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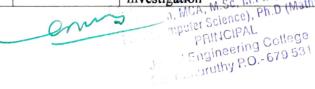
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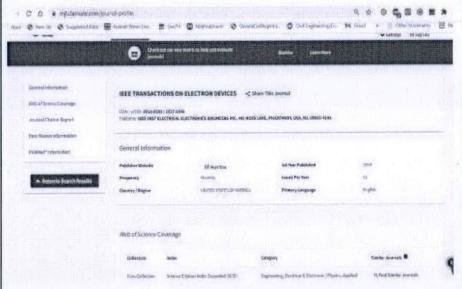
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Impact of AllnN Back-Barrier Over AlGaN/GaN MOS- HEMT With HfO2 Dielectric Using Cubic Spline Interpolation Technique	Prajoon P	ECE	IEEE Transaction on Electron Devices	2019-2020	0018- 9383	Web of Scienc e





Impact of AllnN Back-Barrier Over AlGaN/GaN MOS-HEMT With HfO2 Dielectric Using Cubic Spline Interpolation Technique

V Sanderp, Gerdante Student Menster, IEEE, J. Charles Prayer⁽²⁾, Menber, IEEE, A. Ramesh Babu, and P. Prajoon⁽²⁾, Member, IEEE

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Dr. SUNRY USSEPH KALAYATHANGAL

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Title of paper	e of paper Name of author/s Department				Year of publicati	on ISBN/ISS	Index
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Optical Grating Techniques for MEMS based Spectrometer - A Review	Prajoon P	ECE	IEEE Sensors Council	2019-2020	1558- 1748	Web of Scienc e





Optical Grating Techniques for MEMS based Spectrometer - A Review

Ajth Ravindran, Senior Member, EEE, D Nirmal, Senior Member, IEEE and Prajoin P and Gracia Mirmaia Rani D

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1, INTRODUCTION

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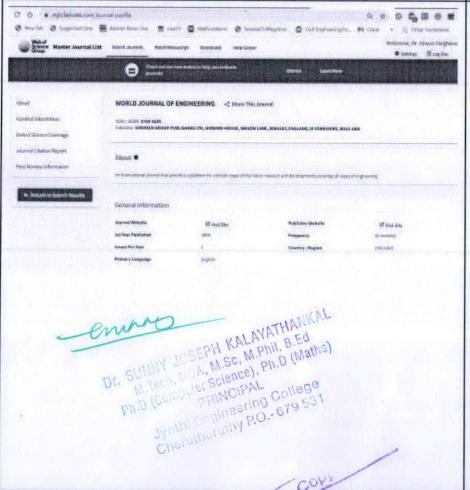
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Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISSN	Index
Investigation on the performance of fiber reinforced concrete subjected to standard fire exposure	Alwyn Varghes e	CE	World Journal of Engineerin g	2019-2020	1708- 5284	Web of Science
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Investigation on the performance of fiber reinforced concrete subjected to standard fire exposure

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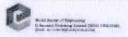
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1. Introduction

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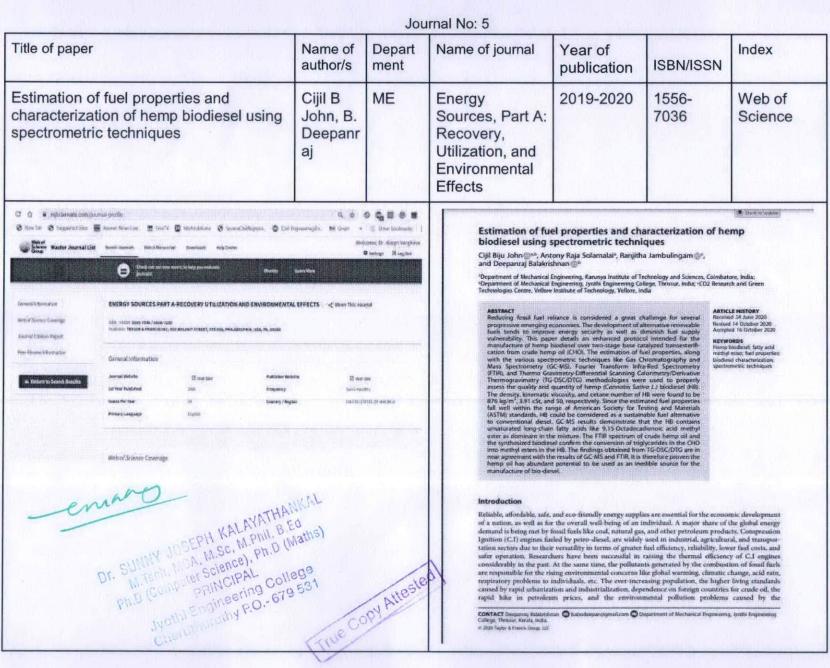


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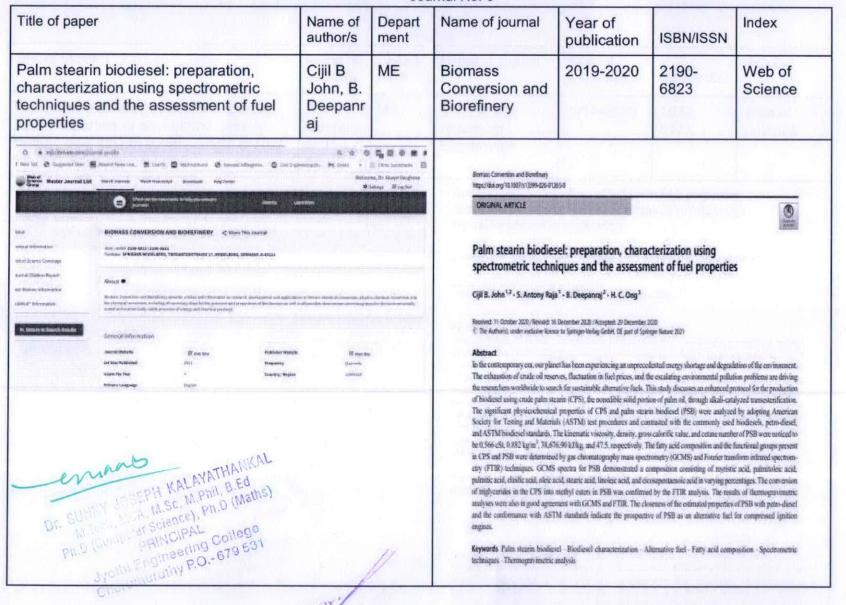
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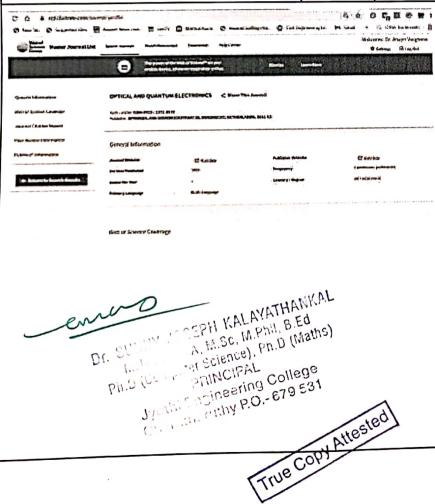


of a nation, as well as for the overall well-being of an individual. A major share of the global energy demand is being met by fossel fuels like coal, natural gas, and other petroleum products. Compression Ignition (C.I) engines fueled by perro-dieses, are widely used in industrial, agricultural, and transportation sectors due to their versatility in terms of greater fuel efficiency, reliability, lower fuel costs, and safer operation. Researchers have been successful in raising the thermal efficiency of C.I engines considerably in the past. At the same time, the pollutants generated by the combustion of fossif fuels are responsible for the rising environmental concerns like global warming, climatic change, acid rain. tempiratory problems to individuals, etc. The ever-increasing population, the higher living standards caused by rapid urbanization and industrialization, dependence on foreign countries for crude oil, the rapid like in petroleum prices, and the environmental pollution problems caused by the

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Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
Growth and investigations of 3rd order NLO properties of novel semi organic tartaric acid lithium sulfate single crystal for photonics application	B. Deepanr aj, P. L. Biju	ME	Optical and Quantum Electronics	2019-2020	1572- 817X	Web of Science



Growth and investigations of 3rd order NLO properties of novel semi organic tartaric acid lithium sulfate single crystal for photonics application

S. Rajeswari - Geetha Palani - B. Deepanraj - P. L. Biju - V. Chithambaram

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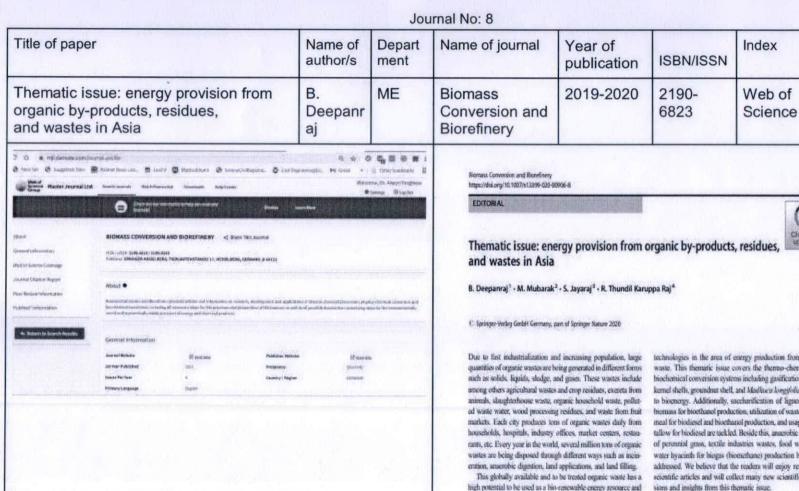
Abstract

Single crystals of tartaric acid lithium sulfate (TALS), a semi-organic nonlinear optical crystal has been successfully grown by slow evaporation solution growth technique. Single crystals were grown in a life span of 3 weeks. The grown crystals were characterized by single crystal X-ray diffraction to identify the lattice parameters. Fourier Transform Infra Red studies confirm the presence of various functional groups present in the crystal, Optical, mechanical, microscopic image and thermal stabilities of the title crystal was carried out to know the properties of the titled compound. Third order non-liner studies have also been studied by Z-scan techniques. Nonlinear absorption and nonlinear refractive index were found out and the third order bulk susceptibility of compound was also estimated. The negative sign in the refractive index indicates the self-defocusing nature of the crystal.

Keywords Semi organic crystal: Optical properties - DSC analysis - Mechanical properties - Z-scan technique

1 Outline

Recently, many young researchers are focusing their interest towards the development of third order semi organic nonlinear optical crystal. Because of its wide application in the field of LASER, photo detectors, computers, optical calculators, signal processing, etc. (Terkia-Derdra et al. 2000; Fuks-Janczarek et al. 2005; Zawadzka et al. 2013). The emerging materials must possess shorter UV cutoff wavelength, large optical trans-



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ergy production from different waste streams in Asia. The above thematic issue consists of state-of-the-art and original research works involving experimental and numerical studies, recent developments, and novel and emerging

to be turned into high-value by-products. This thematic issue

titled "Energy provision from organic by-products, residues and wastes in Asia" within the Biomasi Conversion and Biomlinery

(Journal) highlights recent advances of our understanding on en-

technologies in the area of energy production from organic waste. This thematic issue covers the thermo-chemical and biochemical conversion systems including gasification of pulm kernel shells, groundnut shell, and Madhuca longifolia biomass. to bioenergy. Additionally, saccharification of lignocellulosic biomass for bioethanol production, utilization of waste coconet meal for biodiesel and bioethanol production, and usage of beef tallow for biodiesel are tackled. Beside this, anaerobic digestion of perennial grass, textile industries wastes, food waste, and water hyacinth for biogas (biomethane) production have been addressed. We believe that the readers will enjoy reading the scientific articles and will collect many new scientific impressions and insights from this thematic issue.

Check for updates

Finally, we would like to thank the authors of this thematic issue for their valuable contributions and all the reviewers for their helpful comments and suggestions greatly helping to enhance the quality of the papers.

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Title of pape	er		Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
Diagnosis		ed Automatic Disease Detection	Anoop V	ECE	Neural Processing Letters, Springer	2019-2020	1573- 773X	Web of Science
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9	E (COEST	OSEPH KALAYATHAN CA, M.Sc, M.Phil, B.E. PRINCIPAL PRINCIPAL TEngineering College Uther Uthy P.O 679 50	10	ed	1 Introduction The degeneration of retinal peoblem diagradiabetic population, lar Edemu (DME). Vains more visual los diseases from the management of the management of the management of Joseph Languagement of Joseph Languagement of Joseph Languagement of the management of the manag	age-related muscular, Dial nosis are carried out by usin the main reason for the blin When compared to Prolifera s. For ophthalmologists, the uscular area is an important com; vancop@gmail.com college, Cherutharathy, Thessar, I te of Engiovering and Technology	petic Retinopathy (DR) of g Fluorescein Angeograph diness and low vision is I tive diabetic retinopathy, diagnosis and profiction trask [1]. Hence, progre- centa 679851, India	sic (FA). In the Diabetic Macu- the DME con- of various eye ssive disease is
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Published online: 01 July 2020



³ Iyothi Engineering College, Cheruthursitay, Throssur, Kerala 679551, India

Adi Shankara Institute of Engineering and Tochnology, Kulady, Ermkulans, Keraia 683574, India.

		Jou	rnal No: 10			
Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
CAD Systems for Automatic Detection and Classification of Covid-19 in Nano CT Lung Image by Using Machine Learning Technique	Jarin T	EEE	International Journal of Pharmaceutical Research	2019-2020	0975- 2366	Scopus
Source details International Journal of Pharmaceutical Research Topics Conting page, from 2000 of Pharmaceutical Research	Jarren (1) S Co	H A A A A A A A A A A A A A A A A A A A	CAD Systems for Autom	Article D		ac CT lung brown

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Author: S.U. ASWATHY, T. JARIN, RIA MATHEWS, LAKSHMI M NAIR, M. RROAN

by Using Machine Learning Technique

Abstract: The WHO has declared Human Coronavirus (HCoV) ongoing outbreak to be a global public health emergency. Corona virus (HCoV) was reported two months ago in Wuhan, China. Health care systems over the world get into a chaotic mode due to limited capacity. and a hectic increase of suspected coronavirus cases. The one thing that everybody is trying to do is to reduce the effect of cause created for a patient. This study will show how Machine Learning technique can be used for classifying the infected and healthy lung using the nano scaling imaging technique of computed tomography (CT) lung scans. Preprocessing is used to reduce the effect of intensity variations and for noise removal between CT slices. Then thresholding and other morphological operation is used to separately isolate the background of the CT lung scan. Each dataset that we take undergoes a texture-based feature extraction method in which it uses GLCM along with a wrapper method for optimization. The obtained features are classified using a Deep convolutional neural network, which will classify in several layers. By giving our input of

Keyword: Nano Technique, GLCM, Deep Convolutional Neural Network, COVID-19. Pneumonia.

scan images it will train in an efficient manner and gives us an accuracy of 99%.

DOI: https://doi.org/10.31838/ijpr/2020.12.02.247

Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
Automating the Drug Dosage of Tacrolimus for Liver, Renal Transplant Patients using Neural Network	Aswathy Wilson	CSE	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019-2020	2278- 3075	Scopus



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Automating the Drug Dosage of Tacrolimus for Liver, Renal Transplant Patients using Neural Network

Nijitha Thomas K., Aswathy Wilson

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L INTRODUCTION

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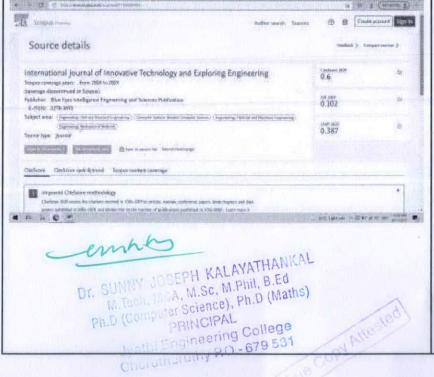
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Fitle of paper Name author	31-6	Name of journal	Year of publication	ISBN/ISSN	Index
Performance Analysis of different Classifiers for Earthquake prediction: PACE" Ninu France		International Journal of Innovative Research in Technology, IJIRT	2019-2020	2278- 3075	Scopus



Performance Analysis of different Classifiers for Earthquake prediction: PACE

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1. INTRODUCTION

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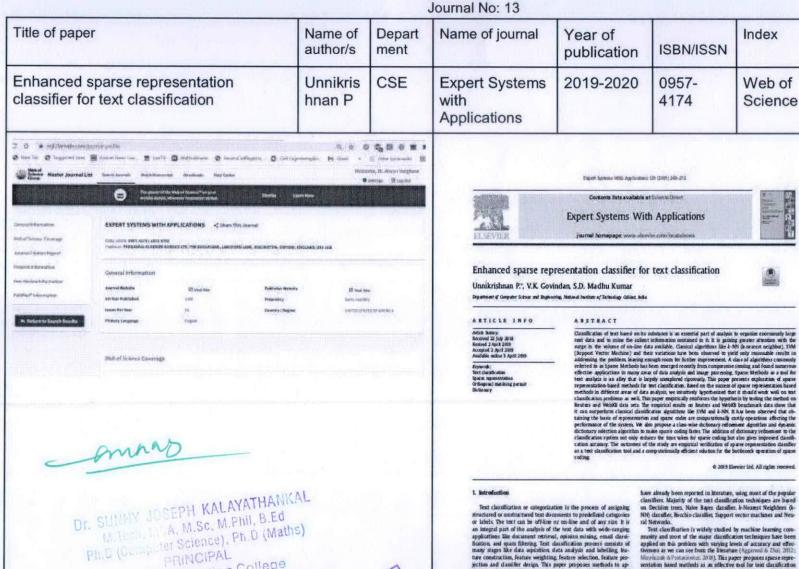
II. LUKHATURK SURVEY

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applications like document entreal, opinion mining, email classification, and opant likering. Text classification process consists of many stages like data opinition data analysis and labelling, leature construction, feature weightling, feature selection, feature projection and classifier design. This paper proposes methods to apply the idea of sparse representation in designing the classifier for text classification. Empirical comparisons of our proposal with classical algorithms like k-NN (k-newest neighbor). Naive Bayes and SVM Support Vector Machine) indicate the potential of sparse methods as a powerful tool for text classification. Namerous works

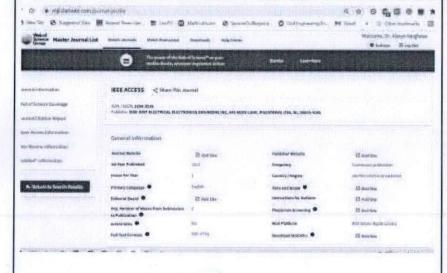
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have already been reported in literature, using most of the popular classifiers. Majority of the text dessification techniques are based on Decision trees, Naive Bayes classifier, k-Nearest Neighbors (k-NN) classifier, Rocchio classifier, Support vector machines and Neu-

Text classification is widely studied by machine learning community and most of the major classification techniques have been applied on this problem with varying levels of accuracy and effectiveness as we can see from the literature (Aggarwal & Zhai, 2012; Miroficzuli & Protesienticz, 20 E1. This paper proposes sparse representation based methods as an effective tool for test classification with results outperforming many of the existing approaches like k-NN (k-nearest neighbor), Naive Bayes and SVM (Support Vector Machine). Sparse representation has already found application in diverse areas of data and signal processing, achieving commendable performance. However, with the exception of a few works such as Sainath or al. (2019) and Shaema, Rhaema, Thernkan dipuer. nid Dillerg (2006), sparse methods are yet to find serious attention in the field of decement dassification.

Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
Segmentation by fractional order darwinian particle swarm optimization based multilevel thresholding and improved lossless prediction based compression algorithm for medical images	Jarin T	EEE	IEEE Access	2019-2020	2169- 3536	Web of Science



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IEEE Access

SPECIAL SECTION ON NEW TRENDS IN BRAIN SIGNAL PROCESSING AND ANALYSIS

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Segmentation by Fractional Order Darwinian Particle Swarm Optimization Based Multilevel Thresholding and Improved Lossless Prediction Based Compression Algorithm for Medical Images

A. AHILAN , GUNASEKARAN MANOGARAN, C. RAIA , SEIFEDINE KADRY , S. N. KUMAR[®], C. AGEES KUMAR[®], T. IARIN[®], SUIATHA KRISHNAMOORTHY[®] PRIYAN MALARVITHI KUMAR[®], GOKULNATH CHANDRA BABU[®], N. SENTHIL MURUGAN, AND PARTHASARATHY

Consequences audion: A. Apillon (Lineareshille) and Long.

ABSTRACT. The image segmentation refers to the extraction of region of interest and it plays a vital cole in ABSTRACT The images segmentation refers to the extraction of region of interest and it plays a vital role in resthual image processing. The work proposes emilitive of thresholding brand on optimizations outhinging for the extraction of regions of interest and extrapression of DEOM anages by an improved production hosters significant refer extraction of regions of wineses and extrapression of DEOM anages by an improved production hosters significant reprincipation. The role of compression algorithm to referenciation of the corrections of thresholding, confidenced thresholding preference plays on efficient state in range associate, in the paper, the Particle Source Optimization (PSO). Insertional Particle Source Optimization (PSO), in all Fractional Order Lines make threshold record that the POLIPSE-based statistical devel thresholding generate superior results. The intuitional overflower is POLIPSE-based statistical devel thresholding generate superior results. The fractional overflower is POLIPSE-based statistical results are proposed in the PEOLIPSE department with its consumptions rate. The classification and blenching position-based baseds comprehence to all productions generate superior results. The when compared with the PEOLIPSE based statistical department of the particle of the par redicates the preficiency of the proposed segmentation approach. The performance of the compression algorithms one collected by metric and vise front to be appropriate for data consider as telemodecies. The depositions we describe our limited and behavior of 2000 CT complex.

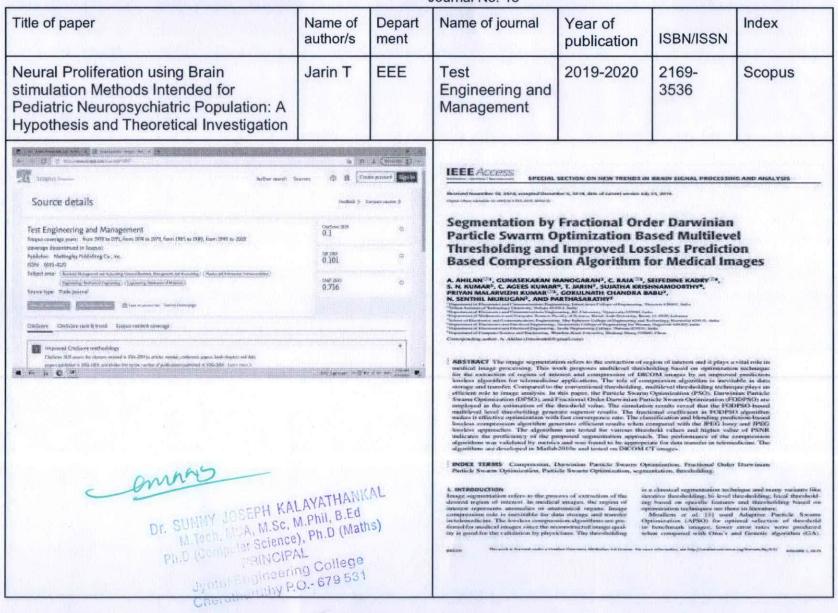
INDEX TERMS Croopersons, Darwinson Particle Swarm Optimization, Fractional Outer Darwinson Particle Swarm Optimization, Particle Swa

I. INTRODUCTION

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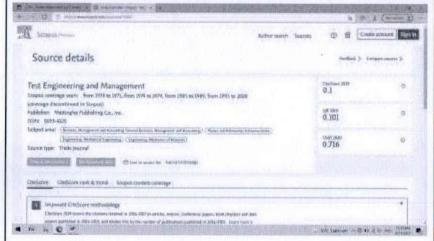
servative internationary, in even investigating teach representa-ing listed on specific features and distributing based on application techniques are there to discontine. Mostlere or all [4] would disappine Particle Swares Optimization (APSO) for optimal selection of tenderic an investigation company, forest error ratios were presented, when economic with Orie's and Generic algorithm (GA).



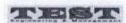


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Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
Intelligent Parking Management System using Dijkstra's Algorithm with Driver Preferences	Jarin T	EEE	Test Engineering and Management	2019-2020	2169- 3536	Scopus



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Innuery - Feb mary 2020 158N: 010 3 - 4720 Page No. 9786 - 9794

Intelligent Parking Management System using Dijkstra's Algorithm with Driver Preferences

Summi Mani*, Department of Computer Science, Rajugus School of Engineering & Technology, Kochi. Email: suminimumi v@gmail.com

Fairon Mulerlikkal, Department of Computer Science, Fyothi Engineering College, The year Email: jaiscean paol (6 jeur ac an

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Latin T. Department of Electrical & Electricities Engineering, Jyothi Engineering College, Thus say Email: jarimth jecque lin

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Abstract. Cless Plack is in department options whose view one continuously assuming and learning the probing areas. The seem of time work in the density or algorithms that energies is probing also taken to the decision of accessing one problem, and to the decision of accessing one problem in a result instance. Can Pack, effects, the decision's problem mans are consistent while chancing in death to peak instance, the first problem is the conduction of the chance of a death of the peak instance, accession and the second of the decision of the decision of the between the accession and the decision of the conditional decision. The decision of the dec dest measurement are unapy CEPCS. The promotion of deep logic are being applied has for larger for after to make a theorem on which this in classical by assigning facilities.

Article History Article Branised: 18 May 2019 Hertred: 14 July 2019 Accepted: 22 December 2019 Publication: 00 February 2020

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L. Introduction

The common method of finding a parking space in a mail/building Car Park is to find a manually which is time consuming and may lead to the weest gase scenario of not finding a stor, especially if the driver is driving as high wallicconditions. The alternative is to choose a medefined parking space with high capacity. However, this is not an optimal solution as the car park could usually be far away from the user destination. The main motivation behind this study is the fact that new much research has been

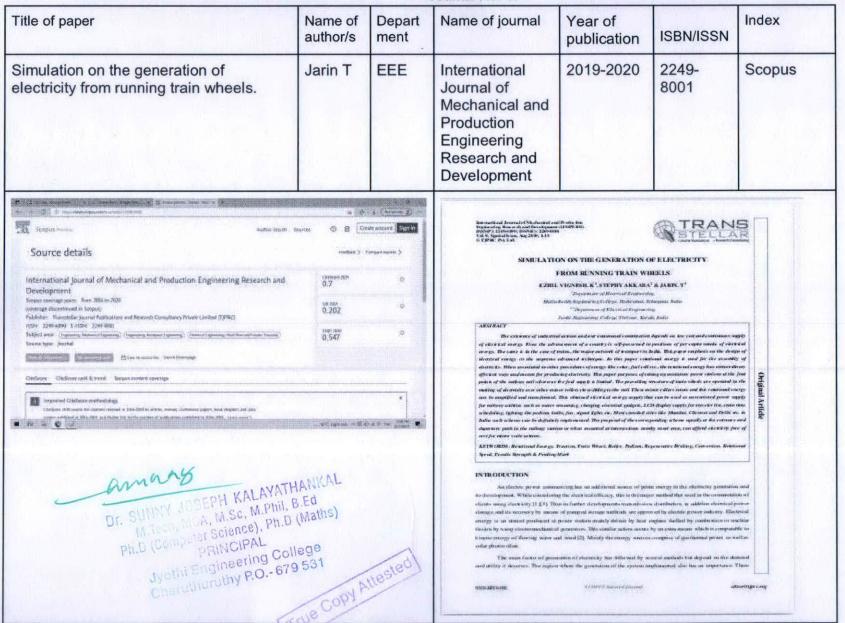
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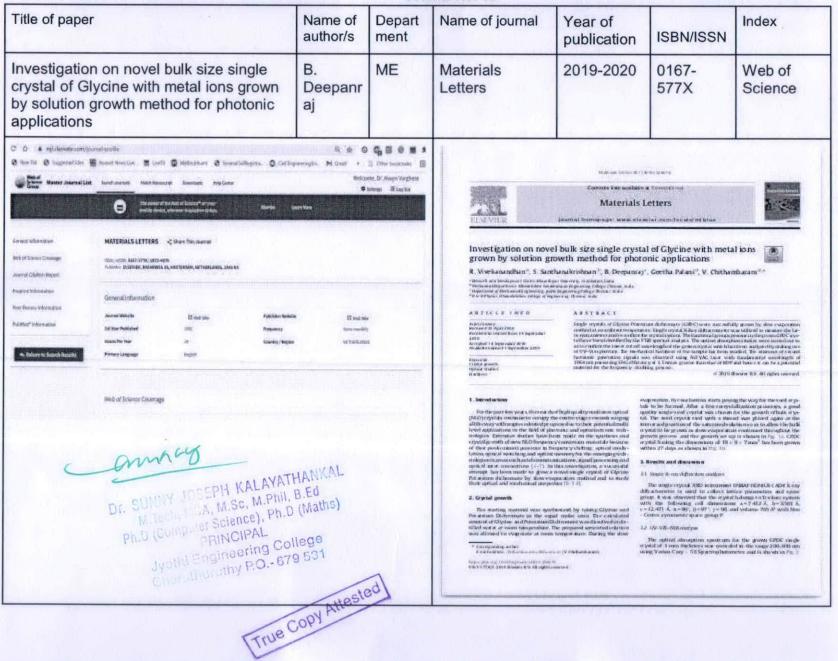
done in the area of amorganing the selection of a parking slot based on the driver's preferences.

"Recently, research has used vehicle to vehicle and vehicle-to-infrastructure interaction with the support of various winders network technologies such as Radio Francesv Hemification (RPID). ZigBee. Wireless Mesh Networks and the internet"[4]. This week initially targeted to conduct a study of providing intestrution about mostly parking spaces for the driver and make a teremention prior to his/her arrival to the our pack uning supported devices such as Smartphones or Tablet PC's. Later the work has been extended to choose a convenient parking slot in a car park

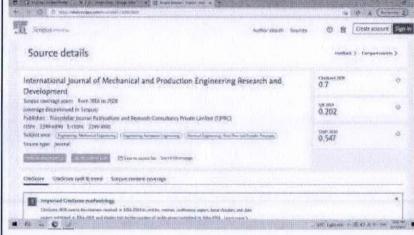
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Title of paper	Name of author/s	Depa rtmen t	Name of journal	Year of publicati on	ISBN/IS SN	Index
An Optimization Of Drilling Process Parameters In Machining Epoxy Based Carbon Fibre Composites	B. Deepanraj, Nice Menachery, O.P. Sukesh	ME	International Journal of Mechanical and Production Engineering Research and Development	2019- 2020	2249- 8001	Scopus



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AN OPTIMIZATION OF DRILLING PROCESS PARAMETERS IN MACHINING EPONY BASED CARBON FIBRE COMPOSITES

SHENMEGESH K', LAKSHMEKANTH G', DEFPANKAJ B', SEKESHO, P' & NICE MENACHERY'

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ARSTRACT

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KESWORDS: Cartin Filter Rainformed Folgour (CFRE) & Gray Reinford Amelyan (GRA)

INTRODUCTION

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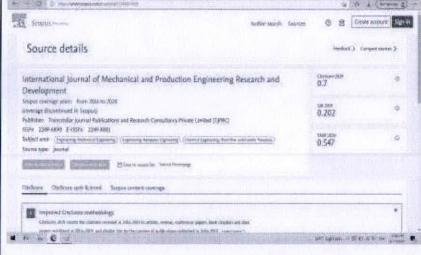
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Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
An Experimental Analysis And Optimization Of Heat Treatment Parameters Of Al6061 Alloy For Improved Mechanical Properties	B. Deepanr aj	ME	International Journal of Mechanical and Production Engineering Research and Development	2019-2020	2249- 8001	Scopus
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V. MONE'A', G. LAKSBMIKANTIP, S. LATBICASHREE', N. SENTBILKIMAR'

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INTRODUCTION

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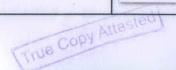
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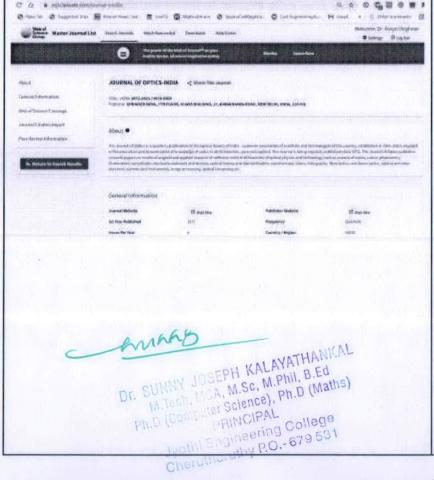
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Growth and investigation of novel nonlinear optical single crystal of urea potassium dichromate by solution growth technique for photonic application	B. Deepanr aj	ME	Journal of Optics-India	2019-2020	0974- 6900	Web of Science



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Investigation on single crystal by tartaric acid-barium chloride: growth and characterization of novel NLO materials

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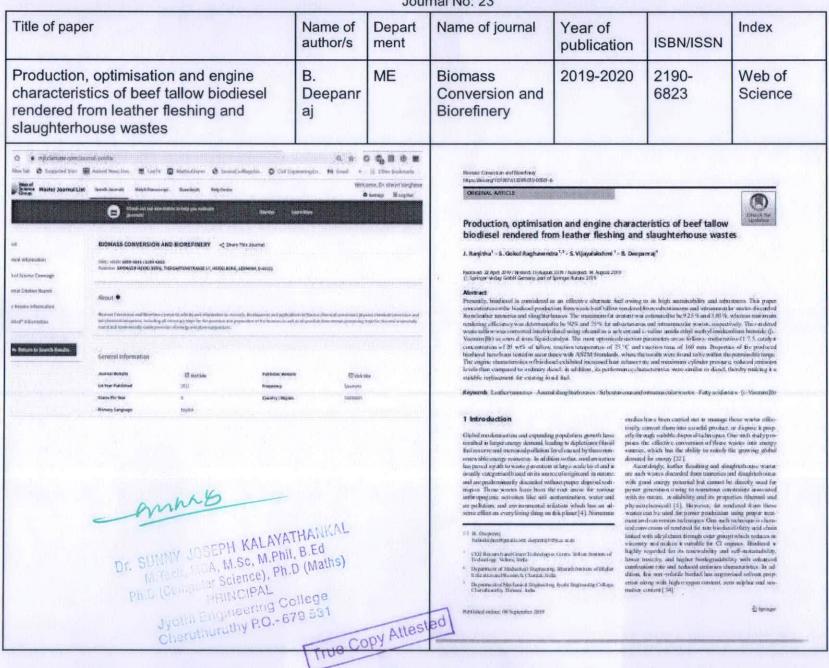
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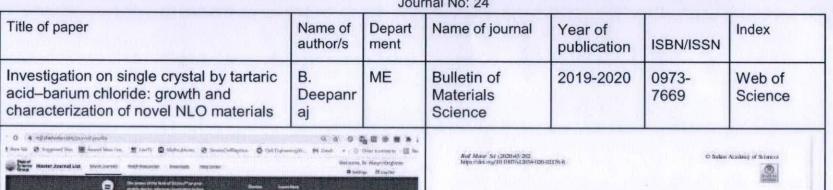
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M. Tesh, M.O.A., M.Sc., M.Phil, B.Ed Ph.D (Computer Science), Ph.D (Maths) Jyein Engineering College Charachurathy P.O.- 679 531 True Copy Attested

Investigation on single crystal by tartaric acid-barium chloride: growth and characterization of novel NLO materials

S SHANMUGAN O, N SARAVANAN V CHITHEAMBARAMAN, B BEEPANRAJ and GEETHA PALAN

Research Course for Solar Energy, Department of Flagsies, Korens Lakelawick Education Foundation, Georg Pields. Vaddovennie 52290, India

Physics Department, Addiparentifs College of Edgeworks, Robert CCSW, Sales

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*Department of Mechanical Engineering, Systic Engineering College, Threese 679531, Suda

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L. Introduction

Third-order new fewer optical mean side have weak applications like optical communication, wrising signed processing data skirtigen optical legic gates, laver radiators protection and THE score generation [1-5]. In recent years in broad newstogation was partierral to develop the nonlinear optical matemale with high extensive appropriates in plantons; seeloperated to the Versita studies dealing with region. increases and semisepara: any male for mentance optics have been reported. Secretary of the continuous of the detection before an treparation and in and malaparation trades by his factories contains of the security and have been expensed. The sequence materials pronow pera mechanical, thurstal proportion with high mediance optical configures. The development of bulk yangle is you're very length for dericard detectors. As marginal movemed has subrecided: Energial septical seatings in around properties of reduce remitteeness owing to the altience of electron-recognization [6-10] Newadoys, issued has been made to grew the sumaregratic crystols with less delinquency, high barrabanings threshold, exceptional machines as and frequent properties, low sugation constitute, water optical transparency, which makes

the expressed comfortable for device fiducations [11-13]. Calciera et al [14] strebodarentinos optical materials of N.A. distances because (NPOPB) and 4 depot N.A. defenses binzonde (FNNDFS). The NNDFB and FNNDFS rejords studeshiving UV-vesters IR spectra showed results of 100% in the windle uses. It is throughly sidelings to 48 hand 503 K. Second-humanic government (SHG) productivity was color-Intentity to Korty-Persyperadormethed whethin 1 55 and 1.7 torsec in that of personners dilrydrog on planettate. Probab or-then et al. (15) have analyzed N-multiple 4 pitestermentation. Nomethell N (4 minophany) bencomike. 4 diago Novelty-N (4-minophony laboratorials and 4-mediany Nonoting Netnanighampi is consumate simple crystale thereigh that show evaporation scholion programs. In these crystal synchrothermal analysis was 570 K and the officiency of 5HG was 2.25 tierars higher from the personnen distributions phosphote. (Kibb) caystol.

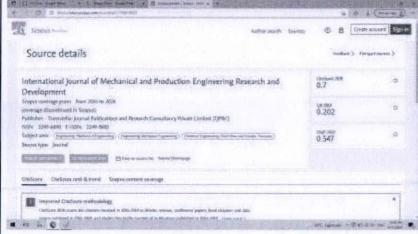
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Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
The Low Cost Adult Diaper Waste Management Method	Nice Menach ery	ME	International Journal of Mechanical and Production Engineering Research and Development	2019-2020	2249- 8001	Scopus



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M.Tech. McA. M.Sc, M.Phil, B.Ed
Phi.D (Computer Science), Ph.D (Maths)
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International Journal of Sectionical and Production Engineering Research and Development (LIMPERD) 1880(P): 2249-4890; 2880(E): 2249-4891 Vol. 9, Special Issue, Aug 2015, 105-110 © TJPRC Pox. Lut.



THE LOW COST ADULT DIAPER WASTE MANAGEMENT METHOD

NICE MENACHERY, SREERAG V NAMBIAR, SANGEETH S, VISHNU THILAK A, NIGIL SEBASTIAN & SHABIN K JOBY

Department of Mechanical Engineering, Jyotti Engineering College, Thrissar Kirala, India

ABSTRACT

The exercent allumina of waste disposals constantly embraces a potential danger in embrament degradation. Due to divergent of authorized, fast filling handfills is becoming a triablemaker. Disport is creating a telp involvement towards solid sustess without making an allowance for instituquate londfill space. The government is taking keen interes in building up proper autholius facilities which extensibly intend for a hygienic environment but damped disport still remain a mensace. Traditional method of disport disposal is unhygienic. In urban areas, most of them are scaled in a plantic bug and answel as landfills, while in rural areas, the major prospect is to burn them. This paper perspores an economic and sanifered way of adult disport disposal, this can be an axist to many houses, hospitals, old age homes, charite trusts of:

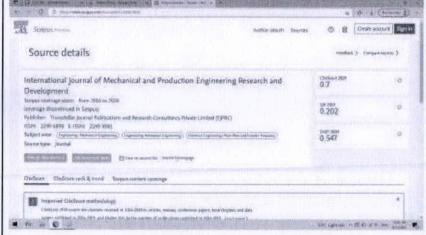
KEYWORDS: Adult Diaper, Solid Wastes, Disposal, Hygirnic & Diaper Waste Management

INTRODUCTION

In this 21° century one of the major issues we are facing is the disposal of sanitary wostes. As we all know that this is due to the plastics which are employed in disposable sanitary napkins are non-bindegradable and leads to environment and health threats. The recent study states that a single woman uses nearly 100 kilograms of non-bindegradable waste during her menstrual years. A parelyzed preson nearly uses six to seven adult dispers per day, this results usage of approximately two hundred adult dispers per month. The Ille cycle of a single adult dispers is 450 to 500 years. This crutex is more conspicuous because of the way in which how municipal solid waste is managed and their collection, disposal and transportation network. Moreover, the main problem at sanitary waste has ever been their catagorization, i.e., whether it is a bit-medical or plastic waste. Dispers, soiled napkins, tampons, couloms, and blood-soaked curron are being disposed of after separation into non-bindegradable and bindegradable segments. Rowever, the Boo-Medical Waste Management Rules, 2018 show that objects tained with body fluids and blood, including coron, soiled plaster cases, detexings, lines and bridding, are bio-medical waste and must be incinerated, mirro-waved or amorbored to remove gathogens. The need of interest for sanitary weater management in our nation is shown in the evidence that there is no credible statistics on the problem. Due to the need of separation of waste, there is little documentation in this section, so through guidance for treatment and management of sanitary bears.

Original Artic

Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
An Optimisation Of Surface Area And Heat Transfer Study Of Rectangular Porous Structure	Nisha Sherief	ME	International Journal of Mechanical and Production Engineering Research and Development	2019-2020	2249- 8001	Scopus



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Dr. SUNNY JOSEPH KALAYATHANKAL M.Tech, M.O., M.Sc, M.Phil, B.Ed Ph.D. (Computer Science), Ph.D. (Maths) PRINCIPAL Joseph Confineering Collège

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International Journal of Mechanical and Production Engineering Research and Development (UMPERD) 1885/PJ: 2248–6892 (1886/E): 2249–8891 Vo. T.PRC Pvt. Ltd. 6: T.PRC Pvt. Ltd.



AN OPTIMISATION OF SURFACE AREA AND HEAT TRANSFER STUDY OF

RECTANGULAR POROUS STRUCTURE

NISHASHERIEF, SAINTSON, P. A, RICHARD JACOB, E, SANJAI BABU, S.A. MANISH, P.

Department of Mechanical Engineering, Joshi Engineering Callege, Cherotherutty, Thriston, India

ABSTRACT

Host transfer can be maximized by increasing the surface area which is exposed to convection. Structures which have high surface area compared with solume are called pursues structures. In order to increase the surface area of a pursue structure to maximum, the filter width of the structure can be varied, the can maximize the surface area by surying fiber width for the given parasite, increasing the paroxity below a particular joint increases the surface area after the final increasing poroxity decreases the heat transfer by decreasing the conductional heat transfer. For the study a cube shaped unit cell model of radial's cube is chosen.

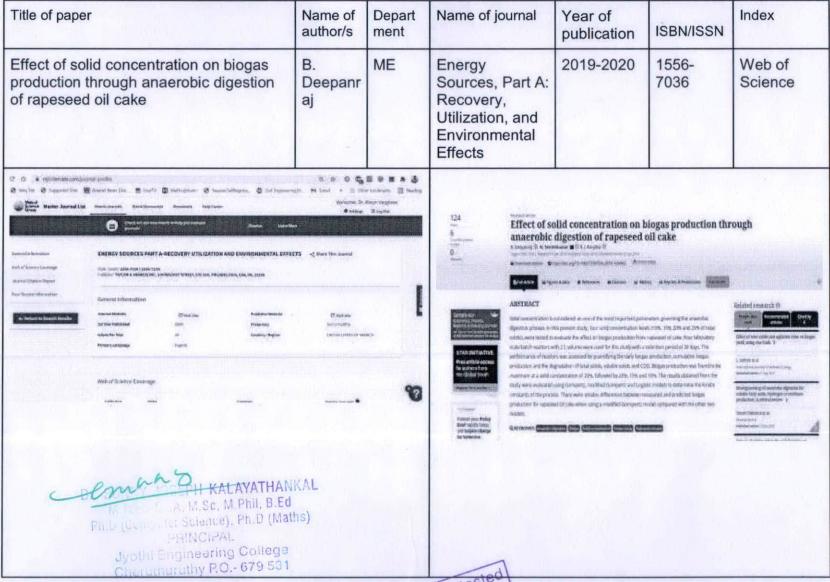
KEYWORDS: Heat Transfer, Surface Arra, Cube & Porous

INTRODUCTION

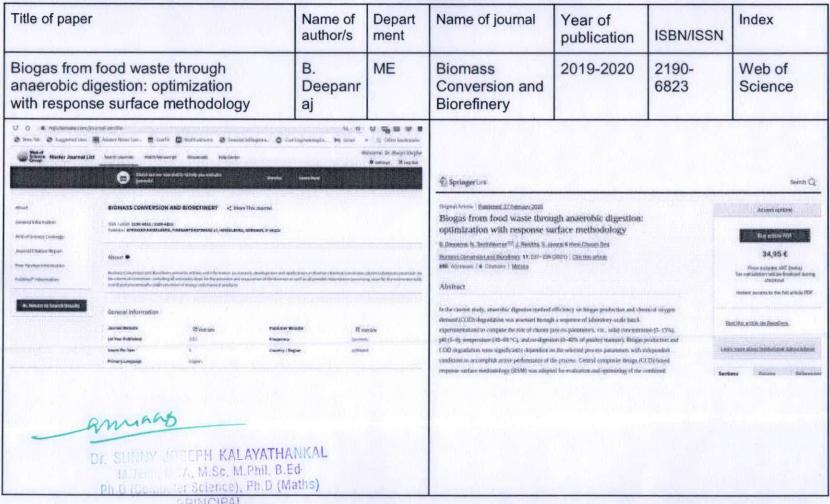
In order to improve the durability of an electronic equipment, heat removal can be used as an effective tool. The heat removal rate depends on the area of surface that is exposed to the convention. Depending upon the purpose different size structures is used for increasing the heat transfer rate. According to have of convention, the beat transfer rate can be increased using porous body in thermal system. The usage of porous body will also help reduce weight and space requirement. Porosity can be defined as the measure of the void spaces in a material. In is a ratio of the volume of voids no the total volume. The porosity is expressed between 0 and 1, or as a percentage between 0% and 100%. Manerials that contain pores are called a porous material. Matrix is the skeletal paction and the pores are usually occupied by a finid. By using concept of porous media we can analyze structures like foams, although the skeletal material is normally a solid. This work presents a fresh sechnique that binous the best transfer from the nurface by using fins with porosity. The thermal performance of time with purosity is assessed and paralleled with that of normal solid fins. If we use purous fins in the place of normal fins it will increase the performance of the equal sized normal solid fin and, it will save fin material. The operating parameters, thermal performance of the examples of these parameters (locewising the Ra number. Da number, and thermal confluctivity ratio are the examples of these parameters, locewising the Ra number improves the performance of porosity.

Original Article

Journal No: 28



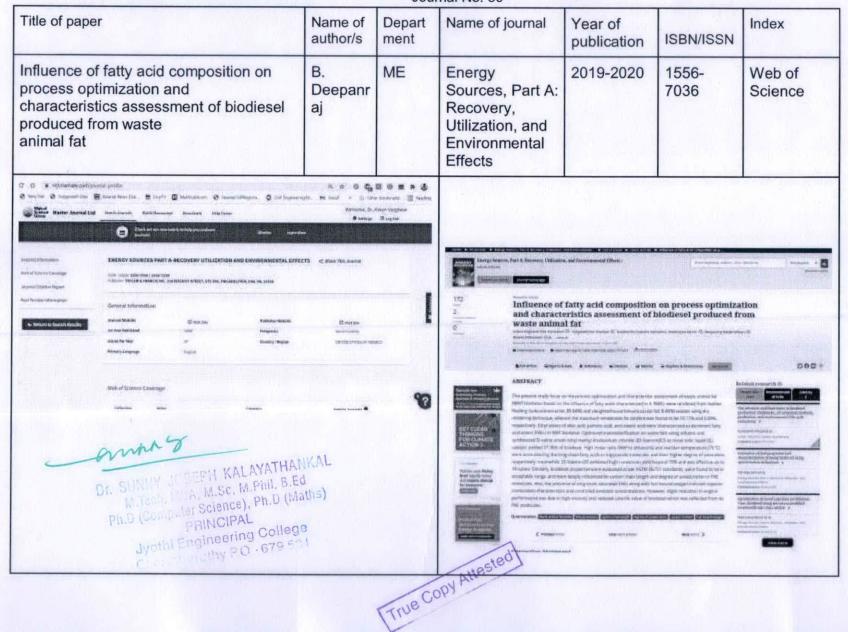
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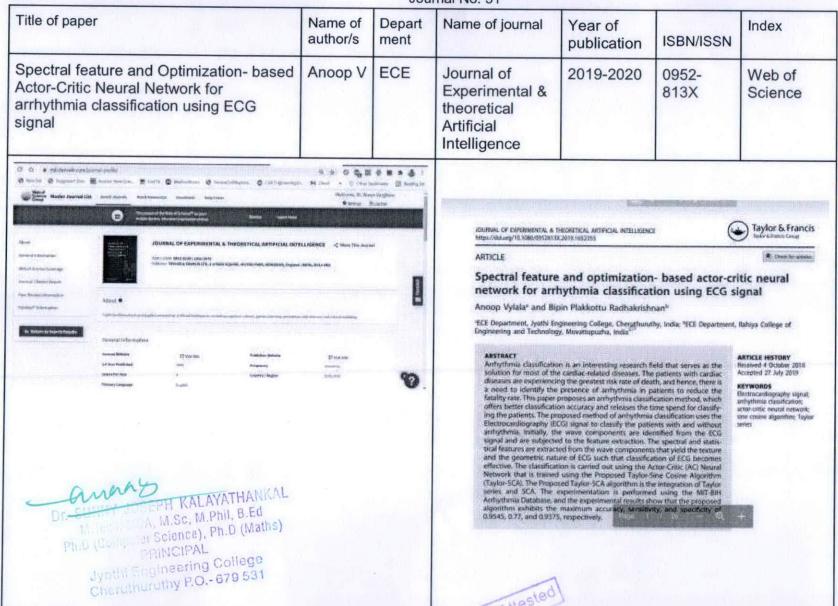


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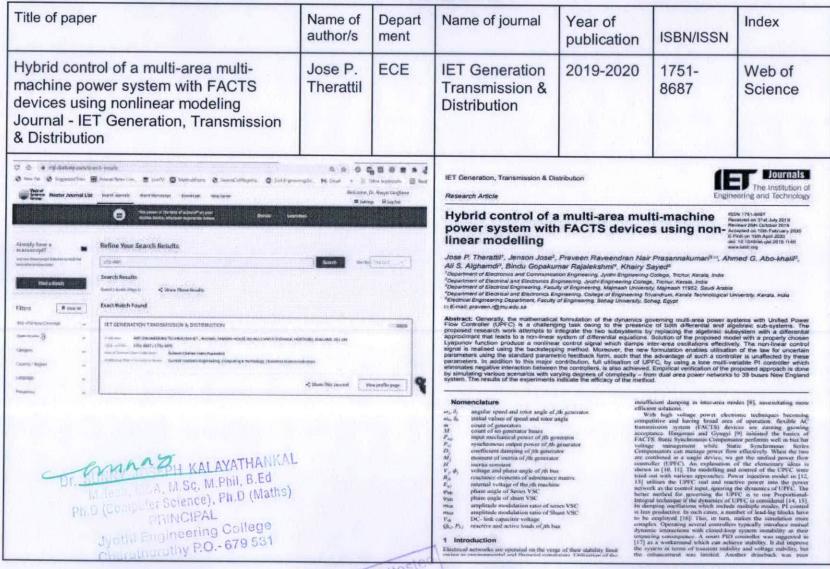
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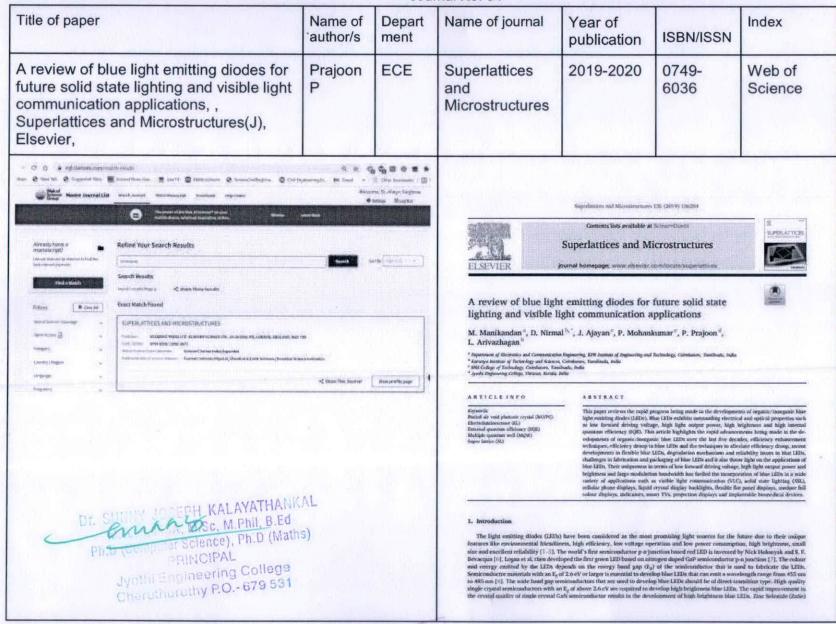


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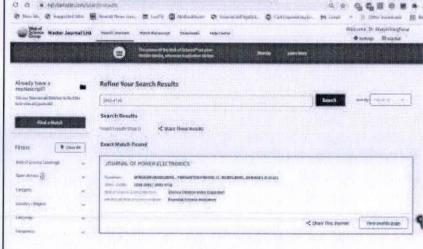
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Journal No: 34



Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
Design and Implementation of Instantaneous Power Estimation Algorithm for Unified Power Conditioner	Sindhu S	ECE	Journal of Power Electronics	2019-2020	2093- 4718	Web of Science



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Design and Implementation of Instantaneous Power Estimation Algorithm for Unified Power Conditioner

Sindhu S. J. Sindhu M. R. and T. N. P. Nambiar

1 Department of Electrical and Electronics Engineering, Amrita School of Engineering, Amrita Vishwa Vidyopeetham, Combatore, India

Abstract

This paper discusses a simple control approach for a Unified Power Conditioner (UPC) system to achieve power quality compensation at the point of common coupling in distribution systems. The proposed Instantaneous Power Listingation Algorithm (IPEA) for shart and series active power filters uses a simple mathematical concept that reduces the complexity in the design of the controller. The performance of a UPC is verified with a system subjected to voltage distortions, sags/swells and unbalanced loads using MATLAB/SIMULINK. The simulation study shows that a UPC with the proposed control algorithm can effectively compensate for voltage and current humanics, unbulince and teactive power. The course algorithm is experimentally implemented using dSPACE DS1104 and in effectiveness has been varified.

Key words: Harmonics, Point of common coupling, Power conditioner, Fower quality, Series active power filter, Shunt active

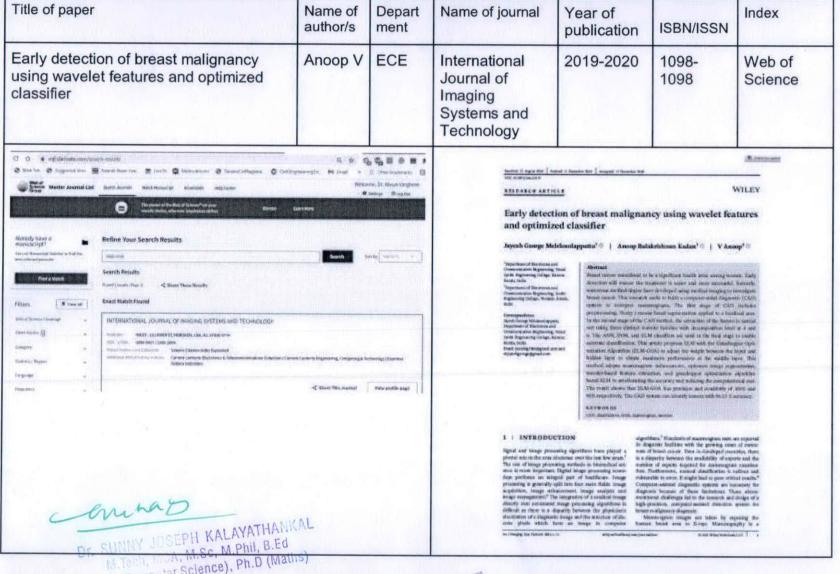
I. INTRODUCTION

Recently, there has been a surge in the current and voltage based power quality problems due to the wide use of power. electronic controllers and sensitive equipment in the commercial and industrial areas. The alarming rate of growth in controller using power electronic devices in such industries has moulted in power quality disturbances in distribution networks. High precision process industries and critical loads such as computers, inicroprocessors and medical equipment require ats uninterrupted and regulated power supply of a rated magnitude and frequency. Power quality problems have an adverse effect on industries in terms of equipment failure, data loss, commercial loss and so on [1]. Therefore, standards such as IEEE 519-1992, 2014 have been developed to keep power quality within acceptable limits [2]. A number of

Manuscript received Ist. 13, 2018, accepted Feb. 22, 2019. Day commended for publication by Associate Editor Sects by Alin

mitigation techniques have evolved over time to meet these

These mitigation techniques include possive filters, active filters, hybrid filters and custom power devices [3], [4]. Traditional passive filters using passive components provide only fixed compensation [5]. Active power filters [6]-[8] provide compensation for harmonies and introduce reactive components into systems so that power at a unity power factor can be drawn from the grid. Hybrid power filters [9] are a combination of more than one active filter or passive filter to solve the problems of reactive power and harmonics. Active power filters and hybrid power filters are capable of suppressing either voltage or current related power quality issues. The custom power park [10] concept was developed to provide high quality power to customers with critical loads that cannot tolerate variations in power quality levels. Custom power pack with compensating customs power devices such as DVRs, static sheat compensation and unified power quality conditioners overcome power quality disturbances such as



M.Tech, MoA, M.Sc, M.Phil, B.Ed Ph.D (Computer Science), Ph.D (Maths) PRINCIPAL Jyothi Engineering College Charathuruthy P.O.-679 531



Title of paper	Name of author/s	Depart ment	Name of journal	Year of publication	ISBN/ISSN	Index
Effect of Geometry on Driver Heart Rate	Jisha Akkara	CE	Transportation Research Procedia	2019-2020	2352- 1465	Scopus
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Clariform (20 percent from 5 f	We take as 10 e	•	performance of a driver va- highwas cover geometry, drivers were collected dur- saver, definition and, as the longer of percoding tax and obsolidate worth with a G 2010 Tax Authors Publis This via on open across self- frace relies under require	incorporation most of the body organs in in a harmony with neutral or morthed and miss. The objective of this pages is in model the enday was done on 174 factionals care, in the enday was done on 174 factionals care providentation, width of study introduce. On pages to the care was also considered. Find engin boar rate. A neutralise magnesian usin that the faction is the CN-D Science (lay, 15 tracked the CC-BY-SC-ND Science (lay, bully of the scientific consustance of the Wes- ter and highest, amount, driver weekled.	On heart rate kneeting of drivers in respons of two town treat highways of Keed one sectional femals of curve file radius due and available sight distance were kneed of the study revealed the correlated of was proposed based on analysis.	sense to variance in a Hear rains of 30 of curve, length of nomural. Similarly on of sight distance
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Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Feasibility Study of Provision for Exclusive Bus Lanes on Urban Roads	Vincy Verghese	CE	International Journal of Engineering and Advanced Technology (IJEAT)	2018-2019	2249- 8958	Scopus

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International Journal of Engineering and Advanced Technology (LIEAT) ISSN: 2249-8998, Volume 8, Issue- 2C, December 2018

Feasibility Study of Provision for Exclusive Bus Lanes on Urban Roads

Arathi A R. VincyVerghese

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L. Dimensions

Transportation come of safe and efficient movement of goods and passengers. Famir mobility of goods and passengers in the catalyst for occurate general of a country and this in licelitated by cillicizet transportation system. In case of road temperature systems, as facility increases, the volume of milliculos servences due to increasing decimal for transport, particularly or developing countries fixe lastic flecture of the speec, financial and material constraints orbins road attrastructure country be developed beyond a final and this lends to our raise in congestion, pollution and reduction in read safety. Home, there is a need for an appropriate strategy for optimal use of road transport system to reduce compension and to excress efficiency of road networks. One way to tedace congestion is by encouraging the travellers to use public transport system (Bases) instead of private transport modes, because public manageri system enables were brown of paragraphy in fewer reflection. To bring about a shall as the passenger preferences, the public transport system about the highly afficient and relatively less expansion to attend the travellers from private modes of transport. This good can be attached by travestraging public transport modes like fusies by accigating priently. One of the synthesis of analysing priently to policie trained are by providing enchance but larges.) Exchanges has larges are the larges reproceed only fire busing

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provided in order to speed up the buses, to reduce the interpretate between bases and other medica of vehicles and thereby reducing the road crawhen.

B. OMICTIVES

By considering the size of the study, the man objection any consistency the sun of the design, the many objective formulated is to study the general impact of procession of exclusive two lease on Taffic flow characteristics to der interogeneous maffic conditions. To achieve, this mans objective the achieves from the conditioning in the following: I. To develop sixed citeria based on the properties of

- transillers using delilerant modes.

 2. To develop economic anteria based on the names value of time of travellers using the different seedus.

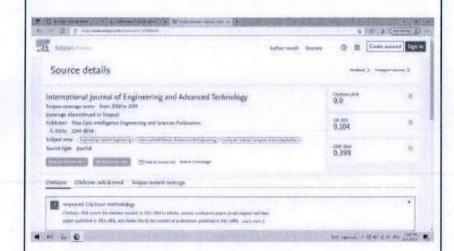
III. LITERATURE REVIEW

Access and Veilages [1] estimated the probable shift of use users to his due to the increase in first of service (LUS) whee providing exchange that more so heliant cry reads carrying accompanion utility. The secretar in LUS was determined soing a morally developed quantation model. A mode choice soing a susually developed (annihilation model). A model-chaired probabilities are to depting the possible model this did out uses to have the possible model this did out uses to have true developed. From the trues, the policiolistic of this of our modes to have two triminated 0.7 at multic three extraoporating to level of service; C. for on 1.1 or walter mode 0.28 for 1.5 m which model Acrossom and Vadagini [2] developed and used a interesgeneous mellion for the contract of the contract o upped of other extractors of motor whiches due to the consequent reflection in road space, over a wide camps of staffs volume. It has been found that the maximum participable volume to capacity ratio that will emuge a LOS C was 6.42 for the traffic strugm other than boses if the bias lane as provided. Institution of proximg exclusive has late has the provided hastification of proximg exclusive has late has the best defined in the basis of number of receives per un-width of the cond. Ceross [3] Averlaged working paper on the Rapid Transl (IRT). An efficient and competitive mod-phile transport. This report reviews experiences with designing and implementing (RY) systems worklook. IRT designing and suppressed (REI systems worksyste-0REI is feet defined sowns a spectrum of service quadries and easts. The separat choice with discussions on REIT's likely future givint global growth proportions and other personal policy appeals as the foresteed name. Once or as [42] curried out a study to examine the officer of exclusive has

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Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Environmental Impact Assessment of Thrissur- Vadanapally Road Project	Vincy Verghese	CE	International Journal of Engineering and Advanced Technology (IJEAT)	2018-2019	2249-8958	scopus



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International Journal of Engineering and Advanced Technology (EJEAT) 1558: 2249-8958, Volume-S. Issue- &C., December 2018

Environmental Impact Assessment of Thrissur-Vadanapally Road Project

Rosmy Sebastian, Vincy Verghese, Cyriac M. G.

. Overact-Environmental Impact assessment (EE4) for execuentation projects has an integral role in confinements nanopract where it is not vote and other numperative influenceurs development programs creates significant inpact on various separts of life. Impacts can be positive or negative. Here an EFA is conducted to study the tocio-economic imperes and his-physical departs of relating of Thereuse - Palampadly road project and orollation of the same.
The impact production is done by mount of youl fit works for the existing conditions. Gaussian air dispersion model, CRTN Model for traffic maint, Main Solimor and Streeter-Phojon Equation for scalar quality assistate store used. With the help of these models, the prediction is done accurately. The predicted impact includes the minimizing and eliminic impacts, with quality, major quality, of quality and social impairs. Water quality charges rises only when there is change in draining pottern nectors. There change is modelled using the Streeter Photos equation and the must believe equations. As quality modelling was done using the Generaless abspectives model and the largest of traffic notice were home using the CRIN Models. They air and noise reduce at the present condition was present than the prescribed names of pollection control hound. The six quality issues are predominent at distances mover to the source, as the distance becomes the effect of sir pollular also decreases. Various mitigation memory are suggested for reducing the impacts predicted or to assist the impact in pack range of construction.

Substitution Environmental Impact continues, Impact modelling, Impact production, miligation measures.

I. INTRODUCTION

marsher of steps which are as follows: [7]

- · Discription of project
- * Screening
- · Scoping consideration of alternatives
- · Beseline studies public consultation and
- perfectpation · Impact production
- Preparation of Environmental Impact Stationicron(ERS)
- · Decree making
- · For decision making and monitoring

The ease objective of the study is identified as to profict and evaluate impacts of a road project.

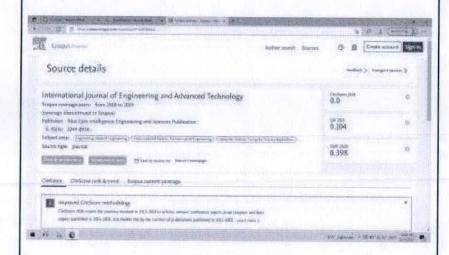
To achieve the main objective of predicting and evaluating the separate of a mad project involves historing submoke-

- · Inquir production using good th models
- Suggesting indigation measures for impacts. produced

IL LITERATURE REVIEW

Eavisimental input associated (EEA) is a planning tool. for producing the suspects on the entirement from effecting or building a new establishment. For the paperson of EEA, the meaning of anvenment incorporates physical, bedopsed, collised, economic and social factors. Over the bot three decades, environmental impact assessment (ELA) or Recent encironmental issues that has developed due to geometronif assessment (EA) has become a major tool for

Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Use of Data Mining Technique for Systematic Road Safety Audit of Non-urban Highways	Dr.Anitha Jacob	CE	International Journal of Engineering and Advanced Technology (IJEAT)	2018-2019	2249-8958	scopus



International Journal of Engineering and Advanced Technology (LEEAT)
ISSN: 2249-8958, Volume 8, Issue: 4C, December 2018

Use of Data Mining Technique for Systematic Road Safety Audit of Non-urban Highways

Biney H.J. Anitha Jacob

Abstract— In Italia the number of road consists in rating at physicistic constitution of the state of the constitution of the state of the constitution of the state of the constitution o

being Terms - Date mining, Welso, Enad Safety deals, Enad safety would

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Rand Sultry Audie (RSAA) is reartised of evaluating the subsyperformance of a trade by no independent more no realized operations. Qualitative notifications on potential conductions, control and production of experiments for improvements and reason substy for all could more are the basic objectives of RSA. Concentrated interpretate (RSAs into the mind stage of the project sould an imministrate of new roads and interactions. Therefore it for now and reconstituted much task by made safe also provides State (RSAs in done based and task by made safe also possible State (RSAs in done based made task by made safe also possible State (RSAs in done based made safe for the formation of the same state of the same safe and the made safe also possible State (RSAs in done based). Soliny Authority (RSA) Impossily check the sulery requestionants of the traffic posted devices.

Boad finding Aculti can primitive the cisk and security of mail accidents by the road project and also can minimize the word or remedial works after commontaine. Boad adverse important heard on URE, 187–181, 2050) [9] is considered on an extension total. from Kontonicalism, to Personangeloss, notice is a Admittal to are of the security black per.

II. ILLETTRATURE REVIEW

This section, describe a that survey about Rusel Substy Audit, and chemifection of road by means of Woke substant and analysis.

A. Rosal Sopley Audio (#SA)

Road safley aculit is dries to ensure the operational safety performance of a road. Virtue, it has the potential first approxing uniforly when it is applicable to made or craffic decays before the project is implemented. Through RSA, the shauthinition of potential safety hatseab on new used projects at the appropriate stage can be time seed or that it can monerate the adverse effects at manifester love. It can be continued on any design proposal, which woodses changes to the ways read more will intrust, either with each other or with their physical environment; Purposes of the soult is to intensity to interest the environment of the soult in the observable or advantage to existing road on that it can be observable or advantage to the propose of the soult in the discontined or advantage to the propose of the soult is on intensity to interest the sould prove the become an acceptor power forcettor. Mother and Approved 122 pressumed a systematic approved to improve the road aftery by analyzing

Ph.D (Computer Science), Ph.D (Maths)



Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Activity Based Transportation Modeling for Chelakottukara ward of Thrissur District	Dr.Anitha Jacob	CE	International Journal of Engineering and Advanced Technology (IJEAT)	2018-2019	2249-8958	scopus

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International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958, Volume-8, Issue-4C, December 2018

Activity Based Transportation Modeling for Chelakottukara ward of Thrissur District

Midhun T, Anitha Jacob

Abstract: An Activity-based model is the one that generally replaces the conventional trip-based sunfel, which is anadisrepresented to as the four-step seedel. With the varieties in the transportation system attributes and changes in recis-domographics of the individuals, the transportation planners and engineers' next to have the ability to entire the versiations in transportation demand to us to make a well-sursed. transportation infrastructure planning decision pensible. Activity-based models are used for this purpose; these models are used to forecast travel characteristics and mage of transport services under different socio-sennonie scenarios. activity-based travel pattern madel has been developed for the individuals of the study area. This activity-travel pattern madel will rate different input parameters such as contour band-use, secto-demographic, activity system, and transportation level-of-service utributes. Thus it will provide the activity-trend pattern of each individual in the study even as the output, wishin the continuous time downle.

Index Terms: Activity-Bessel Yeared Pattern, Faur-Step Model, Socio-Economic, Travel Demand.

1. INTRODUCTION

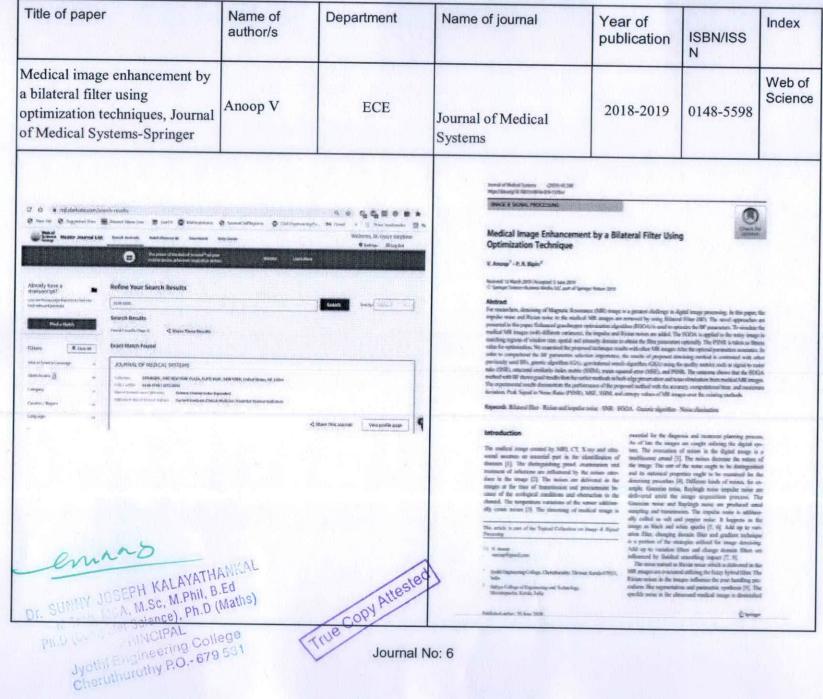
Transportation plays an important role in the growth and economy of a nation. For a country like Imilia, transportationplanning is becoming unavoidable due to the fast-growing population and travel demand. Transportation planners and engineers have to be able to forecast the response of transportation demand for the changes in the attributes of the of the passic using the transportation system in order to make . Sections of restaures and for such model.

starting and ending at the same location as the individual unit of analysis whereas activity-based travel dominst model considers travel as a derived demand to satisfy the need of the individual [1]. The objective of this paper is to develop an activity-based travel demand model for Chelakottukara, the 22nd word of the Thessur City of Kerala, taking into consideration of the socio-economic factors and travelpottern, validating the generated madel and suggesting how it can be made beneficial in the planning process. It includes a tour generation model for both single and complex activities.

II. LITERATURE REVIEW

4. Trap-Banul Models

Trip-based travel models have evolved over many decades. As their name siggests, trip-based models use the individual person trip as the fundamental unit of analysis. Trip-based models are widely used in practice to support regional, sub-regional, and project-level transportation analysis and decision making. Trip-based models are often referred to as "4-step" models because they commonly include four printary components. The first trip generation components estimate the numbers of trips produced by and attracted to each zone (these zones collectively represent the geography of the modelled area). The second trip distribution step connects teleps traps are produced and where they are attracted to. The third mode choice step determines the travel mode, such as automobile or transit, used for each top, while transportation system and changes in the socio-densignaphies the fourth assignment step predicts the specific network



Title of paper	Name of author/ s	Depart ment	Name of journal	Year of publication	ISBN/ISS N	Index
"Investigation of RF and DC Performance of E-Mode In0.80Ga0.20As /InAs /In0.80Ga0.20As Channel Based DG-HEMTs for Future Submillimetre wave and THz Applications	ECE	IETE Journal of Research	2018-2019	0377-2063	Web o	
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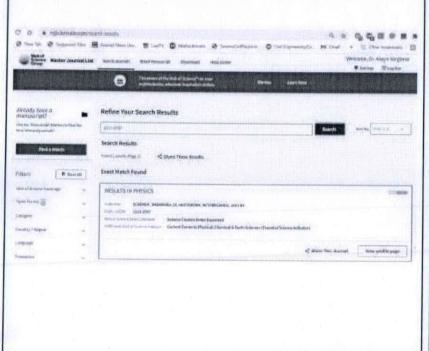
rial for next-generation high speed and loss preser applications due to its outstanding electron mobility of over 25300 cm³/Vs at 500 K [4-3]. In GaAs or InAs or — net, thereof this house and the doping strategy [22-42]. InGaAn/InAn/InGaAn channel based HIETs and HIESES. Xuothing Mei et al. have reported the first ever This here recently energed as the most satisfile transactor - amplified with a 9-dB gain at 17Hz forgacter using technologies for favore sub-millionerre serve and Title free 25 nm last HENCT which had an Fe of 440 GHz and Essa queucy applications such as warder minution systems, Tilly tecchiers for the Co. questionage and Tife imaging and

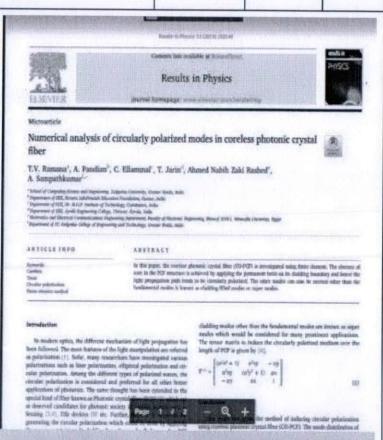
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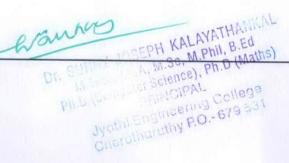
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Journal No: 7

Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Numerical analysis of circularly polarized modes in coreless photonic crystal fiber	Jarin T	EEE	Elsevier-Results in Physics	2018-2019	2211-3797	WEb of Science

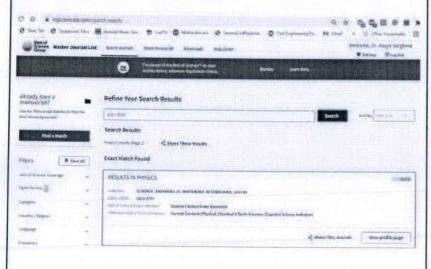


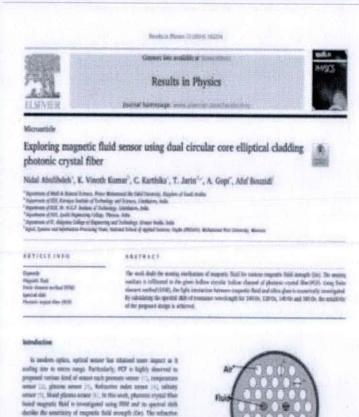






Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Exploring magnetic fluid sensor using dual circular core elliptical cladding photonic crystal fiber		EEE	Elsevier-Results in Physics	2018-2019	2211-3797	WEb of Science





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Dr. SUNNY JOSEPH KALAYATHANKAL

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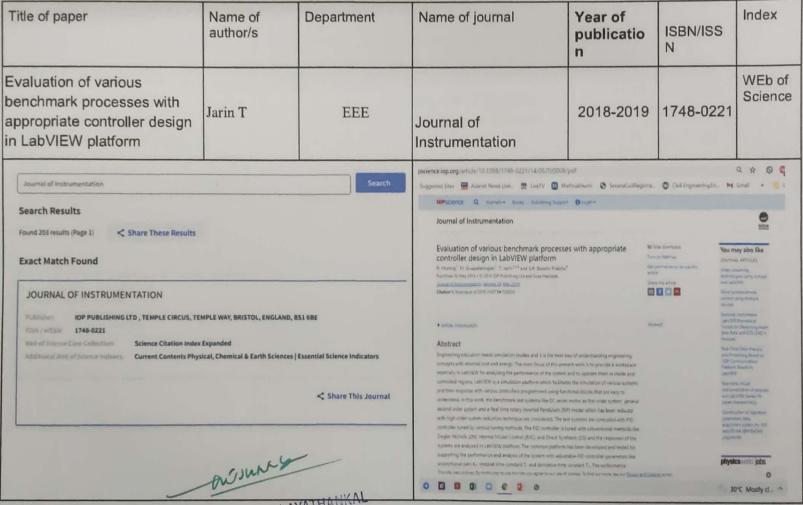
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A., M.Sc, M.Sc, M.Phil, B.Ed

A., M.Sc, M.Sc, M.Phil, B.Ed

A., M.Sc,

Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Evaluation strategies for wireless ultra wideband communication towards orthopedic surgical scheme	Jarin T	EEE	Journal of Medical Imaging and Health Informatics.	2018-2019	2156-7026	Scopus
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Scopus coverage years: from 2011 to 2018 (coverage discontinued in Scopus) Publisher: American Scientific Publishers ISSN: 2156-7018 E-ISSN: 2156-7026 Subject area: (Medicine: Radinlegs, Nuclear Medicine and Imaging) Source type: Journal	Medicine: Health Informatics)		Abstract Ingress of the control of t	Will be previous a configura- property from an include and confidence of services, before, mind a final and every as a first mind a privacy as a first mind a power parking of which has been radicated to a service and a first mind and the first mind and the first mind and the first mind and the first mind and the first mind and the first mind and the of mind and the first mind and the of mind and the first mind and the of mind and the first mind and the contraction of the mind and the contraction of the mind and the contraction of the contraction of the mind and the contraction of the contraction of the mind and the contraction of the contraction of the contraction of the mind and the contraction of the cont		

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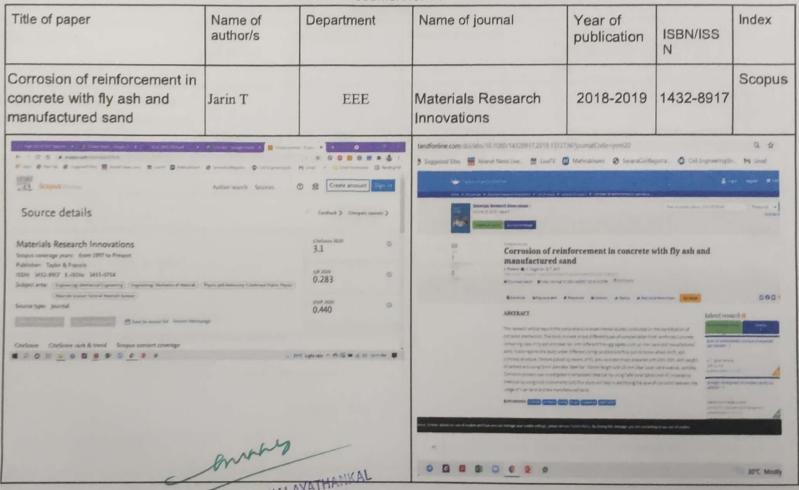
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Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Energy and exergy analysis, drying kinetics, modelling and quality parameters of microwave - dried turmeric slices.	B. Deepanraj	ME	Journal of Thermal Analysis and Calorimetry	2018-2019	1588-2926	Web of Scienc e
Search Results Found 326 results (Fage 1) Share These Results Exact Match Found JOURNAL OF THERMAL ANALYSIS AND CALO	IRIMETRY	Search	Energy and exergy analys and quality parameters of slices	f microwave-dried turn		Access 34. Area store in processor or o
SPRINGER, VAN GODEWIACKSTRAAT 30, DORDRECHT, NETHERLANDS, 3311 GZ 2386-6150 / 1586-2926 Science Citation Index Expanded Current Contents Physical, Chemical & Earth Sciences Exsential Science Indicators			The aim of this study was to evaluate the el- source coulysis, drying characteristics, no- microwave dryer. Drying experiments were Fruit microwave present levels of 20%, 50% now W were used for this study. From the	serie dises to serie sizes. pewer of d the-drying	Section and the section of	
mor = 111 ar r f	ant 2	Share This Journal	process mainly takes place in the vacualing markets evaluated in the study. Middli et al experimental data, Moissure diffusivity val the microwave person level increases. From maleliare extraction rate and specific energ	i and Pape model had a good agreeme loss increased (1.85 < 40 ⁻⁶⁸ to 1.99 c in the energy analysis. It was froud the	est with the 10 ¹⁰¹ m ² s) as at specific	Sections Figure Stational Sections Section Sec

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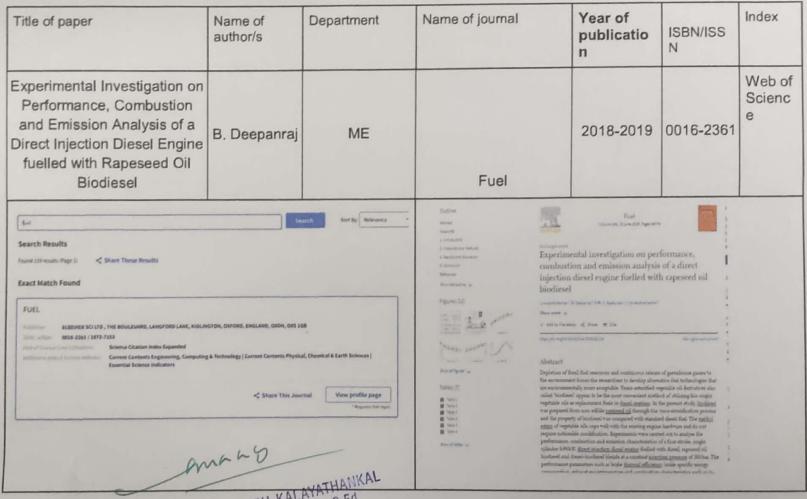
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Title of paper	Name of author/s	Department	Name of journal	Year of publication	ISBN/ISS N	Index
Low cost wireless telemetry system for deep brain stimulation	Jarin T	EEE	International journal of scientific research and review	2017-18	0974- 5645	Web of Science
Refine Your Searth Results Refine Your Searth Results Search Results	State	Pages A Service A Service Assessment Assessm	MILNER VITHAYATHIL ¹ , PAULSON Research Scholar, Department of Electros Student: Department of Electros and Electros Electrosety Lead. As sociates Professor, Department of Electros † Athapat hilbridge t Westerminger, m. in., "pag	ELEMETRY SYSTE STIMULATION MEKKATILL, BINOY VELL 15 crosses a and Communice action, NaT, 16 x Tregitine they, 3 yet by Engine they 16 yet they benegate one, totale 16 and Electrosisce Engineering, 5 yet 16 secons hant 100 years x x x x x x x x x x x x x x x x x x x	IYATH', JARIN T' Alonguer, Jacke, g Colle ge, Thelesser, India, thi Enginee every Colle ge, Wated nabiations cove, latine studies besent on Bretin- met the facilities' path occupes clading the bistory, which is a chantif of the mouth. I are mouth.	
MONTH OF SCHOOL AND INCHES		to (null on, retroments), confine seasable confines, model.	Deep Bean Stanutation (DBS) is becoming in pro- ceedings, this treatment in an approved and medial space at our duty life, there is a new geospective to approach that makes so explore these fields. One of the manual model using DBS is the most important of the manual model using DBS is the most important of the manual model using DBS is the most important and the costs on application between the application of the orbits [11, 4] introduced. There were many dars backs instituted to Though selmatiations are modeleded commercially, the base the product [11] is the rise of all these facts to exceed the functions of one, weight, precision a 2. METHOD. The new wireless stanutation cassints of a base state or a model. The system will be serving as the main	therapy for many patterns. As the ted has been that treatment. Brain Compo- the applications of this columbings is as well of the member of the property as ting may to enterge as present [2]. Judgest There were a lost of issues to a solution to all those, different type to a solution to all those, different type are all expensive in surface and distinct year all expensive in surface and store, we are are developing and modelling all determine.	indings adulties a presented time literation is seen as pipe of as the way of DRS. Studying man match [1]. Availd way of DRS was using into calless connections, about a divertion situations were for these metals as allowed as the second of the calless adultations were for these metals as indicated as a new minimization system that a new minimization system that	

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Title of paper	Name of author/s	Departme nt	Name of journal	Year of publication	ISBN/ISS N	Index
Tuning characteristics of Co3O4 nanofiber mats developed for electrochemical sensing of glucose and H2O2	Gibin George	ME	Thin Solid Films	2016-2017	0040- 6090	Web of Scienc e





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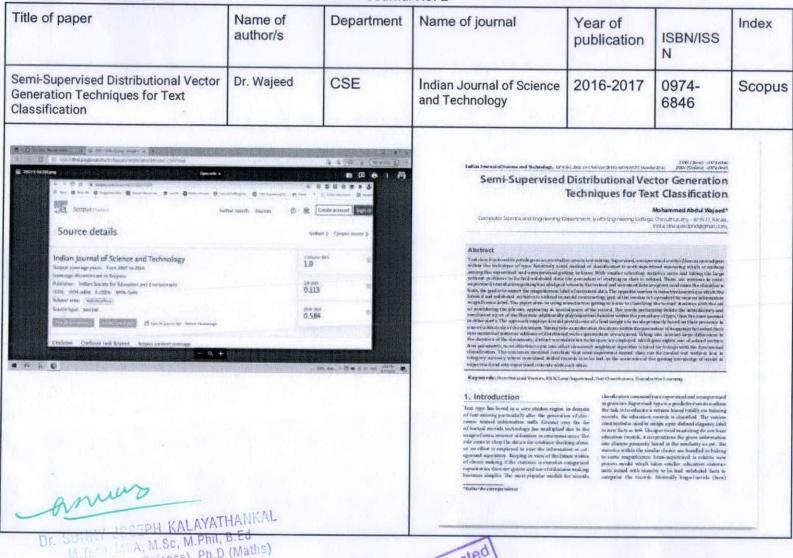
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