Milind M. Akarte

Addresses: Production and Industrial Engineering, Veermata Jijabai Technological Institute (VJTI), Matunga, Mumbai, 400019, India * Production and Industrial Engineering, Veermata Jijabai Technological Institute (VJTI), Matunga, Mumbai, 400019, India * National Institute of Industrial Engineering (NITIE), Vihar Lake, Mumbai, 400087, India

Abstract: The strategic implementation of manufacturing improves competence of manufacturing function (Lawson, 2002) and develops capability in different areas of manufacturing system or levers or decisions such as human resource, production planning and control, organisation structure and control, process technology, sourcing and facilities. This study explores the manufacturing strategy implementation (MSI) in Indian product packaging industry (IPPMC) using three constructs namely manufacturing as competitive force, functional integration of manufacturing, strategic planning and communication. The recognition of manufacturing competency can be linked through improvement in the manufacturing output and business performance. This research proposes a

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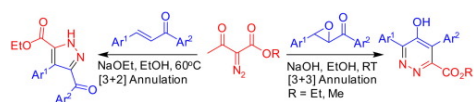
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Tetrahedron Letters

Volume 57, Issue 29, 20 July 2016, Pages 3146-3149



Regioselective synthesis of pyrazole and pyridazine esters from chalcones and α -diazo- β -ketoesters

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**Regioselective synthesis of pyrazole and pyridazine esters from chalcones and α -diazo- β -ketoesters**

Deepa Nair, Prashant Pavashe, Savita Katiyar, Irishi N. N. Namboothiri*

Department of Chemistry, Indian Institute of Technology Bombay, Mumbai 40075, India

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 α -Diazo- β -ketoester

Pyrazole ketoesters

[3+2] annulation

Pyridazine ester

ABSTRACT

Base mediated deacylation of α -diazo- β -ketoester generates diazoester anion, a reactive 1,3-dipole, which undergoes [3+2] annulation with chalcones to afford pyrazole ketoesters. Under similar conditions, the 1,3-dipole takes part in a [3+3] annulation with chalcone epoxides to provide pyridazine esters. Despite moderate yields, high regioselectivity, mild conditions, and functional group diversity are the salient features of this novel methodology.

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Heterocycles constitute an integral part of numerous bioactive compounds including natural products.¹ N-Containing heterocycles, in particular, dominate the domain of bioactive heterocycles due to their ubiquity and the co-ordinating ability of nitrogen.² Pyrazoles and pyridazines are, respectively, five- and six-membered dinitrogen heterocycles containing a key diazo group. Pyrazoles exhibit a variety of biological properties, especially in the pharmaceutical and agrochemical sector,³ and also function as ligands in synthesis⁴ as well as precursors to N-heterocyclic carbenes.⁵ Pyridazines are also regarded as privileged structures in medicinal chemistry and agrochemistry as they are bioisosteric with benzene possessing additional possibility of interaction (Fig. 1).^{6,7} Applications of pyridazine in pharmacy, agriculture, and materials chemistry are well-documented in the literature.^{1,8}

While pyrazoles are synthesized via 1,3-dipolar cycloaddition of diazoalkanes with alkenes or alkynes⁹ or condensation of 1,3-difunctional compounds with hydrazines,¹⁰ such general methods are not available for the synthesis of pyridazines.^{9,11} Reaction of maleic anhydride with hydrazine,¹² tetrazines with alkenes or alkynes,¹³ 1,2-azadienes with alkenes,¹⁴ or active methylene compounds¹⁵ are the commonly employed methods for the synthesis of pyridazines.

As part of our studies on the synthesis of functionalized pyrazoles, we reported the regioselective synthesis of phosphoryl pyrazoles for the first time, in 2007, by employing Bestmann–Ohira reagent (BOR, α -diazo- β -ketophosphonate)¹⁶ as a 1,3-dipolar

cycloaddition partner with nitroalkenes.¹⁷ Later on, this strategy was studied in depth by us which unveiled the scope and tautomeric equilibrium in phosphorylpyrazoles.¹⁸ The utility of BOR as a diazoalkane equivalent in a one-pot multi-component reaction involving a domino Knoevenagel condensation/1,3-dipolar cyclization strategy for the synthesis of phosphorylpyrazoles was reported by Smietana et al.¹⁹ We and Smietana et al. also employed enones and Bastogi et al. employed ynones as dipolarophiles which led to the synthesis of carbonylated phosphorylpyrazoles.²⁰ More recently, Mubanan et al. developed a domino reaction for the synthesis of phosphorylpyrazoles in which BOR reacted as a cycloaddition partner as well as a homologation agent.²¹

In continuation of the above efforts, silylonylpyrazoles have been synthesized by us through a regioselective one-pot, base mediated reaction of α -diazo- β -ketosulfone²² with nitroalkenes.²³ This methodology was successfully employed in the total synthesis of bioactive pyrazole alkaloid withasemmine.^{23,24} However, to our knowledge, α -diazo- β -ketoesters **2** have not been employed in such capacity as cycloaddition partners with enones **1** for the synthesis of various heterocycles, especially pyrazoles, e.g. **3**.²⁵ More importantly, synthesis of pyridazines, e.g. **5**, via reaction of α -diazo- β -ketoesters **2** with epoxides of enones **4** remains unreported hitherto.

In the above scenario, we report for the first time, the application of α -diazo- β -ketoester **2** as a potent 1,3-dipole with chalcones **1** for the synthesis of highly substituted pyrazole ketoesters **3** and with chalcone epoxides **4** for the synthesis of novel pyridazine esters **5** (Scheme 1).

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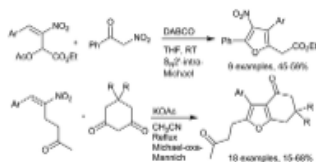
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Vajinath Mane, Tarun Kumar, Sourav Pradhan, Savita Katiyar and Irishi N. N. Nambuthiri

Functionalized and fused furans were synthesized by a one-pot regioselective cascade reaction from Morita-Baylis-Hillman acetates and Rauhut-Currier adducts of nitroalkenes.



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One-pot regioselective synthesis of functionalized and fused furans from Morita–Baylis–Hillman and Rauhut–Currier adducts of nitroalkenes†

Vajinath Mane, Tarun Kumar, Sourav Pradhan, Savita Kalyar and Irishi N. N. Namboothiri*

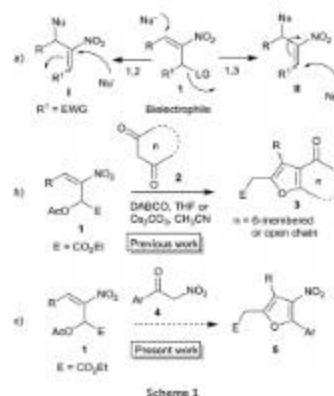
Highly functionalized and fused furans have been synthesized via cascade reactions of Morita–Baylis–Hillman and Rauhut–Currier adducts of nitroalkenes with active methylene compounds. The reactions involving $S_{\text{N}}2'$ intramolecular Michael addition or Michael addition–intramolecular nucleophilic substitution take place in a regioselective manner to afford synthetically and biologically useful furans in moderate to good yields.

Introduction

Furans belong to a unique class of five membered aromatic oxygen heterocycles which constitute the core structure of numerous natural products, drugs and other bioactive molecules.¹ The diverse biological properties exhibited by furan containing compounds are well-documented in the literature.² The wide applicability of furans as valuable synthons in multi-step reactions, including total synthesis, is well-recognized.³ Among the several methods reported for the synthesis of furans,⁴ Paal–Knorr synthesis (from 1,4-dicarbonyl compounds)⁵ and Feist–Benary synthesis (typically from α -halo-ketones and β -dicarbonyl compounds)⁶ are the prominent ones. Many highly efficient transition metal catalyzed cyclization strategies have emerged in recent years.⁷

Despite the availability of numerous methods, development of novel and efficient diversity oriented approaches for the synthesis of functionalized and fused furans would be very valuable both from synthetic and biological perspectives. As part of the studies on the Morita–Baylis–Hillman (MBH)⁸ and Rauhut–Currier (RC)⁹ reactions of nitroalkenes and the applications of the products,^{10–12} we and others have utilized the MBH acetates¹³ and heterocycles.^{14,15} The methodology involves a cascade $S_{\text{N}}2'$ reaction of a binucleophile with MBH acetate **1** followed by an intramolecular Michael addition taking advantage of the 1,2 or 1,3-bi-electrophilic character of **1** as outlined in Scheme 1a. We and Chen *et al.* have reported the synthesis of furans *via* base mediated addition of 1,3-dicarbonyl compounds and arenoles to the 1,2-bi-electrophilic MBH acetates

1 (Scheme 1b).¹⁴ Herein we report the role of α -nitroacetophenone **4** as the bi-nucleophile towards the MBH acetates **1** resulting in synthetically and biologically useful highly substituted nitrofurans **5** as single regioisomers (Scheme 1c). The vinylogous MBH (Rauhut–Currier, RC) reaction of nitroalkenes¹⁶ and its applications for the synthesis of novel carbocyclic and heterocyclic scaffolds have also been of interest to us. We and others have employed RC adducts of nitroalkenes for the synthesis of functionalized pyrazoles,¹⁷ decalins,¹⁸ cycloalkanones,¹⁹ spirocycles²⁰ and bridged heterobicycles such as epibatidine.²¹ The reactivity profile of a representative RC



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† Electronic supplementary information (ESI) available: Copies NMR spectra. See DOI: 10.1039/C5RA12472C

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International Journal of Scientific & Engineering Research, Volume 6, Issue 12, December-2015
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The Direct transition and not Indirect transition, is more favourable for Band Gap calculation of Anatase TiO2 nanoparticles

Manasi Manoj Karkare
 Department of Humanities and Applied Sciences
 S.I.E.S Graduate School of Technology
 Nerul, Navi-Mumbai, India

Abstract— In this study, anatase titanium dioxide nanoparticles were successfully prepared by a sol-gel method using Titanium Butoxide precursor. Hydrochloric acid was added to adjust the pH of the solution. The sols obtained were dried at 80°C and calcined at 400°C for 3hrs. The nanostructures were characterised by a Scanning Electron Microscope, FTIR, Ultraviolet Visible Spectroscopy. Highly crystalline anatase titania nanoparticles could be obtained through the controlled hydrolysis reaction rate. The sizes of synthesized particles were in the range 5 nm to 15 nm i.e. 10nm on an average and with a regular shape. The band gap is calculated for direct transition and indirect transition. Direct solar radiation reaching the Earth is comprised of wavelengths with energies greater than the band gap of silicon. These higher energies will be absorbed by the solar cell, but the difference in energy is converted into heat rather than into usable electrical energy. Consequently, unless the band gap is controlled, the efficiency of the solar cell will be poor. Using layers of different materials with different band gap properties is a proven way to maximize the efficiency of solar cells. In the semiconductor and nanomaterial industries, titanium dioxide (TiO₂, commonly known as titania) is added as an ingredient to coatings. The band gap of the semiconductors had been found to

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1. Authors Name : Kalyani Pampattiwar

Title : Home automation using raspberry pi controlled via an android application

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Home Automation using Raspberry Pi controlled via an Android Application

Author : Kalyani Pampatlawat, Mit Lakshani, Rishu Marar and Rhea Menon

Pages : 962-967

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Abstract

The overall design of Home Automation System (HAS) implements low cost wireless communication between a Raspberry Pi module and an android based application to the IP appliances present at home. This paper provides a combination of these two components—security and ease of lifestyle for people. This paper is designed to assist and provide support for all demographic. It introduces a smart home concept that improves the standard of living at home. The paper is intended to control electrical appliances in a home or office using an android application. The main control system implements wireless technology to provide remote access from raspberry pi. The paper mainly focuses on the monitoring and control of smart home remotely and providing security, when the user is away from home. The paper is intended to control electrical appliances and devices in the house with relatively low cost design, user-friendly interface and ease of installation. This paper differentiates itself from others as it has its own software level application to control the home appliances. In this paper android phone is used to control the various parameters. Android phone proves to be the main advantage compared to personal computer, as it is portable.

Keywords: Home Automation System, Raspberry Pi, Android Application, Smart Security Door Bell

Article published in International Journal of Current Engineering and Technology, Vol.7, No.3 (June-2017)

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Research Article

Home Automation using Raspberry Pi controlled via an Android Application

Kalyani Pampattiwar*, Mit Lakhani*, Rinisha Marar* and Rhea Menon*

*Department of Computer Engineering, SIES Graduate School of Technology, Nerul, Navi Mumbai, India

Accepted 06 May 2017, Available online 11 May 2017, Vol.7, No.3 (June 2017)

Abstract

The overall design of Home Automation System (HAS) implements low cost wireless communication between a Raspberry Pi module and an android based application to the IP appliances present at home. This paper provides a combination of these two components—security and ease of lifestyle for people. This paper is designed to assist and provide support for all demographic. It introduces a smart home concept that improves the standard of living at home. The paper is intended to control electrical appliances in a home or office using an android application. The main control system implements wireless technology to provide remote access from raspberry pi. The paper mainly focuses on the monitoring and control of smart home remotely and providing security, when the user is away from home. The paper is intended to control electrical appliances and devices in the house with relatively low cost design, user-friendly interface and ease of installation. This paper differentiates itself from others as it has its own software level application to control the home appliances. In this paper android phone is used to control the various parameters. Android phone proves to be the main advantage compared to personal computer, as it is portable.

Keywords: Home Automation System, Raspberry Pi, Android Application, Smart Security Door Bell

1. Introduction

Home automation is the use of one or more computers to control basic home functions and features

For the security aspect of the home automation system, we have implemented a smart doorbell. Entertainment system includes speakers connected to the Raspberry Pi via bluetooth. The lighting functionality, alarms,

2.Authors Name : Kalyani Pampattiwar

Title : Interior Design using Augmented Reality Environment

Name of Journal: International Journal of Innovative Research in Science ,Engineering and Technology



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**International Journal of Innovative Research in Science,
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Vol. 5, Issue 4, April 2016

Interior Design using Augmented Reality Environment

Akshay Adiyodi¹, Manasvini Agrahara¹, Pankaj Gannani¹, Kalyani Pampattiwar²

B. E Student, Department of Computer Engineering, SIES Graduate School of Technology, Nerul,
Navi Mumbai, India¹

Assistant Professor, Department of Computer Engineering, SIES Graduate School of Technology, Nerul,
Navi Mumbai, India²

ABSTRACT: This paper presents an interior design application using Augmented Reality technology. Along with the growth of digital technology, virtual information techniques are required in architectural field. Nowadays, people are busy with their work thus limiting their time to go to various stores to buy furniture for their everyday use. There is difficulty to fulfill the customers contentment of decorate their room without imaginary view of how the place would actually appear. A printed furniture catalogue is paper based containing textual information and images which does not provide any interaction for the user. We intend to use marker based AR for implementing a new design approach for interior design. This AR environment will allow the user to select from a range of furniture and then display the virtual furniture selected on the real environment. The user can also modify the virtual furniture in real-time on the screen allowing the user to have an interactive experience with the furniture in a real-world environment. This will provide a better view of the furniture placement and simplify the process of interior designing for users to save their time and effort.

I. INTRODUCTION

It is a difficult challenge to visualize how any piece of furniture will look in a room with lot of factors left to human

3.Authors Name : Dr. Rizwana S

Title : Securing E-healthcare records on Cloud Using Relevant data classification and Encryption

Name of Journal: International Journal Of Engineering And Computer Science

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Article Section

Abstract

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Securing E-healthcare records on Cloud Using Relevant data classification and Encryption

Rizwana Shaikh Jagrutee Banda Pragna Bandi

Google Scholar

Published: 2017-02-02

Abstract

Information security is always the area of concern for cloud users. The confidentiality of the Electronic Health Records (EHRs) is major issue when commercial cloud servers are used by hospital staff to store the patients' medical records because it can be viewed by everyone. There are various issues and challenges toward achieving detailed data access control based on cryptography. To achieve fine grained and scalable data access control for medical records stored in cloud servers, we propose Attribute Based Encryption (ABE) techniques such as key policy attribute based encryption, role based encryption, etc. to encrypt each patient's medical record file. For this we describe an approach which enables storage which is secure and patient's health data with controlled sharing. We explore key-policy attribute based encryption to gain patient access control policy such that everyone can download the data, but only

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4. Author's Name : Preeti Hemnani

Title : ¹⁴N NQR spectrometer for explosive detection: A Review

Name of Journal: ICACDOT, Published in IEEE xplore

The screenshot shows the IEEE Xplore website interface. At the top, there are navigation links for IEEE.org, IEEE Xplore, IEEE-SA, and IEEE Spectrum. A search bar is visible with the word 'All' and a search icon. Below the search bar, the search results for '14N NQR spectrometer for explosive detection: A review' are displayed. The publisher is listed as IEEE, and there are buttons for 'Cite This' and 'PDF'. The authors listed are Preeti Hemnani, Gopal Joshi, A.K. Rajarajan, and S.V.G. Ravindranath. A badge indicates '167 Full Text Views'. There are social media sharing icons for Facebook, Twitter, LinkedIn, and Email. A sidebar on the right contains a 'Need Full-Text' advertisement with a 'CONTACT IEEE TO SUBSCRIBE' button. At the bottom, there is a cookie consent banner that says 'IEEE websites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our Privacy Policy.' with an 'Accept & Close' button.

^{14}N NQR spectrometer for explosive detection: A Review

Preeti Hemnani
Homi Bhabha National Institute
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Gopal Joshi
Accelerator and Control Division,
Bhabha Atomic Research Centre, India

A.K.Rajaraman
Solid State Physics Division,
Bhabha Atomic Research Centre, India

S.V.G Ravindranath
Atomic and Molecular Physics Division,
Bhabha Atomic Research Centre, India

Abstract— The explosive detection via NQR is based on presence of ^{14}N as all explosives usually contain nitrogen. The detected nitrogen nuclei contained in explosives and other nitrogen containing materials gives different frequencies and also different explosives have their own NQR frequencies, explosives can be detected and uniquely identified by ^{14}N NQR frequency. A Review on research and development in the field of detection of ^{14}N using NQR has been presented in this paper.

Keywords—NQR ; NMR

atomic nuclei having non-zero spin inside the compound. Due to the fact NMR needs a large magnetic field, its application in field is limited, and therefore most of NMR based explosive detection systems are developed for luggage screening. On other hand NQR does not require the presence of the magnet. NQR detection only works for the quadrupolar nuclei with spin, $I > 1/2$ i.e. the nuclei need to have quadruple moments. Most of the explosive substances are typically rich in ^{14}N nuclei with $I = 1$ and thus ^{14}N NQR is a suitable technique for explosive detection. The NOR detection starts

5. Author's Name : Preeti Hemnani

Title : FPGA based RF pulse generator for NQR/NMR spectrometer

Name of Journal: ICACC, Published in Proceedia computer Science, Elsevier

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FPGA based RF pulse generator for NQR/NMR spectrometer

Preeti Hemnani^{a,e,*}, A.K. Rajarajan^b, Gopal joshi^c, S.V.G. Ravindranath^d

^aHomi Bhabha National Institute, ^bSolid state physics division, ^cAccelerator Control Division, ^dAtomic and Molecular Physics Division
Bhabha Atomic Research Centre, Mumbai, India

^eS.I.E.S Graduate School of Technology, Nerul, Navi Mumbai, India

Abstract

A FPGA based radio frequency source and pulse programmer for NQR is described. With the use of direct digital synthesis (DDS), the RF source has the ability to yield RF signal with short switching time and high resolution in frequency and phase. To facilitate the generation of RF pulses, pulse programmer implemented in FPGA, is also used as auxiliary controller of DDS. The pulse programmer controls the DDS to generate RF pulses according to predefined parameters.

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6. Author's Name : Dr.K.Lakshmisudha

Title : Review analysis of the routing protocols in wireless sensor networks for energy optimization

Name of Journal: Indian Journal of Computer Science and Engineering (IJCSE)



K.Lakshmi Sudha et al. / Indian Journal of Computer Science and Engineering (IJCSE)

REVIEW ANALYSIS OF THE ROUTING PROTOCOLS IN WIRELESS SENSOR NETWORKS FOR ENERGY OPTIMIZATION

K.LAKSHMI SUDHA

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Research Scholar, Sathyabama University.
lakshmi.sudha@siesgst.ac.in

Dr. C. Arun

Professor, Department of ECE,
R.M.K. College of Engineering and Technology, Chennai
carunece@gmail.com

Abstract: Wireless sensor network consists of number of sensors, which collects the information and send to the sink node. Sensor node has limited energy storage and cannot be replaced in certain applications. A significant work has been done on optimization of the protocols in each layer of the sensor network to optimize the energy. In this paper, we are presenting a research review on the network layer protocols for optimum routing, lifetime and energy optimization.

Keywords: Wireless sensor Network, Lifetime, Routing, Energy, Network layer.

1. Introduction

The protocol stack of the Sensor node consists of Physical Layer, Data Link Layer, Network Layer and

7.Author's Name : Dr.K.Lakshmisudha

Title : Smart Precision based Agriculture using Sensors

Name of Journal: International Journal of Research and Analytical Reviews (IJRAR)

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Smart Precision based Agriculture using Sensors

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Shruti Iyer
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ABSTRACT

Smart precision based agriculture makes use of wireless sensor networks to monitor the agricultural environment. Zigbee and raspberry pi-based agriculture monitoring system serves as a reliable and efficient method for monitoring agricultural parameters. Wireless monitoring of field not only allows user to reduce the human power, but it also allows user to see accurate changes in it. It focuses on developing devices and tools to manage, display and alert the users using the advantages of a wireless sensor network system. A smart system based on precision agriculture would pave the way to a new revolution in agriculture. The user can monitor the agriculture environment from a remote location, thus providing a greenhouse condition for the plants. India being an agro based economy; precision agriculture can bring about an improvement in the primitive methods, thus developing the country stature hugely.

General Terms

Sensor networks, smart agriculture.

Keywords

Wireless Sensor Network, Sensor node, Green House Monitoring System, Zigbee.

using zigbee [2]. The system consisted of the soil monitoring wireless sensor network and remote data center. The sensor node was developed using JN5121 module and IEEE 802.15.4/ZigBee wireless microcontroller.

- Sonali and her team published a paper on monitoring wireless sensor network using android based smart phone Application [3]. The proposed work of this project is to use the technologies of centralized computing and android programming for the development of the application.
- Prof C. H. Chavan and group presented a paper on wireless monitoring of soil moisture, temperature & humidity using zigbee in agriculture [4]. The proposed hardware of this system includes 8 bit AVR, Blue tooth module, Temperature, humidity and soil moisture sensors, LCD. The system is low cost & low power consuming so that anybody can afford it.
- Prabha and her group members published a paper on real-time atomization of agricultural environment for social modernization of Indian agricultural system using Arm 7 [5]. This system uses the integration of the both wired and wireless techniques and ARM controller to

1. INTRODUCTION

8. Author's Name : Ms. Seema Redekar

Title : A Survey on Eat-Out Recommender in Hadoop

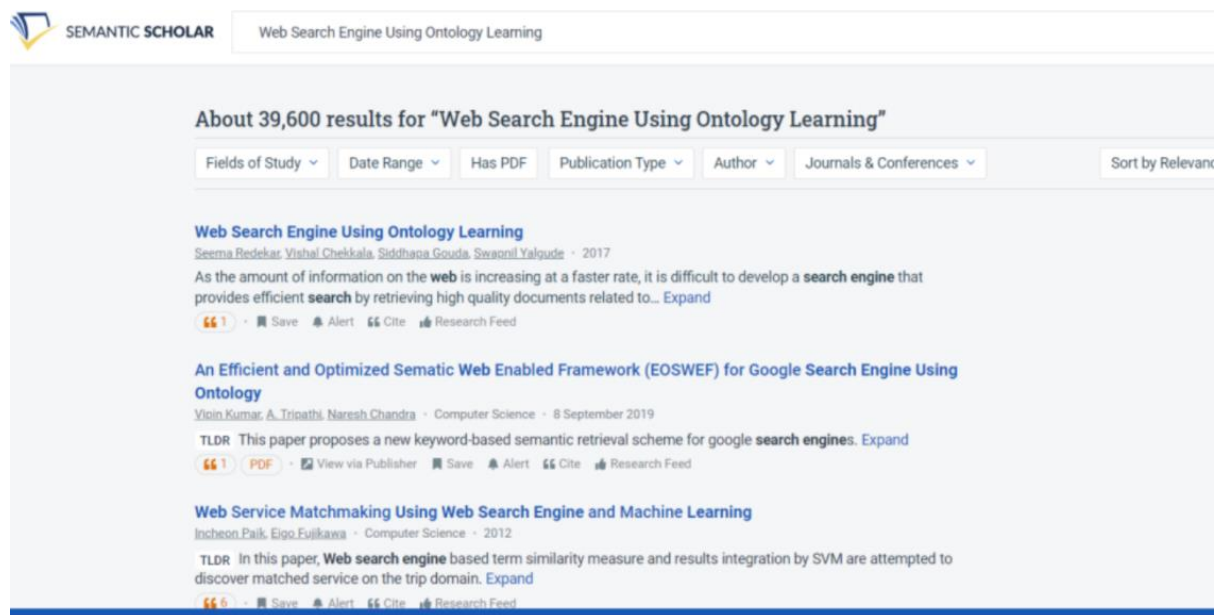
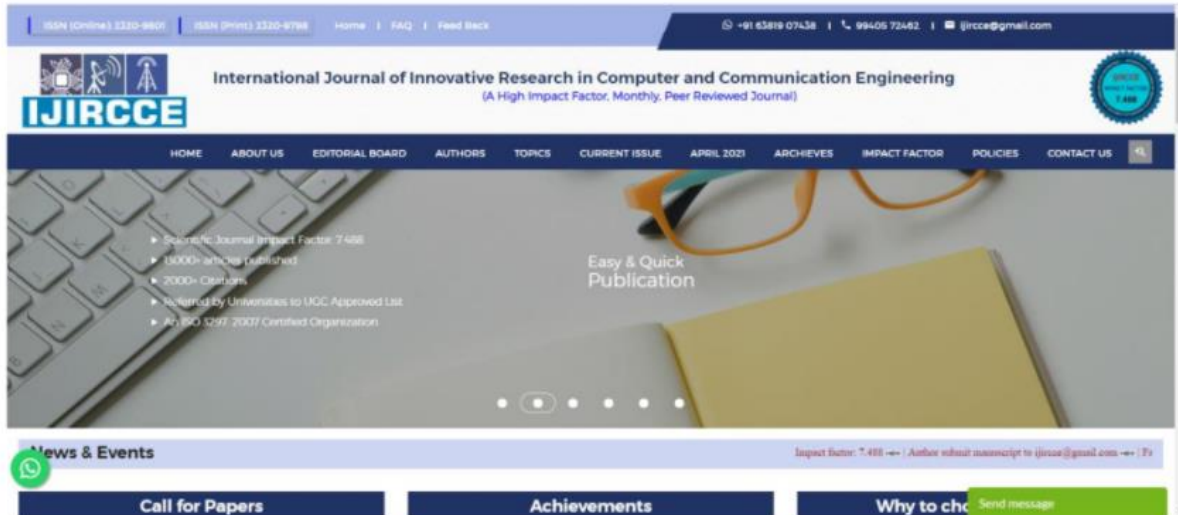
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9. Author's Name : Ms. Seema Redekar Title :

Title : Web Search Engine Using Ontology Learning

Name of Journal: International Journal of Innovative Research in Computer and Communication Engineering



10. Author's Name : Ms. Saritha L.R

Title : Behavioral Biometric Authentication Using Leap Motion Sensor

Name of Journal: International Journal of Latest Trends in Engineering and Technology



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1. Behavioral biometric authentication using leap motion sensor

Authors : Saritha L.r., Diana Thomas, Neema Mohandas, Pooja Ramnath

Pages : 643-649

DOI : <http://dx.doi.org/10.21172/1.81.084>

Keywords : authentication Leap Motion Sensor Leap password

Abstract :

In this project, we intend to provide a solution for authentication of files or applications in Laptops or PCs. The Leap Motion sensor will be used for uniquely identifying the genuine user and grant him access to the system. The different existing methods of authentication have their own pros and cons. The Leap sensor is a camera based sensor which will capture the hand geometry and gesture of the user and store it. The gesture decided by the user at first, known

11. Author's Name : Ms. Saritha L.R

Title : Energy Efficient Routing Protocols For Wireless Sensor Networks-A Review

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ENERGY EFFICIENT ROUTING PROTOCOLS FOR WIRELESS SENSOR NETWORKS-A REVIEW

Saritha L. R.¹

Abstract- Energy efficiency, storage capacity and computing power are major considerations while designing wireless sensor network. Wireless sensor networks use battery-operated computing and sensing devices. Most sensor network applications require energy autonomy for the complete lifetime of the node, which may span up to several years. There are many routing protocols like: location based, multipath, data centric, mobility based, hierarchical routing, hybrid routing etc. Clustering is used to prolong the lifetime of the wireless sensor networks. Clustering is the process where sensing area is divided in groups to balance the energy level of sensor nodes known as clusters. In this paper presents the study of different energy efficient routing protocols of wireless sensor networks and compared them on various parameters

Keywords – Wireless sensor networks (WSNs), Low-Energy Adaptive Clustering Hierarchy (LEACH), Secure Positioning for Sensor Networks (SPIN), nodes, routing protocols, Base Station (BS).

I. INTRODUCTION

In these days, wireless sensor network emerging as a promising and interesting area. Wireless Sensor Networks (WSN's) are being used in surveillance, industrial monitoring, traffic monitoring, habitat monitoring, health care monitoring, air pollution monitoring, forest fire detection, land slide detection, water quality monitoring, natural disaster prevention, industrial monitoring, cropping monitoring, machine health monitoring and crowd counting etc. which calls for monitoring before taking an appropriate action. The WSN is built from a few to several hundreds or thousands of nodes, where each node is connected to one or sometimes several sensors. Each such sensor network node has typically several parts: a radio transceiver with an internal antenna or connection to an external antenna, a microcontroller, an electronic circuit for interfacing with the sensors and an energy source, usually a battery or an embedded form of energy harvesting.

12.Author's Name : Ms. Saritha LR

Title : Broadcasting using LiFi

Name of Journal: International Journal of Scientific & Engineering Research

Broadcasting using LiFi

Akshay Pathak, Marimuthu Padayachi, Rahul Kosamkar, Saritha LR

Abstract— A person gets frustrated when he faces slow speed as many devices are connected to the same network. As the number of people accessing wireless internet in-creases, it's going to result in clogged airwaves. Li-Fi is transmission of data through illumination by taking the fiber out of fiber optics by sending data through a LED light bulb that varies in intensity faster than the human eye can follow. As Li-Fi is considered to be the optical version of Wi-Fi, some label it as fast and cheap wireless communication system. When LED is on digital 1 is transmitted and when it is off 0 is transmitted. Data can be encoded in the light by varying the flickering rate to generate strings of 1s and 0s. The output appears to be constant to the human eye as the LED intensity is modulated rapidly. This method of using rapid pulses of light to transmit information wirelessly is technically referred to as Visible Light Communication (VLC). Advancements promise a speed of 10 Gbps. Li-Fi can work even underwater. If this technology can be put into practical use, every bulb can be used some-thing like a Wi-Fi hotspot to transmit wireless data and we will proceed toward the cleaner, greener, safer and brighter future. As the growing number of device accessing wireless internet are coming into use airwaves are becoming increasingly clogged making it more and more difficult to get a reliable, high speed signal.

Index Terms— Light-Fidelity(LiFi), Light Emitting Diode(LED), Photodiode, Wireless Communication, Visible Light Communication(VLC), Optical Wireless Communication (OPT).

1 INTRODUCTION

Li-Fi is the term used to label the wireless communication system through an optical source that makes the system fast and cheap. Li-Fi is based upon Visible Light Communication technology where data transmission is made through a light

2. Project will try to include following key features:

- (a). Wireless Data Transmission and Reception.

13. Author's Name : Mrunal Khadase

Title: Enhancing Security using honeywords

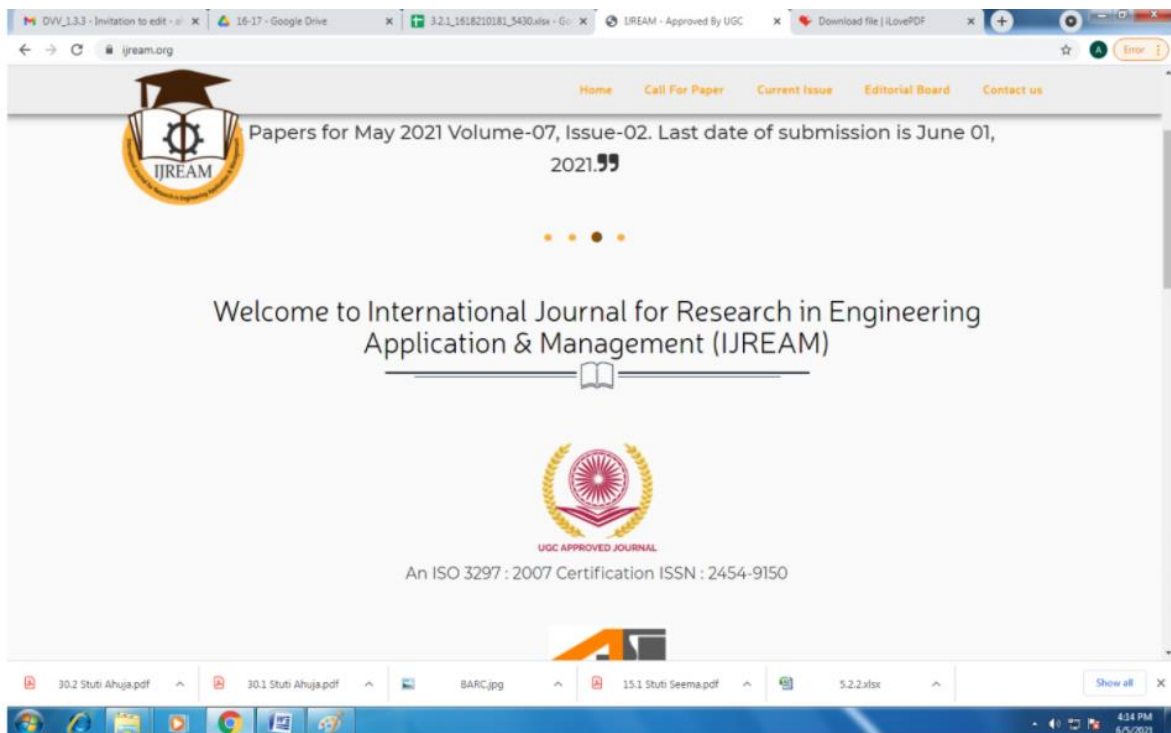
Name of Journal : International Education & Research Journal



14. Author's Name : Ms.Stuti Naresh Ahuja

Title: Classification of Low Resolution Satellite Images Using Image Fusion and De-correlation Stretch

Name of Journal : International Journal for Research in Engineering Application & Management





Classification of Low Resolution Satellite Images Using Image Fusion and De-correlation Stretch

¹Supraja Iyer, ²Reetu Desai, ³Smita Deore, ⁴Stuti Ahuja

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¹supraja.iyer@siesgst.ac.in, ²reetu.desai@siesgst.ac.in, ³smita.deore@siesgst.ac.in, ⁴ahuja.stuti@siesgst.ac.in

Abstract: Satellite images provide a lot of geographical information. Classification is one of the important step to use this information for various applications like glacier change detection, extracting mineral deposits, area under vegetation, disaster management etc. In proposed method, both high resolution and low resolution images will be classified. For the low resolution images, image fusion is carried out using IHS technique, one panchromatic image and its multispectral image is taken as input, geometric correction is performed on multispectral image relative to the panchromatic image, thus we obtain a high resolution image which is segmented and then classified. High resolution images are directly segmented and then classified. After comparing results for high resolution and low resolution images it is seen that, high resolution images directly given as input which are classified using proposed method are more accurate than low resolution images.

Keywords: Classification, IHS, Image fusion, Multispectral, Satellite Images, Semi Supervised Approach.

I. INTRODUCTION

A satellite image can be defined as an image of a part of location or an entire location on the surface of the earth, captured using artificial satellites from outer orbits of the earth. These images serve as input to a wide range of applications for extracting information and determining

illuminate the object to be captured. Hence can only be used during the day, i.e. in the presence of sunlight. Water Vapor Imagery helps indicate the amount of moisture present in the upper layers of atmosphere. Since they focus on water vapor flow they are used in weather forecasting. An Infrared satellite image uses a channel recorded from infrared energy

15.Author's Name : Dr. Pradip P. Patil

Title: Manufacturing strategy implementation and performance benchmarking in Indian packaging product manufacturing companies

Name of Journal : International Journal of Competitiveness



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Manufacturing strategy implementation and performance benchmarking in Indian packaging product manufacturing companies

Pradeep P. Padi, H. Narayanas, M. Akaraj, Published 2016 • Business

The purpose of the paper is to assess the competitiveness of the manufacturing firm. The approach adopted for assessing the competitiveness is through manufacturing strategy implementation and performance benchmarking which will guide manufacturers for improving the current manufacturing decisions. The proposed integrated framework not only helps in quantifying and comparing the current manufacturing performance but also facilitate to pin point misaligned manufacturing decisions that needs to... Expand

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16. Author's Name : Ganesh Kadam

Title: Surface integrity and sustainability assessment in high-speed machining of Inconel 718 – An eco-friendly green approach

Name of Journal : Journal of Cleaner Production



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Volume 147, 20 March 2017, Pages 273-283



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17. Author's Name : Lokpriya Gaikwad

Title : Adaption of TRIZ method for problem solving- a case study

Name of Journal : Int. J. Six sigma & Competitive advantage, (Inderscience),



Title: Adaption of TRIZ method for problem solving: a case study

Authors: Lokpriya Gaikwad; Vivek Sunnapwar; S.N. Teli

Addresses: Mechanical Engineering Department, SPCE, Andheri, Mumbai 400058, India ' Department of Mechanical Engineering, Lokmanya Tilak College of Engineering, Navi Mumbai 400709, India ' Mechanical Engineering Department, SCOE, Navi Mumbai 410210, India

Abstract: TRIZ (Theory of Inventive Problem Solving) is one of the well-known tools, based on analytical methods for creative problem solving. With the latest advances in technology along with the human advancements, a tough competition exists between various organisations and the top management. At this stage, the Research and Development (R&D) and Marketing of products are more important. As a result, the multinational enterprises should rely on both the innovations and marketing strategies of products for higher competency. TRIZ is a premier disruptive technology for innovation that can be used throughout many industries and sciences. Elements of TRIZ

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Authors: Lokpriya Gaikwad; Vivek Sunnapwar; S.N. Teli

Addresses: Mechanical Engineering Department, SPCE, Andheri, Mumbai 400058, India * Department of Mechanical Engineering, Lokmanya Tilak College of Engineering, Navi Mumbai 400709, India * Mechanical Engineering Department, SCOE, Navi Mumbai 410210, India

Abstract: TRIZ (Theory of Inventive Problem Solving) is one of the well-known tools, based on analytical methods for creative problem solving. With the latest advances in technology along with the human advancements, a tough competition exists between various organisations and the top management. At this stage, the Research and Development (R&D) and Marketing of products are more important. As a result, the multinational enterprises should rely on both the innovations and marketing strategies of products for higher competency. TRIZ is a premier disruptive technology for innovation that can be used throughout many industries and sciences. Elements of TRIZ can be effectively used by a wide range of people from children to adults. This paper suggests adapted version of contradiction matrix, a powerful tool of TRIZ and few principles based on concept of original TRIZ.

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Adaption of TRIZ method for problem solving: a case study

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18.Author's Name : Chavan Ashwinkumar Raosaheb

Title : On Fixed Point Theorem In Weak Contraction Principle

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RESEARCH ARTICLE

ON FIXED POINT THEOREM IN WEAK CONTRACTION PRINCIPLE.

Mr. Ashwin kumar Raosaheb Chavan¹ and Dr. Uttam P Dolhare².

Department of Humanities and Applied Sciences, SIES Graduate School of Technology, Nerul ²Department of Mathematics, D. S. M. College, Jintur.

Manuscript Info

Manuscript History

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 Published: February 2017

Abstract

The study of Fixed Point Theorem has been widely done in many fields. The Banach Fixed Point Theorem plays important role in this theory. It becomes milestone in the various paths in this field. In this paper we have discussed existence and uniqueness of fixed point in more general conditions. The concept of weak contraction mapping

19. Author's Name : Chavan Ashwinkumar Raosaheb

Title : On Picard's Existence and Uniqueness Theorem

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PICARD'S EXISTENCE AND UNIQUENESS THEOREM

Ashwinkumar Raosaheb Chavan¹ and Dr. U. P. Dolhare²

¹Department of Humanities and Applied Sciences, SIES Graduate School of Technology, Nerul

²Department of Mathematics, D. S. M. College, Jintur

Abstract

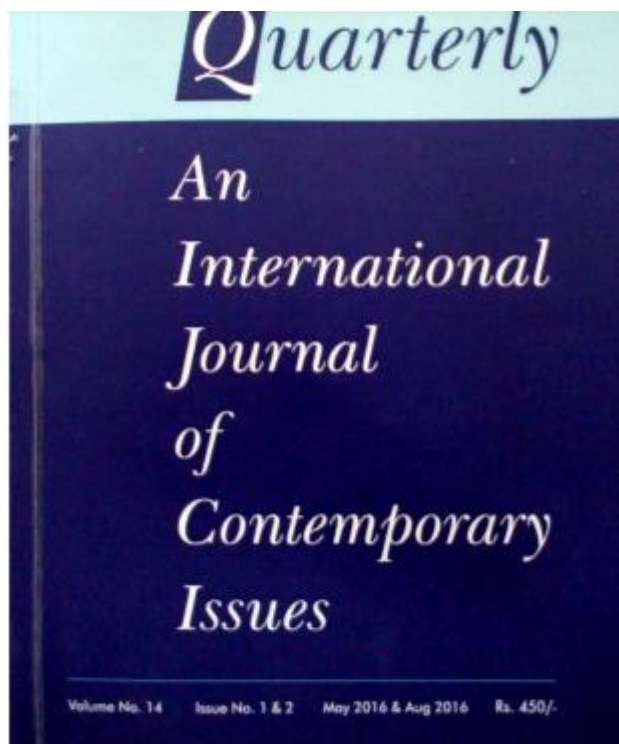
The study of fixed point theory in differential equation has mainly developed in generalization of conditions which ensure existence and if possible, uniqueness of a solution. In this paper we have discussed the necessary and sufficient condition for the function for the existence of a solution of differential equation.

Keywords: Picard's theorem, Lipschitz condition, continuity, Banach Fixed point theorem

20. Authors Name : Dr.Ramkishan Bhise

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Prescriptive analytics for customer recommendation system-A Review

Anindita Achint Khade
Department of Computer Engineering
SIESGST, Navi Mumbai, India
anindita.khade@siesgst.ac.in

Abstract— Customer satisfaction has become the key concept of business nowadays. Companies from various domains like hospitality, retail etc. mainly concentrate on building customer relationships. Customers usually review the products they buy. This review can be taken into consideration as a measure of customer satisfaction or dissatisfaction. Also their posts on social media, emojis etc. can be analyzed to measure the same. But the problems faced by industries are to decide their targeted customers. This can help to maximize profit. Also segmentation of customers becomes an issue when targeting customers. This paper will pave a path as to what all things CSP(Customer service provider) has to look into to avoid any customer churn.

are some of the factors that have greatly affected customer behavior in the past 20 years:

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- b) Evolution of technology- More ways to travel.
- c) Hyper efficiency- People need faster and cheaper ways to solve their problems.
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





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A Cognitive Approach for Real time Monitoring of CO and CO₂ Emissions in Vehicles

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Abstract— With rise in the amount of heat trapping gases the earth is getting warmer day by day, leading to global warming. CO₂ and CO are the major contributors of the greenhouse gases. The Internet of Things (IOT) extends internet connectivity to a diverse range of devices and everyday things that utilize embedded technology to communicate and interact with the external environment, all via the Internet. The main aim of this research is, real time monitoring of CO₂ and CO emission in vehicles and industries using cognitive IOT, which in turn can control green house effect. This paper focuses, on the design of an intelligent green gas detector for real time monitoring of CO₂ and CO emissions in vehicles using Cognitive Internet of things. The implemented model adheres to cognitive IOT framework and provides information for utilization of vehicular features based on the CO₂ and CO levels. The model is cost effective and can be easily produced and integrated with vehicles.

Keywords— Cognitive IOT, CO₂ monitoring, Internet centric, Green House Effect, CO monitoring.



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PREDICTIVE ANALYSIS IN HEALTHCARE

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PREDICTIVE ANALYSIS IN HEALTHCARE

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ABSTRACT:

In healthcare, large amounts of heterogeneous medical data have become available in various healthcare organizations. The enormity and complexity of these datasets present great challenges in analyses and subsequent applications to a practical clinical environment. The rapidly expanding field of big data analytics has started to play a pivotal role in the evolution of health care practices and research. It provides tools to accumulate, manage, analyze, and assimilate large volumes of disparate structured and unstructured data produced by

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The Building of Pulsed NQR/NMR Spectrometer

Preeti Hemnani, A. K. Rajarajan, Gopal Joshi, S. V. G. Ravindranath

Abstract

NQR spectrometer designed is composed of four modules; Transmitter, Probe, Receiver and computer controlled (FPGA & Software) module containing frequency synthesizer, synchronous demodulator, pulse programmer and display. The function of the Transmitter module is to amplify the RF pulse sequence to about 200 W power level into the probe (50 Ohm) which is a parallel resonance circuit with a tapped capacitor. The probe excites the nucleus and picks-up the signal emitted from the nuclei. The nuclear signal at the same frequency as the excitation, which is typically in the range of a few microvolts is amplified, demodulated and filtered (1 kHz to 100 kHz) by receiver module. ¹⁴N NQR, ¹H and ²H NMR signals are observed from the spectrometer. As the SNR of NQR signal is very low, NQR signal processing based on Adaptive Line Enhancement is presented.

Keywords

ALE; ANC; DDS; FPGA; NMR; NQR

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Detection of NQR signals using wavelet transform and adaptive filters

Preeti Hemnani , A.K. Rajarajan , Gopal Joshi , S.V.G. Ravindranath

<https://doi.org/10.1504/IJIT.2018.090863>

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Abstract PDF

Abstract

NQR signal processing method based on two adaptive filters techniques namely adaptive noise cancellation (ANC), adaptive line enhancement (ALE) and wavelet transform are studied and it is shown that ALE is faster

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A Reliable Network System for Railway Track Crack Detection

Authors Authors and affiliations

Pragati Jadhav, Shivani Kondlekar, Divyata Kotian, Navya Kotian, Preeti Hemnani

Conference paper

First Online: 18 September 2018



Part of the [Lecture Notes on Data Engineering and Communications Technologies](#) book series (LNDECT, volume 15)

Abstract

In the current railway system, it is important to have safety measures to avoid accidents and loss of human life and resources. The important issue that causes an accident is the obstacles on the track. This project deals with the efficient method to avoid accidents due to cracks on the track and obstacles. The main aim of this project is to detect the crack in the railway track and alert the nearby stations. A GPS system is being used to point the location of faults on tracks. The project presents a solution to provide an intelligent train tracking and management system to improve the existing railway transport service. The solution is based on a powerful combination of ultrasonic sensor, peripheral interface controller (PIC), global system for mobile communication (GSM), global positioning system (GPS) technologies, Bluetooth module, and Android application. Using Android application, we can send messages to nearest railway stations.

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Car Overspeeding Detection

¹Madhura Joshi, ²Harini Sankar, ³Adarsh Kumar Singh, ⁴Harshad Dharmadhikari, ⁵Pushkar Sathe
^{1,2,3,4} Students, ⁵Professor

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^{1, 2,3,4,5} SIESGST, Nerul, Navi Mumbai, India

Abstract: This is a traffic control system which includes a device that performs detection of vehicle speed which is running above specified speed on highways and other roads as well as notifies authorities in an event of violation of rules. In earlier times, a lot of ideas were implemented to detect harsh driving or overspeeding of vehicles. Many of these system require human intervention and a lot of efforts which is very hard to implement. In this project we are designing the system that aims at early detection of over speeding vehicles and alert of those to the concerned authorities wirelessly. This in turn prevents occurrence of road accidents. The safe speed limit is specified by the authority which is responsible to control this system. The vehicle speed limit is depending on the traffic at particular location. System will capture the speed of vehicle and the time taken by vehicle to travel from one point to end point and it will display it on LCD where system is deployed. In addition to this, the buzzer gives a sound alert to the police and sends the required vehicle details and other details to the authority via ZigBee.

Index Terms - RFID, ZigBee, LCD, IR Proxy Sensor, Microcontroller

I. INTRODUCTION

A large number of road accidents occur all over the world. The major cause of many of these traffic collisions is rash driving. A total of 4,74,084 traffic accidents were reported during the year 2001 in India. According to the analysis chart as shown in fig1[3], the number is increasing day by day. The traffic has increased considerably in India and yet there are no efficient measures to control this traffic or monitor the speed of the running vehicles. Thus, to overcome this problem and reduce the number of death rates occurring due to traffic collisions introduction of new innovative speed enforcement technology is necessary.

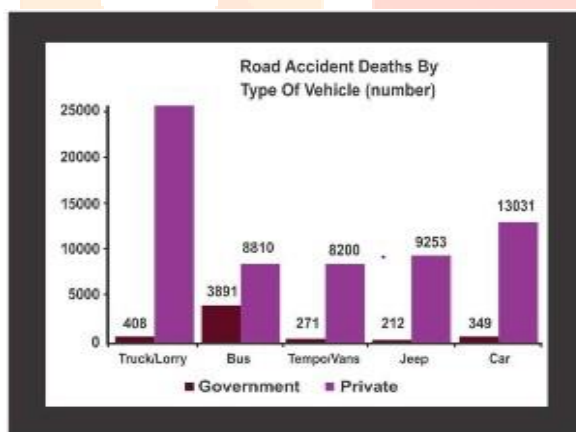


Figure 1. Road accident analysis chart

In the present system, to detect rash driving, police uses a handheld radar gun and aims at the vehicle to record its speed. If the speed of the vehicle exceeds the allowable speed limit, the nearest police station is informed to stop the speeding vehicle. This process is more time consuming and as compared to the continuous increase of traffic this system cannot be trusted with the lives of people.

Our proposed project aims to develop a wireless system that detects cars driving at speeds over a specified limit and inform concerned authorities immediately. This system does not need any human interception and a lot of time is saved effectively. The time required for a particular car for moving from one point to other is first calculated on the basis of the time required the speed of the car is determined. This data is then transmitted to the concerned police authorities at a remote location wirelessly.

The mechanism consists of a transmitter and receiver pair that works in combination to detect the vehicle. The details of the vehicle are read by the RFID reader and stored in the system database. The microcontroller calculates the speed of the vehicle based on time needed and displays the speed on LCD screen. The buzzer alarm sounds if an over speed is detected. This system is designed in such a way that, if a specific car over speeds once then a certain amount of fine is cut from the owners' account and if the same car crosses the speed limit thrice then the owner's license gets cancelled.

II. RESEARCH METHODOLOGY

1. Background Overview

A. Overspeed Detector For Vehicle Control System

Sibley, Henry C. (Adams Basin, NY) Auer Jr., John H. (Fairport, NY) Smith, Willis R. (Rochester, NY)

What it claimed is:

1. An over speed detector for vehicle control system comprising sensing means for generating an alternating current actual speed signal for the vehicle and sensing means for delivering an alarm signal whenever the actual speed signal is indicative of a speed above a selected speed limit wherein the improvement comprises:

2. An over speed detector according to claim 1 including said control and switching means comprises:

The above invention relates to the overspeed as a reason for vehicle control systems and particularly detectors that are used in systems for controlling the increase in number of vehicles automatically from centralized locations. The automatic vehicle control systems that are handled without operator need more security and supervisory subsystems for safe and accurate operation. In general, an automatic vehicle overspeed control system is necessary in order to provide a safe drive for the public. The supervisory subsystems carry out the functions such as performance monitoring, routing etc. It is the main objective of this system to handle the proper arrangement, its limitations, and advantages according to the specified arrangement. The other objective is to provide an improved position, direction and safe speed of the vehicle. The more important thing is to design an optimum system to maintain proper communication between the vehicle and the center in a secure way.

B. Development of Vehicle Tracking System using GPS GSM Modem.

(IEEE 2013, Authors: Pham Hoang Oat, Micheal Drieberg and Nguyen Chi Cuong, Electrical and Electronics Engineering Department, University Technology PETRONAS)

This paper presents the development of the vehicle tracking system's hardware prototype. Specifically the system will utilize GPS to obtain a vehicle's co-ordinate and transmit it using GSM modem to the user's phone through the mobile network. The three main components of the systems are the GPS receiver module, GSM module and Arduino microcontroller. The GPS receiver module's main function is to obtain the vehicle's coordinates. The se coordinates are the location information to the GSM to be transmitted through the mobile network to the user when requested or on a periodic basis.

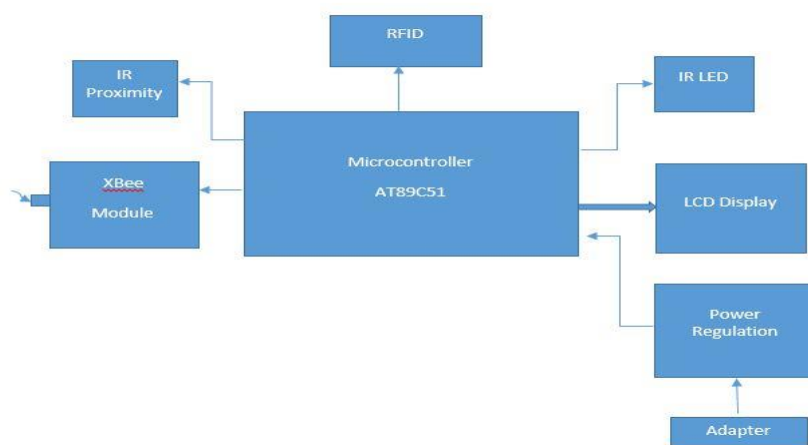
C. RFID Based Automatic Speed Limit Warning System.

In the above paper, investigation is done on the automatic speed limit transmission based on RFID technology. The present speed detection systems include GPS systems and get recognition based on real time image processing. GPS based systems detects the location of vehicle by GPS navigation system. Satellite signal is received by GPS Sensor and calculates the location of the vehicle. The system finds the location of the vehicle on the road map and indicates the corresponding speed limit according to the speed limit stored in database. Cameras installed in front of the vehicle capture the images in front of vehicle. Accordingly, algorithms are prepared to identify the speed limit signs on roads by processing the captured images. In this research paper, the speed limit is stored in RFID tags that are embedded in the sign posts at points on the roads. As soon as the vehicle passes the point, the RFID reader will take the data of the corresponding speed limit information from the tags.

2. Proposed System:

In this system, we are mainly using Microcontroller AT89C51 and ZigBee technology which is very helpful in communication because its low power consumption limits transmission distance to 10-100 meters and great efficiency. Also we are using RFID cards and IR sensors and LCD display which will help us to detect and display the speed of any vehicle passing through the area where this system is implemented. Power supply of LM78XX series which will help to provide us fixed voltage for system.

This project has been designed assuming that the maximum permissible speed for highways is either 40 kmph or 60 kmph as per the traffic rule. Our main purpose is to detect speed of over speeding vehicle. This system can display the exact value of vehicle's speed detected with the respective time duration. Before starting the operation, we have to verify whether the power supply output is proper. If yes, apply power supply to the circuit by keeping switch to ON.



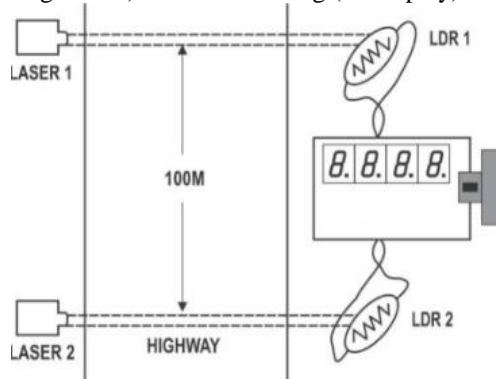
3. Working Explanation:

- In this system, we will install Two IRs and RFIDs 100 meters apart on one side of the highway.
- In the system there will be IR Tx and Rx on either sides of road , photodiodes are installed such that IR light falls directly on it.
- First of all, we reset the circuit, so display will show 0000 reading. Then speed limit either 40 kmph or 60 kmph will be adjusted as maximum speed allowed. When any vehicle crosses first IR Diode light, Photodiode 1 will trigger IC1.
- The output of IC1 goes high for the time set to cross 100 meters with the selected speed (60 kmph) and LED1 glows during for period. When the vehicle crosses the second IR Diode light, the output of IC2 goes high and LED2 glows for this period.

- Buzzer will sound the alarm if the maximum permissible speed is violated by vehicle between the two point of IR sensors.
- The time taken by the vehicle to cross both the IR Diode beams is calculated in the microcontroller and at the same time the speed of the vehicle is displayed on LCD screen.
- If any vehicle crossing these two points with time resolution of 0.01 seconds from which the speed of vehicle can be calculated as:-

$$\text{Speed (kmph)} = \text{Distance} / \text{Time}$$

$$\text{Speed} = 0.1 \text{ km} / (\text{Reading} * 0.01) / 3600 \text{ or reading (on display)} = 36000 / \text{Speed}.$$



- As per the above equation for a 40 kmph the display will read 9 second, and for a speed 60 kmph the display will read 6 seconds.
- The RFID reader gets the vehicle details (no) that has over speeded and sends it to the authorities via ZigBee wirelessly.
- If any car crosses the speed limit then the system gives an alarm and a certain amount of fine is deducted from the owner's account and a record of it is maintained in the database by the police authority. If the same car overspeeds thrice or more times, the owner's license gets cancelled automatically.

4. Enhancements

A. Advantages

- Effective method to record vehicle speed.
- Does not need any human interception.
- Records car speed as well as wirelessly informs authorities of over speeding detection.

B. Future modifications

- The CCTV Camera can be installed on highways along with speed detector. If any vehicle has violates the maximum speed limit then this implementation of CCTV will be triggered to take a picture of the vehicle.
- Major benefit is adding voice announcement system. By adding this in system, it will notify the driver that vehicle has crossed the over speed conditions.

III. CONCLUSION

The car over speeding detection system reduces the number of road accidents and provides a safe journey by controlling the speed of vehicles, in turn avoiding traffic collisions. Thus, the work of the traffic police authorities is minimized and they can control the rash driving of cars efficiently and accurately with ease by just sitting in the control room. In future, this concept can be further extended by integrating a camera with this system that will capture the picture of the over speeding vehicle's number plate and send it to the police authority for further process.

IV. ACKNOWLEDGMENT

We wish to thank the management and Principal, SIES Graduate School of Technology, Nerul for their support to undertake this project. We would like to thank our project guide **Prof.Pushkar Sathe** for his enormous co-operation and guidance. We have no words to express our gratitude for a person who wholeheartedly supported the project and gave freely his valuable time while making this project. All the inputs given by him have found a place in the project. The technical guidance provided by him was more than useful and made the project successful.

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Machine Learning Based Autonomous Road Maintenance System Using Cold Lay Asphalt

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Abstract
Road maintenance is quotidian problem faced by the concerned authorities as it requires time, resources and labor and if not treated with utmost alacrity, may result in mishaps and accidents. The following paper suggests an innovative approach that can reduce the time and labor requirement by incorporating concepts of image processing and machine learning with cutting edge materials like Cold Lay Asphalt to give an efficient solution to the afore mentioned problem. The primary goal of this paper is to identify and highlight an application of autonomous vehicles. To this end, the following paper proposes a machine learning based autonomous road maintenance system (ML-ARMS). The vehicle (Bot) in ML-ARMS is trained and controlled using Raspberry-Pi. The accuracy of the Machine Learning algorithm for 500 training images is found to be 42.778%.

Keywords: Autonomous Vehicle, Cold Lay Asphalt, Road Maintenance.

cure the roads and make sure that the roads are smooth enough for traversing. The cold lay asphalt is a type of mixture analogous to that of concrete as it doesn't need any type of heating and is used at variety of temperature range. The material is a lot like conventional asphalt as it takes the shape of the potholes just after dispensing the material.
The paper is structured to discuss the related work in section II, The Autonomous Road Maintenance System in section Methodology in section IV; Results in section V; Conclusion & Future Scope in section VI followed by References.

Related Work
Shuaishpauai Yang et. al. [1] has proposed a kinematic model based real time path planning algorithm. The algorithm considers all the constraints including kinematic constraints and obstacles; represents them using polynomial parameter and generates an AA guide line using the Bezier curve. Emilio Frazzoli et. al. [2] has seconded that with a model which proposes a randomized path planning architecture for dynamic systems in the presence of both considerations fixed and

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DPRA-FC: Dynamic Probabilistic Rate Allocation and Flow Control Algorithm During Congestion in Wireless Sensor Network

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² Department of IT, RMK College of Engineering and Technology, Chennai 601206, India

RESEARCH ARTICLE

Wireless Sensor Network emerges as a solution to replace the large network deployment. WSN grow due to the low power embedded systems and substitute the huge network infrastructure. However, the Data collection and data mining play a vital role in decision-making during congestion. In the existing WSN systems, congestion controls obtain through intra-clustering and Omnidirectional antenna. In modern congestion control, WSN applies with multi cross-layer techniques to avoid infrastructure cost and to increase the efficiency of packet delivery. In the proposed system, we apply probability control algorithm with three-tier logic to control congestion. The three tier logic works in between the MAC and Network layer for efficient congestion control through varying the flow control of data size and rate. The flow control of data size and rate maximize the throughput and packet delivery with low power consumption.

Keywords: Network Throughput, Wireless Sensor Network, Congestion Controlling, Probabilistic Cross Layer Coding.

1. INTRODUCTION

In WSN, the data from sensor collect through each node deployed in different locations. The deployed nodes are limited to bandwidth, power, data redundancy, and various

In addition, 'g' denotes the average number of transmissions per time slot. From the above equation, the observation would be that the energy consumption in Wireless Sensor Network is inversely proportional to the

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Multi Lug Nut Remover

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ABSTRACT

As the quality of living in the community has heightened, most of the household have at least one automobile. Maintenance of automobile is one of the big criterions for its life span. Without exception each automobile producer equip means such as L wrench & jack, but still using these equipments demand an expert. This complication arises due to implementing the correct torque to pull out the lug nuts. Maximum times the automobilist depends upon the tow truck or nearby technician to fix the issue. This repeatedly is in the case of elderly or female drivers, so it is necessary to have equipment that should be convenient in use, effortless maintenance, easy at hand, simple in operation and capable of removing all lug nuts at once. The design of this equipment is based on pitch circle diameter (PCD) in the range of 100mm to 115mm and removal of 4 number of lug nuts in one stroke for greater automobiles present.

KEYWORDS: Multi lug nut remover, Automotive maintenance, Modeling, Vehicle

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ON APPLICATION OF FIXED POINT THEOREM FOR SOLVING INITIAL VALUE PROBLEMS AND INTEGRAL EQUATIONS

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On Completion of Normed Vector Space and Contraction Mapping

Research Article

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Effect of Metal Doping on Bandgap of Titanium Dioxide Anatase Nanoparticles

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ABSTRACT: In this study, nanoparticles of undoped titanium dioxide were prepared using precursor Titanium tertbutoxide via Sol gel technique. Using a single process, Co, Cu, Fe, Ni and Zn doped TiO₂ nanoparticles were prepared by simply changing the precursor dopant metal salt. The nanostructures were characterised by a Scanning Electron Microscope, XRD, and Ultraviolet visible Spectroscopy. SEM confirmed the size of nanoparticles nearly 9 to 20 nm. XRD analysis proved that the position of peaks was not affected by doping. The band gap for undoped and doped samples are estimated using the $(\alpha E_{\text{photon}})^2$ versus E_{photon} plots. Metal doping decreases the band gap of anatase titanium dioxide nanoparticles is confirmed with our results.

Keywords: Band gap; SEM; Titanium dioxide nanoparticles and transition metal doped.

INTRODUCTION: Titanium dioxide is very useful because of its resistance to photochemical erosion. It is convenient to handle and is comparatively cheaper. It is used in photocatalytic application as it can be prepared easily. Its photostability is high. Its holes have strong oxidizing power. Large surface area increases amount of photon generated electron hole pairs. Titanium dioxide is most suitable catalyst for organic contaminants.

Titanium dioxide has been used for the photodegradation of organic dyes and decolorization of wastewater. Using TiO₂ as photocatalyst has one drawback that it has a wide energy band and its band gap (3.2 eV for anatase phase) falls nearly in the UV range of electromagnetic spectrum. Only UV light forms electron hole pair required for photocatalytic process.

Since UV light is only 3-5% of the solar spectrum, scientist are trying to decrease its band gap so that electron hole formation should occur at the incidence visible light. Undoped titanium dioxide is sensitive to light in the UV spectrum ($\lambda < 387$ nm). In order that titanium dioxide absorb light in the visible range effectively ($\lambda > 400$ nm), it can be doped with a wide range of metal and nonmetal impurities [1].

One of the way to shift optical response of TiO₂ to the visible range is by adding a transition metal oxide such as that of copper, zinc, cobalt, nickel and iron in an adequate amount [1] [2] [4] [6]. The recombination

of electron hole pairs (photo generated) is reduced due to this doping and causes red shift.

MATERIALS AND METHODS:

Materials: All Analytical grade purity reagents were used without any further purification. Titanium tert-butoxide (98% purity) was the titanium precursor used obtained from Sigma Aldrich. Hydrochloric acid [HCl] was supplied by Highmedia and Analytical reagent grade ethanol was obtained from Changshu Yangyuan Chemical, China.

De-ionized water was used for preparing all standard solution. Loba Chemie supplied Anhydrous ferric chloride (FeCl₃), copper sulphate pentahydrate (CuSO₄·5H₂O), Cobalt Chloride hexahydrate (CoCl₂·6H₂O), Nickel Chloride hexahydrate (NiCl₂·6H₂O) and Zinc Acetate dehydrate (Zn(CH₃COO)₂·2H₂O) of 99% purity.

Method of Preparation: Undoped sample is prepared using sol gel method described in [10][13]. Solution A is prepared with 2.5 mL of Titanium tert-butoxide, 25 mL ethanol added together with constant stirring. Solution B is prepared with 1.25 l. of distilled water, 0.25 mL of Hydrochloric acid and 25 mL ethanol added together with constant stirring. Solution A and B were mixed with continuous stirring for 2 hrs. A sol is allowed to transform into gel which was dried under 80°C for 1 hr. The dry gel was then sintered at 450°C

for 3 hrs to obtain desired undoped TiO₂ Nano crystalline particles.

Extra solution ‘C’ was prepared for metal doped TiO₂ nanoparticles,. Solution C was a 0.73 M solution of the dopant metal precursor salt in distilled water. 1 mL of solution ‘C’ was added to solution B and rest of the procedure is same as above. The amount of metal salt solution used was calculated for a Ti: Metal atomic ratio of 0.05.

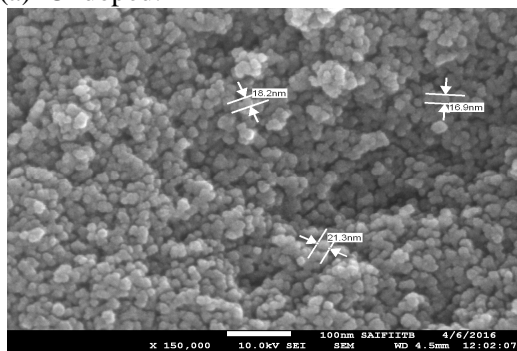
Characterisation: D8 Advance X-ray diffraction meter (Bruker AXS, Germany) was used to characterize the crystalline structure (room temperature, 30 KV, 30 mA), using Cu Ka radiation (=0.15406 nm). The crystal Field Emission Scanning Electron Microscopy (JEDL JSM-7600F) was used to study the morphology and structure of the particles.

Size of nanoparticles was measured. UV/Vis spectrophotometer Perkin Elmer Lambda XLS+ was used to study the absorption spectra of the TiO₂ samples.

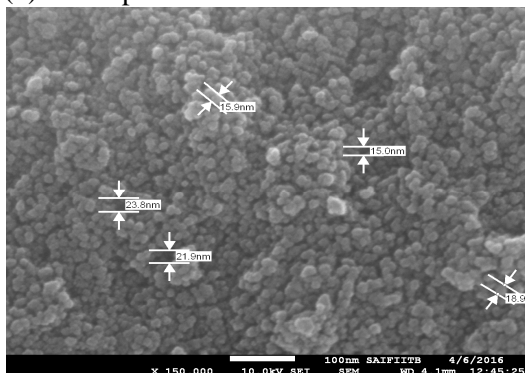
RESULTS AND DISCUSSION:

SEM Analysis: “Fig. 1,” (a) and (f) shows the SEM images along with the particle size distribution of the synthesized undoped and doped TiO₂. SEM imaging of all six samples showed spherical nature of nanoparticles with particle size nearly 11nm to 24nm. Sample 1 (Undoped), Sample 2(Co doped), Sample 3(Cu doped), Sample 4(Fe doped), Sample 4(Fe doped), Sample 5(Ni doped), Sample 6(Zn doped)

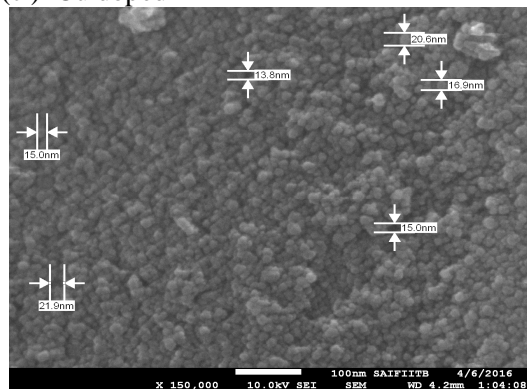
(a) Undoped:



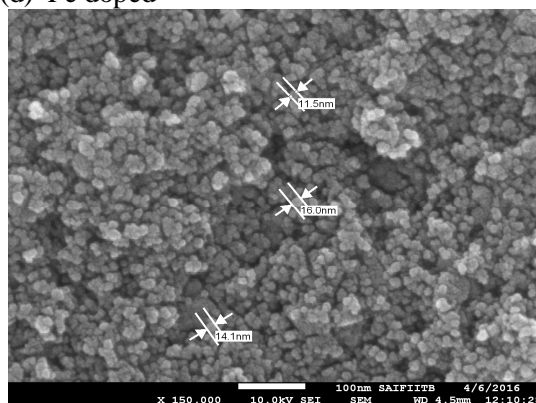
(b) Co doped:



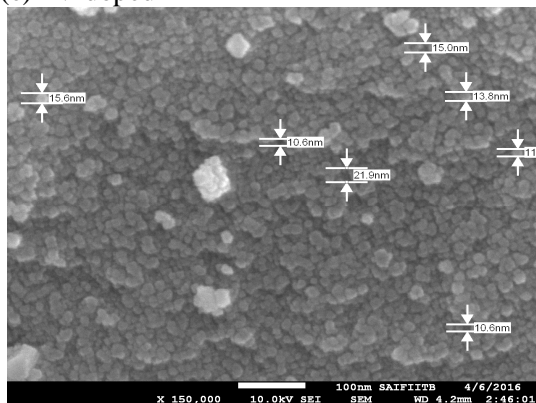
(c) Cu doped



(d) Fe doped



(e) Ni doped



(f) Zn doped

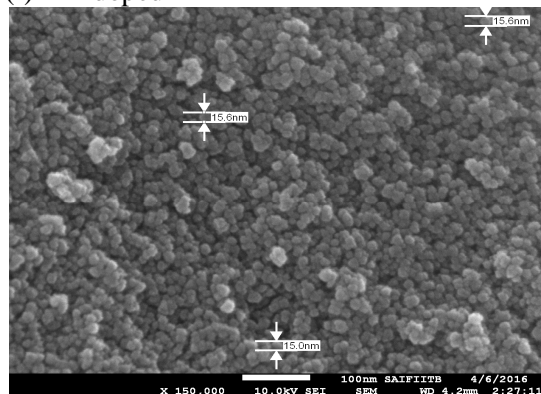


Figure 1: SEM Pictures of Prepared Samples.

UV-Visible spectra: The band gap calculations are done as per procedure [14][15]. The graph is plotted between $(\alpha E_{\text{photon}})^2$ versus E_{photon} for a direct transition which is most suitable for anatase TiO_2 particles, where E_{photon} is the photon energy, $E_{\text{photon}} = (1239/\lambda)$ eV, λ is the wavelength in nm and α is the absorption coefficient. An absorption energy is given by the value of E_{photon} extrapolated to $\alpha = 0$, which corresponds to a bandgap E_g . The bandgaps of all the six samples were calculated as tabulated below. Our calculated bandgap values are compared with values mentioned in the literature.[2]

The results showed the band gap of Titanium dioxide was narrowed due to metal doping which improves the photo reactivity of TiO_2 . Our results matches with the literature i.e. band gap decreases due to metal doping.

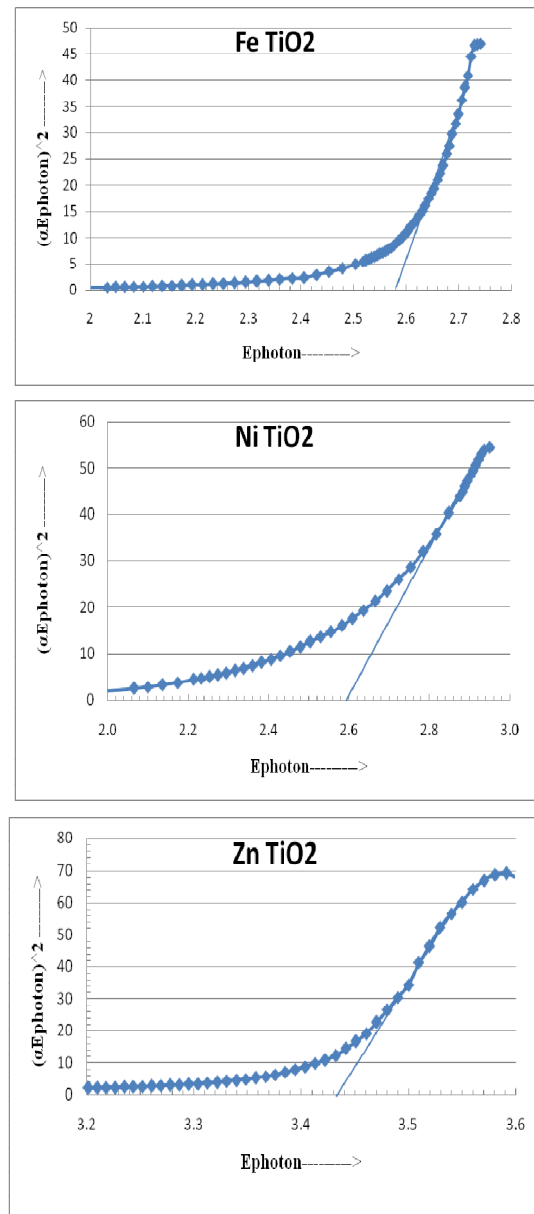
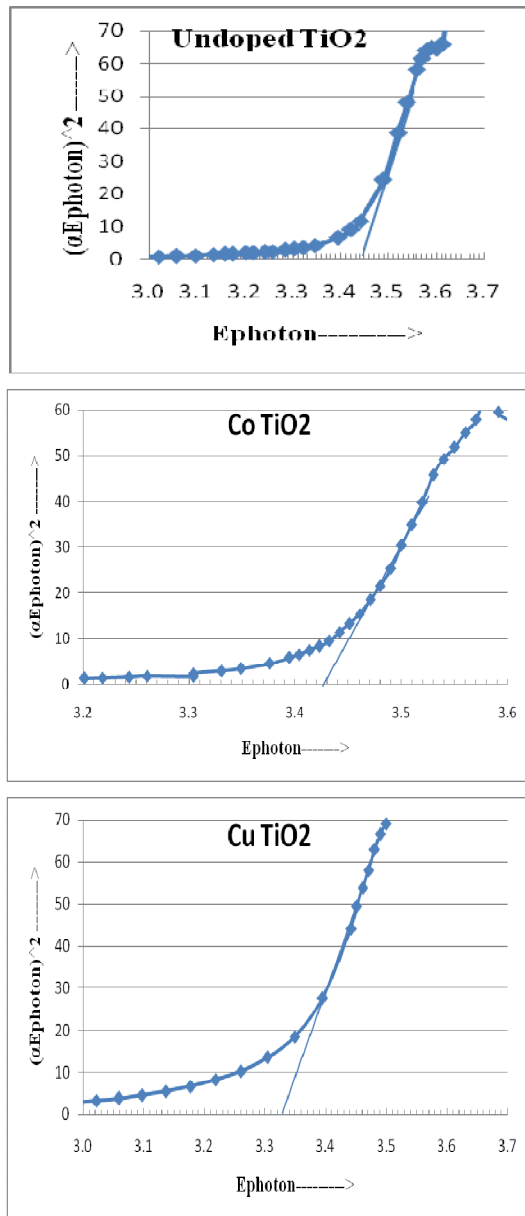


Figure 2: Variation of Absorbance of the Prepared Samples with Incident Wavelength.

XRD analysis: JCPDS-84-1286 was referred to compare the peaks of samples which confirmed its anatase structure at $2\theta = 25.4^\circ$. Also it is noted that our sample's diffractograms do not have any peak assigned to rutile phase ($2\theta = 27.36^\circ$). The crystallite size was determined with the help of the Scherrer formula below:

$$G = 0.9\lambda / \Delta(2\theta) \cos \theta$$

where λ is the Cu $K\alpha$ radiation wavelength and $\Delta(2\theta)$ is peak width at half-height. The calculated sizes are mentioned below. XRD of all samples showed the peaks are occurring at the same angle that means doping did not cause any effect on anatase nature of TiO_2 nanoparticles.

Table 1: Calculated Band Gap of Syntheized Sam- ples.

Sample	Band Gap	Band gap literature	Differ- ence	Maximum absorb- ance
Undope d TiO ₂	3.43 eV	3.23 eV	0.2	Below 370
Fe doped TiO ₂	2.58 eV	2.86 eV	-0.28	Below 480
Co doped TiO ₂	3.42 eV	2.69 eV	0.73	Below 370
Ni Doped TiO ₂	2.58 eV	3.25 eV	-0.67	Below 650
Cu doped TiO ₂	3.34 eV	3 eV	0.54	Below 370
Zn doped TiO ₂	3.41 eV	3.2 eV	0.21	Below 380

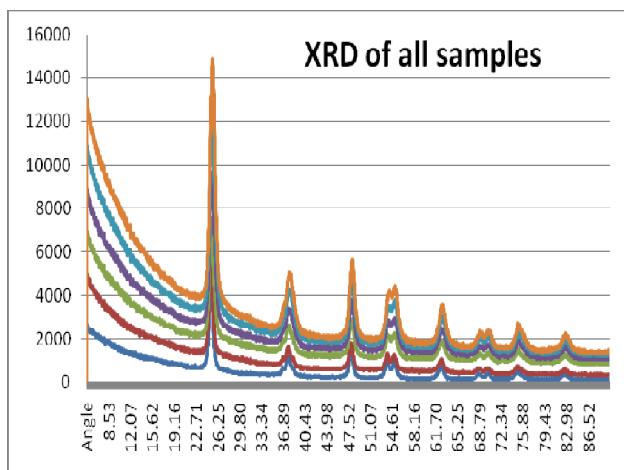


Figure 3: XRD Spectrum of Prepared Samples.

Table 2: Sample Size Calculations of Synthesized Samples.

Sample	Size in nm
Undoped	62.93
CO doped	44.98
Cu doped	62.53
Zn doped	19.67
Ni doped	12.11

CONCLUSIONS:

- SEM pictures of samples show uniform morphology with spherical particles.
- The particle size 11 nm-24 nm which matches with the size calculated using XRD.
- The prepared TiO₂ sample’s absorption spectra exhibited strong absorptions below 370 nm for undoped, Cu doped and Co doped samples, below 380 for Zn doped, below 480 for Fe doped, below 650 for Ni doped.
- The band gap of 3.4eV of the prepared sample confirmed its nano crystallite size as larger band gap have smaller crystallite size. Bulk sample of TiO₂ has band gap of 3.2 eV.
- XRD pattern revealed that the prepared titania composed of predominantly anatase phase. The position of peaks was not affected by doping.
- Band gap decreases due to metal doping in Anatase TiO₂ nano particles.

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Stability Model for RPL with Minimum Rank Hysterisis Objective Function in 6LoWPAN

International Journal of Pure and Applied Mathematics, Volume 118 No. 5 2018, 731-737

8 Pages • Posted: 14 Mar 2018

Shubhangi Kharche

SES Graduate School of Technology, Department of Electronics and Telecommunication (EXTC), Students

Sarjany Pawar

Utkarsh Institute of Technology - Department of Electronics and Communication

Date Written: March 11, 2018

Abstract

In the paper, the Stability Model for RPL (SM-Routing Protocol) is proposed and validated with results based on its performance with Minimum Rank Hysterisis - Objective Function (MRHOF) in (P) over Low Power (Lo) Wireless Personal Area Network (WPAN) composed of Zoloto Z1 nodes. The proposed model is valid for both link and node metrics associated with Minimum rank Hysterisis - Objective Function. A new stability metric termed as Self-Adaptive Relative Stability Factor (SARSF) is defined which depends on the parameters creating instability in the RPL based 6LoWPANs. Comprehensive performance comparison of RPL for the objective function with the link metric ETX (MRHOF-ETX) and the node metric (MRHOF-Energy) is done for the parameters defining instability along with the control overhead, Neighbor Discovery Protocol (NDP) overhead, data transmission efficiency and the energy consumption (EC). Percentage Stability (S) is inversely related to the Self-Adaptive relative stability factor with energy consumption (SARSF-EC). Though the energy consumption for MRHOF-Energy is lower by 28.55% than that of MRHOF-ETX the SARSF outweighs for the prior in terms of parameters generating the routing instability. Thus the percentage stability (S) for MRHOF-Energy on an average over various probing intervals is 3.2% lower than its counterpart. The battery life for nodes deployed in medium scale 6LoWPAN averaged over different probing intervals is 36 hours more for MRHOF-Energy than that for MRHOF-ETX.

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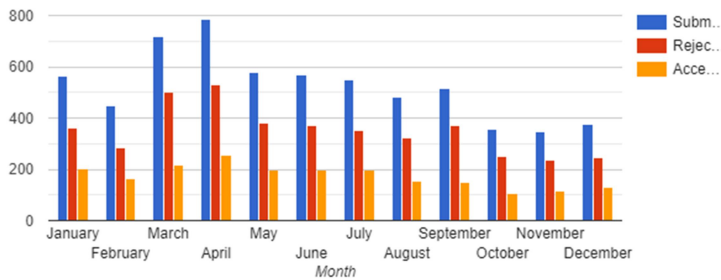
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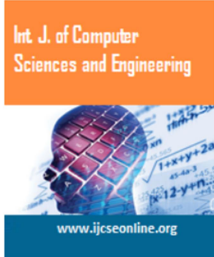
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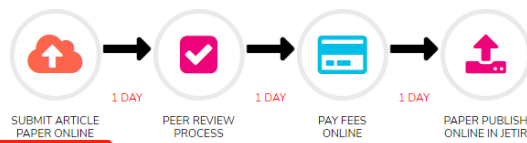
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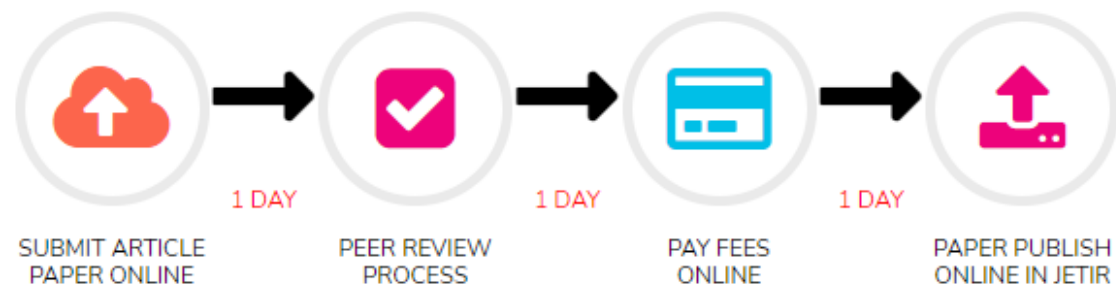
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Improving network lifetime and speed for 6LoWPAN networks using machine learning

Shubhangi Kharche*

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Usha Mittal Institute of Technology,
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Abstract: Wireless communication networks have an inherent optimisation problem of effectively routing data between nodes. This problem is multi-objective in nature, and covers optimisation of routing speed, the network lifetime, packet delivery ratio and overall network throughput. In this paper, a machine learning (ML)-based algorithm is proposed with an objective to minimise the network delay and increase network lifetime for 6LoWPAN networks based on RPL routing. The ML-based approach is compared with normal RPL routing in order to check the performance of the system when compared to recent routing protocols. It is observed that the proposed machine learning-based approach reduces the network delay by more than 20% and improves the network lifetime by more than 25% when compared to RPL-based 6LoWPAN networks. The machine learning approach also takes into account the link quality between the nodes, thereby improving the overall QoS of the communication system by selecting paths with minimal delay, minimal energy consumption and maximum link quality.

Keywords: machine learning; 6LoWPAN; RPL.

Reference to this paper should be made as follows: Kharche, S. and Pawar, S. (2020) 'Improving network lifetime and speed for 6LoWPAN networks using machine learning', *Int. J. Intelligent Systems Technologies and Applications*, Vol. 19, No. 4, pp.307–321.

Biographical notes: Shubhangi Kharche is currently working in SIES Graduate School of Technology and having rich experience in teaching. She is currently doing her research in the area of wireless sensor networks.

Sanjay Pawar is working as the Principal in Usha Mittal Institute of Technology and having two decade of experience in industry, research and teaching. His research interest includes fibre optic communication and optical networks, wireless networks, backbone and access. He has also published paper in refereed journals.



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Critical Review On Pull-In Of Aluminium In Continuous Casting

R. S. Fegade, Dr. R. G. Tated, Dr. R. S. Nehete,

Abstract: This study offers a comprehensive review of the research articles related to the continuous casting for a selected grade of Aluminium alloys. Data were obtained from various articles between the years of 1976 to 2018 in journals and conference proceedings. Five categories have been distinguished based upon the studies of casting surface defects, casting speed effects, mould parameters, thermal and heat flow and other continuous casting survey. The most important defect produced is Pull-in of the casting which results due to improper control over solidification parameters. Many researchers discussed the issues of steel casting and rolling ingot defects such as crack, cold shut, run out, filter puncture and drag marks. Rare research work was found on the Pull-in problem in the rolling ingot of aluminum casting. Researchers attempted to solve this problem by CFD approach or by Finite element analysis approach for steel casting, but there is ample scope for modeling to be developed for many casting grades of aluminum alloys. So there is need to develop model for selected aluminum alloys continuous casting.

Index Terms: Aluminium Rolling Ingot, Continuous Aluminium Casting, Pull In, Rolling Ingot defect, shell zone, solidification.

1. INTRODUCTION

CONTINUOUS casting is the primary method in the production of Aluminium billets, blooms or slabs. In the continuous casting process, the molten aluminium pours from ladle through tundish to the water cooled mould by a submerged entry nozzle. The molten metal gets solidified into "semis" and subsequently pulled/rolled out into final product [1, 2]. The tundish also used as a refining vessel to float out detrimental inclusion which may cause surface defects and internal stress concentration during rolling operation. It is important to control the casting speed to avoid the defects in final mould. Casting speed needs to maintain same with incoming liquid metal, so the process ideally runs in steady state. The critical part of the continuous casting process is initial solidification process at the meniscus where the surface of the final mould produced

base of ingot for steel, oxide film defect, meniscus defect, porosity hydrogen, shrinkage porosity defect, non-invasive slag detection.

2.2 Studies on Casting speed effects

Casting speed effects on various factor in continuous casting like solidification behaviour, mushy region thickness.

2.3 Studies on Mould parameters

In the mould design various parameter affected like a gap between shell and mould, mould slag friction, mould filling, mould thickness etc.

2.4 Studies on Thermal and Heat flow



The included Thermal Stresses and Solidification Behaviour

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Adaptive CSLBP compressed image hashing

Varsha Patil, Tanuja Sarode
Department of Computer Engineering, TSEC, Mumbai University, India

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Received Nov 25, 2018
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Keywords:

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CSLBP
Histogram
Image hashing
L*a*b* color model

ABSTRACT

Hashing is popular technique of image authentication to identify malicious attacks and it also allows appearance changes in an image in controlled way. Image hashing is quality summarization of images. Quality summarization implies extraction and representation of powerful low level features in compact form. Proposed adaptive CSLBP compressed hashing method uses modified CSLBP (Center Symmetric Local Binary Pattern) as a basic method for texture extraction and color weight factor derived from L*a*b* color space. Image hash is generated from image texture. Color weight factors are used adaptively in average and difference forms to enhance discrimination capability of hash. For smooth region, averaging of colours used while for non-smooth region, color differencing is used. Adaptive CSLBP histogram is a compressed form of CSLBP and its quality is improved by adaptive color weight factor. Experimental results are demonstrated with two benchmarks, normalized hamming distance and ROC characteristics. Proposed method successfully differentiate between content change and content persevering modifications for color images.

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Novel Hybrid Security Model in Cryptography

Ujwala Ravale
Dept. of Computer Engineering,
SIES Graduate School of Technology, Navi Mumbai.

Abstract: The use of internet is growing day-by-day. Therefore information security is the major issue today. To keep our data safe over the internet use of cryptography is important. Cryptography makes the data like text, image, audio and video unreadable during transmission and the main goal is to keep data secure from unauthorized access. Cryptography plays a vital role in the network security to achieve confidentiality, authentication, integrity and non-repudiation of information. The proposed hybrid model contains RSA, MD5 and AES algorithm. The proposed technique shows improvement in performance with respect to time.

Keywords: Cryptography, RSA, MD5, AES.

1. Introduction

In this information age information is very important component. Every individual, organization and government agencies want to protect their data. In 21st century greatest innovation is pc and use of internet. We are all dependant on computers for our daily activities. As the capabilities of internet are increasing day by day need of information security increases tremendously. After the human resources, information is an organization's most important asset. All efforts to protect systems and networks attempt to achieve three outcomes: data availability, integrity, and confidentiality. And as we have also seen, no infrastructure security controls are 100% effective. In a layered security model, it is often necessary to implement one final prevention control wrapped around sensitive information.

Cryptography is the science of writing in secret code. More generally, it is about constructing and analyzing protocols that block adversaries; various aspects in information security such as data confidentiality, data integrity, authentication, and non-repudiation are central to modern cryptography. Modern cryptography exists at the intersection of the disciplines of mathematics, computer science, and electrical engineering. Applications of cryptography include ATM cards, computer passwords, and electronic commerce. The development of the *World Wide Web* resulted in broad use of cryptography for e-commerce and business applications. Cryptography is closely related to the disciplines of *cryptology* and *cryptanalysis*. Techniques used for decrypting a message without any knowledge of the encryption details fall into the area of cryptanalysis. Cryptanalysis is "breaking the code." The areas of cryptography and cryptanalysis together are called cryptology. **Encryption** is the process of converting ordinary information called plaintext into unintelligible text called ciphertext. **Decryption** is the reverse moving from the unintelligible cipher text back to plaintext. **Cryptosystem** is the ordered list of elements of finite possible plaintexts, finite possible cipher text, finite possible keys, and the encryption and decryption algorithms which correspond to each key.

1.1 Three primary goals of Network Security are:

1. **Confidentiality:** The first goal of Security is "Confidentiality". The function of "Confidentiality" is in protecting precious business data from unauthorized persons. Confidentiality part of Network Security makes sure that the data is available only to intended and authorized persons. Access to business data should be only for those individuals who are permitted to use that data.

2. **Integrity:** The second goal of Security is "Integrity". Integrity aims at maintaining and assuring the accuracy and consistency of data. The function of Integrity is to make sure that the data is accurate and reliable and is not changed by unauthorized persons. The data received by the recipient must be exactly same as the data sent from the sender, without change in even single bit of data.

3. **Availability:** The third goal of security is "Availability". The function of "Availability" in Network Security is to make sure that the Data, Network Resources or Network Services are continuously available to the legitimate users, whenever they require it.