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RELIABILITY OF GAS INSULATED SYSTEM UNDER ELECTRIC FIELD  
STRESS WITH OPTIMAL DESIGN OF FGM SPACER RT&A, No 2 (68)  
Volume 17, June 2022

### Reliability of Gas Insulated System under Electric Field Stress with Optimal Design of FGM Post Type Spacer

Akanksha Mishra <sup>1</sup>, G. V. Nagesh Kumar<sup>2\*</sup>, D. Deepak Chowdary<sup>3</sup> and B. Sravana Kumar<sup>4</sup>

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\*Corresponding Author

#### Abstract

*Gas Insulated Substation (GIS) is essential for the transmission and control of power both in AC*

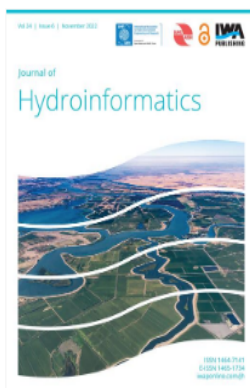
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## Article Contents

- Abstract**
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## Unsteady flow analysis using hydrological and hydraulic models for real-time flood forecasting in the Vamsadhara river basin

Arunima Mahapatra; Vazeer Mahmood; K. Venkatesh

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Journal of Hydroinformatics (2022) 24 (6): 1207-1233.

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### Abstract

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The river Vamsadhara runs through the states of Andhra Pradesh (AP) and Odisha along a stretch of coastline that is prone to cyclonic storms. Riverine flow, along with cyclonic gales, is a crucial issue for most of India's coastal districts. As a result, a developed flood forecasting model is required to mitigate the danger of flooding to a certain level. For evaluating maximum water depth

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Vol. 7 No. 1 January, 2022

International Journal of Mechanical Engineering

# The Selection of Clinical Orthodontic Implant Materials by Entropy Weight Methods through Hybrid Multi criteria Decision making Techniques

**M. Amareswari Reddy**

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## Abstract

The purpose of this research is to determine the most appropriate material that can be used in tooth implantation by employing multi-criteria decision-making techniques. The following techniques used in this research paper: Entropy weighting with Combinative Distance-Based Assessment (CODAS), The Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS), Additive Ratio Assessment (ARAS), Titanium grades 1-4 and Ti-6Al-4V, Ti-6al-7Nb, and Ti-29Nb-13Ta-4.6Zr are used as selection criteria. The proposed material selection technique is relatively inexpensive and may be advantageous when numerical selection of material properties or aspects of user interaction are required. The purpose of this paper is to determine which material is the most compatible from a health and transactional standpoint. Ti-6Al-4V is the optimal material for dental implant design, according to proposed techniques, followed by Ti-6al-7nb.

Keywords -- Multi-criteria decision making, weighting estimation by entropy, ARAS, TOPSIS, CODAS, material selection, dental implant

## I. INTRODUCTION

The human body is made up of numerous organic and inorganic components. Bones are a critical component of the human body as they provide the body with strength, flexibility, and form via the collagen and hydroxyapatite found in bone [1,2]. Calcium, magnesium, and potassium, as well as electrolytes, are the primary components of bones. Accidents, aging, and illness are the leading causes of bone failure. The use of biomedical implants is necessary to compensate for the limitations imposed by bone fracture [3,4]. Although the human body does not completely absorb foreign substances except those that are edible, it is noted that

Home / Archives / Vol. 13 No. 3 (2022) / Articles

# Box-Behnken Design: Optimization and Prediction of Ti-6Al-7Nb

PDF

M. Amareswari Reddy , Prof. K. Venkata Subbaiah , Dr. Challa. Suresh

## Abstract

Titanium's enhanced mechanical properties, corrosion resistance, and biocompatibility have expanded its usage in biomedical applications. Using the response surface approach, the present study optimizes the process parameters during the machining of titanium alloys: Ti-6Al-7Nb utilized in dental implantation by wire electrical discharge machining (WEDM) (RSM). WEDM parameters such as servo voltage, pulse-on time, pulse-off time, and wire feed rate were modified to determine their influence on the cut quality of Ti-6Al-7Nb utilizing surface roughness and material removal rate as response parameters.

Issue
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  - Aims and Scope
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Home > [The Journal of Analysis](#) > Article

# Existence, uniqueness and stability analysis of a tempered fractional order thermistor boundary value problems

Original Research Paper | Published: 03 June 2022

Volume 31, pages 85–107, (2023) [Cite this article](#)



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### ARTICLES

## Infinitely many positive solutions for an iterative system of singular BVP on time scales

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# Global existence and blowup of solutions for a semilinear Klein–Gordon equation with the product of logarithmic and power-type nonlinearity

Published: 04 April 2022

Volume 68, pages 187–201, (2022) [Cite this article](#)





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Mahammad Khuddush , K. Rajendra Prasad & B. Bharathi

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## Abstract

In this paper we study the initial boundary value problem of a semilinear Klein–Gordon equation with the multiplication of logarithmic and polynomial nonlinearities. By using potential well method and energy method, we obtain the existence of global solutions and finite-time blowup solutions.


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## Assessment of Quercetin Content in Selected Vegetables and Fruits by Conventional Extraction and High Performance Liquid Chromatography

Volume 38, Number 5

N. Swathi and N. V. S. Venugopal

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### ALMOST PERIODIC POSITIVE SOLUTIONS FOR A DELAYED NONLINEAR DENSITY DEPENDENT MORTALITY NICHOLSON'S BLOWFLIES MODEL ON TIME SCALES

ALMOST PERIODIC POSITIVE SOLUTIONS FOR A DELAYED NONLINEAR DENSITY DEPENDENT MORTALITY NICHOLSON'S BLOWFLIES MODEL ON TIME SCALES

*K. R. Prasad, M. Khuddush, K. V. Vidyasagar*

[PDF]

#### Abstract

In this paper we discuss a nonlinear density dependent mortality Nicholson's blowies equation with multiple pairs of time varying delays. By contraction mapping theorem, we derived the necessary conditions for the existence of almost periodic positive solutions and by selecting suitable Lyapunov functional we study global asymptotic stability of the addressed model. Finally, some numerical simulations are listed to show the validity of our methods.

#### Keywords

Time scale, Nicholson's blowies model; almost periodic positive solution, global asymptotic stability.

# Denumerably many positive radial solutions for the iterative system of Minkowski-Curvature equations

Document Type : Research Paper

### Authors

Khuddush Mahammad <sup>1</sup>; Rajendra Prasad Kapula <sup>2</sup>; Bharathi Botta <sup>2,3</sup>

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doi 10.22075/IJNAA.2021.23621.2567

### Abstract

This paper deals with the existence of denumerably many positive radial solutions to the iterative system of Dirichlet problems

$$\operatorname{div}\left(\frac{\nabla z_j}{\sqrt{1-|\nabla z_j|^2}}\right) + g_j(z_{j+1}) = 0 \text{ in } \Omega,$$



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## Existence theory and stability analysis to the system of infinite point fractional order BVPs by multivariate best proximity point theorem

Document Type : Research Paper

### Authors

Khuddush Mahammad<sup>1</sup>; Rajendra Prasad Kapulinda<sup>2</sup>; Doddi Leela<sup>2</sup>

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doi 10.22075/IJNAA.2022.25945.3167

### Abstract

This paper deals with the existence of solutions to the system of nonlinear infinite-point fractional order boundary value problems by an application of n-best proximity point theorem in a complete metric space. Further, we study Hyers-Ulam stability of the addressed system. An appropriate example is given to demonstrate the established results.

### Keywords

Fractional derivative ; boundary value problem ; n-best proximity point theorem ; metric space ; Hyers-Ulam stability



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# Infinitely many positive solutions for an iterative system of fractional BVPs with multistrip Riemann–Stieltjes integral boundary conditions

Published: 07 September 2022

Volume 33, article number 91, (2022) [Cite this article](#)



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Mahammad Khuddush , K. Rajendra Prasad & P. Veeraiah

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## Abstract

In this paper, the existence of infinitely many positive solutions for an iterative system of singular fractional order boundary value problems having increasing homeomorphism and positive homomorphism operator (IHPHO) with Riemann–Stieltjes integral boundary conditions are discussed. The arguments are discussed via Hölder’s inequality and Krasnoselskii’s cone fixed point theorem in a Banach space. Finally, some examples are included to ensure the abstract results.


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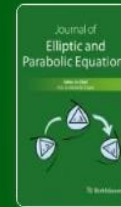
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# Global existence and blow-up of solutions for a $p$ -Kirchhoff type parabolic equation with logarithmic nonlinearity

Published: 25 August 2022

Volume 8, pages 919–938, (2022) [Cite this article](#)



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Mahammad Khuddush [✉](#), Rajendra Prasad Kapula & Sa-Botta Bharathi

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## Abstract

In this paper a class of  $p$ -Kirchhoff type parabolic equation with logarithmic nonlinearity is considered. By applying Galerkin's approximation and the modified potential well method, some sufficient conditions are obtained for the existence of global and finite blow up of solutions.

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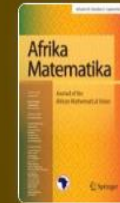
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# Existence of infinitely many positive radial solutions for an iterative system of nonlinear elliptic equations on an exterior domain

Published: 13 September 2022

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## Abstract

In this paper by an application of Krasnoselskii's fixed point theorem, we establish the existence of infinitely many positive radial solutions to the iterative system of nonlinear elliptic equations of the form

$$\Delta v_i + \frac{(N-2)^2 r_0^{2N-2}}{r^{2N-2}} v_i + Q(|x|) g_i(v_{i+1}) = 0, \quad x \in \Omega,$$

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# Global exponential stability of almost periodic solutions for quaternion-valued RNNs with mixed delays on time scales

Original Article | Published: 11 October 2022

Volume 28, article number 75, (2022) [Cite this article](#)



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Mahammad Khuddush & K. Rajendra Prasad

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## Abstract

This paper deals with the time scale model of time-delayed quaternion-valued recurrent neural networks (QVRNNs). Using contraction mapping principle and exponential dichotomy of linear dynamic equations, we derive sufficient conditions for the existence, uniqueness and the global exponential stability of almost periodic solutions to the addressed QVRNNs. Finally, an appropriate example is given to check the feasibility of our

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Existence of solutions to the  $\infty$ -point fractional BVP posed on half-line via a family of measure of noncompactness in the Hölder space  $C_t, \alpha(\mathbb{R}^+)$

**Khuddush Mohammad** (Department of Mathematics, Dr. Lankapalli Bullayya College of Engineering, Resupuvanipalem, Visakhapatnam, India), [khuddush89@gmail.com](mailto:khuddush89@gmail.com)

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This paper deals with the existence of solutions for the Riemann-Liouville fractional order boundary value problem with infinite-point boundary conditions posed on half-line via the concept of a family of measures of noncompactness in the space of functions  $C_t, \alpha(\mathbb{R}^+)$  satisfying the Hölder condition and a generalized Darbo fixed point theorem.

Keywords: Fractional derivative, boundary value problem, Family of measure of noncompactness, Darbo fixed point theorem

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# DENUMERABLY MANY POSITIVE RADIAL SOLUTIONS FOR THE ITERATIVE SYSTEM OF ELLIPTIC EQUATIONS IN AN ANNULUS

K. Rajendra Prasad, Mahammad Khuddush and B. Bharathi

Communicated by Martin Bohner

MSC 2010 Classifications: Primary 35J66, 35J60; Secondary 34B18, 47H10.

Keywords and phrases: Nonlinear elliptic system, annulus, positive radial solution, Krasnoselskii's fixed point theorem.

**Abstract** Sufficient conditions are derived for the existence of denumerably many positive radial solutions to the iterative system of elliptic equations

$$\begin{aligned} \Delta u_j + P(|x|)g_j(u_{j+1}) &= 0, \quad R_1 < |x| < R_2, \\ u_{\ell+1} &= u_1, \quad j = 1, 2, \dots, \ell, \end{aligned}$$



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March 2022

# Existence of solutions for $n$ -dimensional fractional order bvp with $\infty$ -point boundary conditions via the concept of measure of noncompactness

D. William John Victor, Mahammad Khuddush

Adv. Studies: Euro-Tbilisi Math. J. 15(1): 19-37 (March 2022). DOI: 10.32513/asetmj/19322008202

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## Abstract

In this paper, using the concept of measure of noncompactness we present some results on the existence of  $n$ -fixed points for a class of operators. Also as an application, we derive the sufficient conditions for the existence of solutions for  $n$ -dimensional fractional order functional boundary value problems.

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# Nonlinear two-point iterative functional boundary value problems on time scales

Original Research | Published: 24 January 2022

Volume 68, pages 4241–4251, (2022) [Cite this article](#)



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## Abstract

This paper is concerned with second order iterative functional boundary value problem with two-point boundary conditions on time scales. By utilizing Schauder fixed point

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# An International Journal of Optimization and Control: Theories & Applications

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## Existence and stability analysis to the sequential coupled hybrid system of fractional differential equations with two different fractional derivatives

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# Existence theory and stability analysis to the system of fractional order BVP with Riemann–Liouville integral boundary conditions

Original Research Paper | Published: 17 January 2022  
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K. Rajendra Prasad, Mahammad Khuddush & D. Leela

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## Abstract

In this paper we generalize the fixed point theorem of Krasnoselskii, due to Burton (Appl Math Lett 11:85–88, 1998) to multivariate fixed point theorems of  $n$ -variables and then we study existence of solutions to the system of nonlinear fractional order differential equations with Riemann–Liouville type integral boundary conditions. Further, we also study Hyers–Ulam stability of the addressed system.

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Math. Appl. 11 (2022), 57–74  
DOI: 10.13164/ma.2022.06



## ITERATIVE SYSTEM OF NABLA FRACTIONAL DIFFERENCE EQUATIONS WITH TWO-POINT BOUNDARY CONDITIONS

MAHAMMAD KHUDDUSH AND K. RAJENDRA PRASAD

*Abstract.* In this paper, we consider the nabla fractional order boundary value problem

$$\begin{aligned} \nabla_{n_0}^{\beta-1} [\nabla z_j(t)] + \varphi(t)g_j(z_{j+1}(t)) &= 0, \quad t \in \mathbb{N}_{n_0+2}^n, \quad 1 < \beta < 2, \\ az_j(n_0 + 1) - b\nabla z_j(n_0 + 1) &= 0, \\ cz_j(n) + d\nabla z_j(n) &= 0, \end{aligned}$$

where  $j = 1, 2, \dots, N$ ,  $z_{N+1} = z_1$ ,  $N \in \mathbb{N}$ ,  $n_0, n \in \mathbb{R}$  with  $n - n_0 \in \mathbb{N}$  and derive sufficient conditions for the existence of positive solutions by an application of Krasnoselskii's fixed point theorem on a Banach space. Later, we derive sufficient conditions for the existence of a unique solution by applying Rus's contraction mapping theorem in a metric space, where two metrics are employed.

### 1. INTRODUCTION

Fractional calculus is a generalization of classical integer order calculus and has been studied for more than three decades. Unlike integer order derivatives, the fractional derivative is a non local operator, which implies that the future states depend on the current state as well as the history of all the previous states. From this point of view, fractional differential equations provide a powerful tool for

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# Opinion Mining Using Normal Discriminant Piecewise Regressive (NDPR) Sentiment Classification Technique

K. Anuradha, M. Vamsi Krishna, and Banitamani Mallik

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## Abstract

Sentiment analysis through opinion mining is determined through significant and growing interest for many industries including hotel, tourism, educations and so on. Sentiment analysis includes design of the system to search the user opinions in blog posts, comments, reviews or tweets regarding the product, policy or area. Many researchers carried out their research on opinion mining to identify the polarity of the statements. But the main problem during opinion mining is that the words chosen do not solve attribute relevancy and could not classify the positive and negative usage of uncertain terms. In order to address these problems, normal discriminant piecewise regressive (NDPR) sentiment classification technique is introduced. NDPR technique perform three processes, namely, pre-processing, feature extraction and classification to improve the



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**International Journal & Magazine of Engineering,  
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*A Peer Reviewed Open Access International Journal*

## **Automated Smart Billing System Using RFID Technology**

**Seemanapalli Parvathi Pravallika, Palakula Gnana Prabha, Pediredla Kavitha, Gummadi Neelima**

Department of Electronics and Communications

Guided by

**Ms. Sabbi Surya Kala**

Assistant Professor, Department of ECE

Dr. Lankapalli Bullayya College of Engineering for Women.

**ABSTRACT:** The embedded system is the one which has a computer-hardware with software embedded in it as one of its most important component. This makes our life better and simple. This smart billing system is one of the embedded systems. An automated smart shopping system is formed using the concept of RFID. Each of the shopping cart consists of an RFID reader, RF module, AVR Microcontroller, LCD display, and load cells and the products are embedded with the RFID tags. The RFID tag will have the details of the

supermarkets and hence are trying to purchase everything online along with the household products or groceries but there are people who still go the supermarkets and buy the products. Thus, this system makes it easier for them as the time taken to scan and bill the products is reduced a lot.

The Smart Billing System is based on the concept of Radio Frequency Identification (RFID). RFID technology uses radio waves in order to track or identify the products and



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### Title

Design of Linear Antenna Array for Smart Antenna using Whale Optimization Algorithm

### Authors

Kandrapu Rajesh Kumar  
Lalem Sai Manisha  
Bharatula Yashwanti Vardhani  
Burransetty Sri Lakshmi Yamini  
Khusabu Kumari

### Abstract

The Whale Optimization Algorithm(WOA) is a new metaheuristic optimization algorithm and this technique is used for solving optimization problems. WOA has been designed to solve single-objective optimization problems. It mimics the hunting behavior of humpback whales. The inspiration results from the fact that a whale recognizes the location of a prey (i.e., optimal solution) by swimming around the prey within a shrinking circle and along a spiral-shaped path simultaneously. This algorithm includes three operators to simulate the search

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# Electric Field Stress in a Three Phase Common Enclosure Gas Insulated Busduct with FGM Post Type Spacer and Reduction with Metal Inserts

Original Article | [Open access](#) | Published: 14 December 2020

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## Abstract

The establishment of supporting insulators plays a vital role in the continuous operation of the three-phase Gas Insulated Busduct (GIB), which primarily depends on the distribution of electric field stress on the spacer surface. Shape control is a technique used along the

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## SPWM Fed Induction Motor Drive Performance Using SIMULINK

Anand Gondesi

Ch. Ravi Kumar, Seerapu Varalakshmi, Singampalli Hema

**Keywords:** Electric Vehicle [EV], Internal Combination [IC], Sinusoidal pulse width modulation [SPWM]

### Abstract

In the former times, IC engines were used for transportation by most of the vehicles. But due to the depletion of fossil fuels day to day, the world is moving towards the Electric Vehicles (EVs) to overcome this problem. Electric Vehicles have higher efficiency and weight/power ratio. In general, DC motors were used in electric vehicles. The DC motors could not meet the



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# GIS BASED FLOOD HAZARD MAPPING: A CASE STUDY OF TANDAVA RIVER BASIN, ANDHRA PRADESH

Ms. S.Anita<sup>1</sup>, Prof. Vazeer Mahamood<sup>2</sup>, Er.Arunima Mahapatra<sup>3</sup>, Ms. M Amareswari Reddy<sup>4</sup>

<sup>1</sup>PG student, Department of Civil Engineering, Andhra University College of Engineering(A), Viskhapatnam-530003, Andhra Pradesh, India

<sup>2</sup> Professor, Department of Civil Engineering, Andhra University College of Engineering(A), Viskhapatnam-530003, Andhra Pradesh, India

<sup>3,4</sup>Assistant Professor, Department of Civil Engineering, Dr Lankapalli. Bullayya College of Engineering, Viskhapatnam-530013, Andhra Pradesh, India

Email: [arunimam@lbc.edu.in](mailto:arunimam@lbc.edu.in)<sup>3</sup> [amareswari@lbce.edu.in](mailto:amareswari@lbce.edu.in)<sup>4</sup>

**Abstract:** A flood occurs as water overflows and submerges normally dry land. Flooding is a natural phenomenon that occurs on the surface of the Earth. Although we cannot prevent floods, we can foresee flooding and protect lives, land, and other resources before it happens. The primary consideration of flood-prone areas for land use planning is the monitoring of flood hazard areas using Arc GIS. Most agricultural fields that are vulnerable to flooding are found in the villages next to the Tandava River. The study covers an area of 1283 km<sup>2</sup> in Visakhapatnam district, Andhra Pradesh aims to provide flood hazard risk zone maps for the Tandava River basin using a combination of Remote Sensing and Geographic Information System (GIS), based on a multi-criteria assessment. Using geospatial data, satellite imagery and GIS methods various landscape parameters and environmental factors, are taken into consideration to prepare the flood danger risk zone maps. The thematic map weightages are determined with the analytical hierarchy method (AHP). Weighted overlay analysis is applied and weightages are given to the various thematic maps such that a flood hazard risk zone map was generated for the study area. The hazard map was categorized into





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**International Journal of Advanced Technology and Engineering Exploration (IJATEE)**

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Volume-8 Issue-81 August-2021

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**Paper Title** : Development of real-time flood forecast model for vamsadhara river through hydrological approach

**Author Name** : Arunima Mahapatra, Vazeer Mahmood and K H V Durga Rao

**Abstract** : Hydrologic simulation of large river catchments, and the decision to choose a computerized model, is a complex job that necessitates a thorough knowledge of rainfall-runoff processes. While modeling involves proper estimation of direct surface runoff volume and peak discharge in a watershed. In the present study, a real-time flood forecasting model is developed using Hydrological Modelling System (HMS) to forecast floods and River Analysis System (RAS) to identify inundation areas in the Vamsadhara river basin located between Odisha and Andhra Pradesh in India. The flood prediction model is constructed using a simulation of spatial data. The approach includes a loss model to compute infiltration loss, a transform model to simulate runoff rate, and a Muskingum routing method to route flow in a river along with model calibration, and validation with field data. Topographic and hydrologic parameters for each of 17 sub-basins are computed using Land Use, Land Cover (LULC). Muskingum parameters are also calculated. The hydrological model has been calibrated using the precipitation and gauge discharge data of the 2006 flood event. For validation of the modeling process, flood events in 2010 and 2013 at two Gunupur and Kashinagar gauge stations were chosen. The simulated peak discharges obtained are sufficiently accurate with observed data at both the gauge stations. The Nash-Sutcliffe efficiency (NSE) obtained for the calibration period are 0.78 & 0.77, which shows that model performance is good and accepted for simulation of streamflow. Similarly, the model performance for validation period is 0.81 & 0.80 for 2010 flood event while for the 2013 flood event are 0.84 & 0.82 indicating very good model performance. Overall, the study revealed that the HMS model could be employed for the calculation of surface runoff and flood forecasting in similar areas and conditions existing nearby catchments. Flood inundation maps generated with HEC-GeoRAS and Hydrologic Engineering Center-River Analysis System (HEC-RAS) for 1D steady flow demonstrate the model's output. As a result, this would help in the effective monitoring of flood hazards and the

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## Determination of Guaiacol in presence of monovalent inorganic salt and its assessment in *Citrus sinensis* leaves and *Citrus limon* peels

N.V.S. Venugopal<sup>\*1</sup>, N. Swathi<sup>2</sup> and P. Padmavathi<sup>2</sup>

<sup>1</sup>Department of Chemistry, Institute of Science, GITAM University, Visakhapatnam, A.P, India

<sup>2</sup>Department of Chemistry, GITAM University, Visakhapatnam, A.P, India

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### ABSTRACT

Guaiacol (2-methoxy phenol) is a naturally occurring expectorant and biosynthesized by a variety of organisms. Guaiacol is also used medicinally as an expectorant, antiseptic, and local anaesthetic. In this study we reported a method for easy and rapid spectrophotometric determination of Guaiacol in presence of perbromate and periodate. The optimized method has been successfully applied for the determination of Guaiacol in orange (*Citrus sinensis*) leaves and lemon (*Citrus limon*) peels. The products obtained shows maximum absorbance at 515 nm in presence of potassium periodate and 590 nm with potassium perbromate. Beer's law is obeyed in the linear dynamic range of 20-187.9  $\mu\text{g ml}^{-1}$ . The correlation coefficient is 0.996 which indicates the linearity between the two variables. The molar absorptivity coefficient and sandal's sensitivity of the product are found to be  $6.35 \times 10^4 \text{ L mol}^{-1} \text{ cm}^{-1}$  and  $0.026 \mu\text{g cm}^{-2}$  respectively. Hence, the proposed method is fairly sensitive and reproducible.

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# FUZZY TRANSPORTATION MODEL USING L-R FLAT TRAPEZOIDAL APPROXIMATIONS

PDF

DOI:  
<https://doi.org/10.17762/turcomat.v12i13.10008>

**Keywords:**  
L-R flat fuzzy numbers;  
Approximation of L-R flat fuzzy numbers;  
Fuzzy transportation problem;  
L-R type fuzzy ranking

Ch.Uma Swetha, N.Ravi Shankar, B.Pardha Saradhi

## Abstract

Transportation problem is applied for many different circumstances being scheduling, production, investment, plant location, inventory control, employment scheduling, and several methods. The aim of the fuzzy transportation problem is to resolve the transport schedule that minimizes the total fuzzy transportation cost while delightful the fuzzy supply and fuzzy demand limits. In view of this, a novel approach to optimize fuzzy transportation model by using trapezoidal approximations of L-R flat fuzzy numbers is proposed. A few generalized and modern properties of the trapezoidal and triangular approximations of L-R flat fuzzy numbers for parameters in fuzzy transportation problem is suggested. Numerical example is illustrated for the novel fuzzy transportation model.



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# Hesitant Fuzzy Project Planning and Scheduling using Critical path Technique

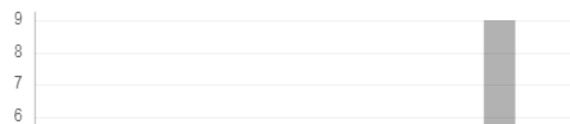
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<https://doi.org/10.17762/turcomat.v12i6.9342>

B. Pardha saradhi, et. al.

## Abstract

Hesitant fuzzy set is extremely useful performance to express people's uncertainty. But there are delicate points in conventional hesitant fuzzy set, which articulated the membershipdegrees of an element to a given set only by some crisp numbers .Hesitant fuzzy set to Triangular Fuzzy Hesitant Fuzzy Set (THFS), in which the membership degreeof an element to a given set is expressed by several possible triangular fuzzy numbers. A new plan to determine the critical path in the project network using Triangular Hesitant Fuzzy set (THF).In this project network Each activity time is THFS.One of multicriteria decision making Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) is used for the project network to identify the best path in the project.Finally a numerical exemplar is furnished to elucidate the critical path of the project network.



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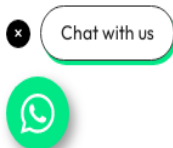
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## Legal Policies for Sustainable Security and Privacy in Big Data and Information sharing- A managerial perspective

K. Sowjanya Naidu  
Srinivasa L. Chakravarthy

**Keywords:** Big Data Security Challenges, Security & Privacy, Legal Policies, Law Policies,

### Abstract

Information plays an important role as a resource in the development and success of an organization. It is useful in decision-making to achieve the goals of the organization in an optimized way. This has to be achieved without affecting the information security and privacy of the stakeholders.



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Volume 33, Part 7, 2020, Pages 3600-3603

# Particle Swarm Optimization for robot target tracking application

Santosh Sai Rayala<sup>a</sup>, N. Ashok Kumar<sup>b</sup>

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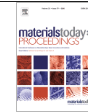
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Materials Today: Proceedings, Volume 33, Part 7, 2020, Pages A3

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## Abstract

Tracking is a process of finding continuous path of a selected target. Tracking is important in various civil and defense applications. For tracking applications, various adaptive filters are being used such as Kalman Filter and it's variants. In this paper, a



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FEEDBACK



## Design of Linear and Circular Antenna Array for Side Lobe Reduction Using the Method Moth Flame Optimization Algorithm

Vennapu. Krishna Tulasi<sup>1</sup>, K. Rajesh Kumar<sup>2</sup>, Dr. Vennapu. Lakshmana Rao<sup>3</sup>

<sup>1</sup>. U.G Student, Dept. of ECE, Dr. L. B. College of Engg. (W), Visakhapatnam, India

<sup>2</sup> Assistant Professor, Dept. of ECE, Dr. L. B. College of Engg. (W), Visakhapatnam,

India <sup>3</sup>.Assistant Professor, Dept. of Meteorology and Oceanography, Andhra University, Visakhapatnam, India

### ABSTRACT

A design problem of symmetrical linear antenna array (LAA) and a non-uniformly excited single ring circular antenna array (CAA) for minimized side lobe level (SLL) is presented in this paper. Moth Flame optimization (MFO) is considered one of the promising meta heuristic algorithms and successfully applied in various optimization problems. In this paper, MFO is applied to determine inter-element spacing and current excitation weights among the elements to reduce SLL and improve the half power beam width (HPBW) and improve first null beam width (FNBW). The simulation results of the designed LAA, CAA are compared with a fully populated array to illustrate the effectiveness of our proposed method.

**KEYWORDS:** linear antenna array, side lobe level, circular antenna array, moth flame optimization, half power beam width.

### 1. INTRODUCTION

A group of antenna elements which are excited to achieve a desired radiation pattern in a given direction is called Antenna array. They can provide capability of beam steering. Antenna arrays are widely used in sonar, radar, communication and high power transmission applications. The radiation pattern depends on the antenna array parameters like geometrical configuration of the array, inter-element spacing and the current excitation weights of each array element. Array

# International Journal of Advanced Science and Technology

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## Reduction of PAPR and BER Using Hybrid Optimization GWOFA in OFDM Systems

Reddi Sridevi, Dr.T.Madhavi

### Abstract

Orthogonal frequency division multiplexing (OFDM) system can assure a greater immunity to multipath fading under a wireless communication environment. But the major challenge is to address the issue of high peak to average power ratio (PAPR) in OFDM systems. Orthogonal frequency division multiplexing (OFDM) is an efficient multi-carrier modulation technique that underlies most of the current and probably future high-speed wireless communication systems. However, the OFDM waveform is characterized by a high peak-to-average power ratio (PAPR), especially when a large number of subcarriers are used. A high PAPR is a major waveform defect since it leads to non-linear distortion when passing through the transmitter's power amplifier. Most of the PAPR reduction techniques found in the

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**ROLE OF MORPHOMETRY IN DIAGNOSING PREMALIGNANT AND MALIGNANT LESIONS IN LIQUID BASED CYTOLOGY CERVICAL SMEAR(PAP SMEAR)**  
Volume 11 (2024) | Issue 4

**AN OBSERVATIONAL STUDY ON MRI IMAGING FEATURES IN THE EVALUATION OF GLOBAL DEVELOPMENTAL DELAY IN PAEDIATRIC AGE GROUP**  
Volume 11 (2024) | Issue 4

**DESCRIPTIVE STUDY TO ASSESS THE ROLE OF MRI IN CHARACTERIZATION OF CNS COMPLICATIONS AMONG DIAGNOSED CASES OF LEUKEMIA IN A TERTIARY CARE CENTRE IN WESTERN INDIA.**  
Volume 11 (2024) | Issue 4

**ORIGINAL ARTICLE - CORELATION BETWEEN FINE NEEDLE ASPIRATION CYTOLOGY AND THYROID FUNCTION TEST IN CASES OF BENIGN THYROID LESION**  
Volume 11 (2024) | Issue 4

### Optimization of PAPR in MB-OFDM UWB Signals Using SM-HOA Technique

1Reddi Sridevi, 2Dr. T. Madhavi

**Keywords:**  
OFDM, UWB Signals, Firefly Algorithm, Grey wolf Optimization, PAPR, BER

#### Abstract

In wireless communication systems some require high data rate which can be greater than 100Mb/s which is a short range. Here ultra-wideband (UWB) systems can be used as it has high channel capacity. The spectrum available in UWB is used in orthogonal frequency division multiplexing systems with multi band (MB-OFDM) for various applications in communication. The major barrier in communication system is high peak average power ratio (PAPR) due to the disturbances caused in transmitting components which are nonlinear in nature. It is very much essential to reduce the PAPR to maximum extent in MB-OFDM UWB signals. In this paper, Hybrid optimization technique is considered by combining Grey-wolf and firefly algorithm for PAPR reduction. The noise reduction is performed for the UWB signals and results need to be analysed. In this paper the evaluation of proposed algorithm is shown by calculating the error rate per bit (BER) and PAPR. The obtained results are compared with other optimization techniques. Our results demonstrated hybridization of optimization technique is a promising technique for the transmission of MB-OFDM UWB



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## Design of Sliding Mode Observer Based Controller of Single-Phase Induction Motor

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<sup>3</sup>Assistant Professor, Department of EEE, Dr L Bullayya college of Engineering for Women, Visakhapatnam

### To Cite this Article

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### Article Info

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### ABSTRACT

Single-phase induction motors are simple in construction, cheap in cost, reliable and easy to repair and maintain. Many controllers were designed to control the speed of a single-phase induction motor, but they are sensitive to plant parameter variations and disturbances. Speed control with very less transient response requires non-linear and robust control methods. Sliding mode control is one of the robust control techniques which is insensitive to disturbances. Here we propose a higher order sliding mode (SM) observer-based controller for a single-phase induction motor. The applied control depends on the dynamic model of the

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# Study of electric field stress on the surface contour and at the triple junction in three phase GIS with FGM spacer under the depression defect

Janaki Pakalapati, Venkata N. Kumar Gundavarapu , Deepak Chowdary Duvvada and Sravana Kumar Bali

From the journal International Journal of Emerging Electric Power Systems

<https://doi.org/10.1515/ijeeeps-2020-0080>

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## Abstract

Now days, the establishment of spacers is in wide usage in three-phase Gas Insulated Busduct (GIB) for providing mechanical support and better insulation to the conductors. The region of the intersection of SF6 gas, enclosure end and the spacer is one of the weakest links in GIB, so the major concentration is done on minimization of electric field stress at this junction by using Functionally Graded Material (FGM) technique. The other incidents of insulation failures are due to several defects like depression, delamination etc. reduces the dielectric strength of the spacers. In this paper, an FGM post type spacer has been designed for a three-phase GIB under depression and further electric field stress at Triple Junction

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# Power System Contingency Analysis by using Voltage and Active Power Performance Index

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## ABSTRACT

*Now a days, power system protection is an important task for an operating engineer, which can be done by doing online security assessment. The contingency analysis technique is a prerequisite to predict the effects of various contingencies like failure of transformers, transmission lines, etc. To do contingency analysis first the operator has to know the parameters like voltage, power and voltage angle at each and every bus by doing load flow analysis on the system. Newton Raphson method is the best load flow method as it gives*

# Design Of Functional Observer Based Load Frequency Controller For Inter-Connected Power System

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**Abstract**— This paper presents a novel peculiar functional observer based on quasi-decentralized load frequency control scheme for power systems. The quasi-decentralized functional observers are designed to implement any given state feedback controller based on functional observer theory. The designed functional observers are decoupled from each other to have a simpler structure when compared to the state observer based schemes. The proposed design method is based on the network topology and the proposed functional observer scheme is further applied to a complex nonlinear power system.

**Index Terms**— Functional Observer, Load Frequency Control, Luenberger observer.

For other methods of LFC, see [14]–[16], and in [17] a survey of various control schemes can be found.

Literature of LFC is based on approximating all generators in a given area into a single generation unit. Furthermore, the power distribution network including various bus bars and transmission lines are all lumped into one single entity in the analysis and design of controllers. With growing complexity of power distribution, assumptions which loose the network topology may not be the correct representative of a complex power network. The present paper makes no such simplified assumptions thus presenting a quasi decentralized functional observer scheme to control the frequency and tie-line power of a multi-area

## USE OF BOTTOM ASH IN IMPROVING THE STRENGTH CHARACTERISTICS OF BLACK COTTON SOIL

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### ABSTRACT:

Expansive soils cover about 20% of the total area in India. They are found in the states of Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra and Tamil Nadu. Hot climate and poor drainage conditions are usually associated with the formation of these soils. Expansive soils are highly problematic because of their alternative swelling and shrinkage. The problem of expansive soils is causing failures in the structures like buildings, bridges, railway and highway embankments. In this work the use of bottom ash in stabilising the expansive soils is studied at varied proportions and extensive testing is done to determine the engineering properties. The strength properties of these soils are observed to be improved considerably when compared with their naturally existing state.

**Key words:** Expansive Soil, Bottom Ash, OMC, MDD, CBR, UCS

# Solid State Technology

Home / Archives / Vol. 63 No. 1s (2020) / Articles

## Impact of Niobium on Lithium - Titanate Anode Materials of Lithium-ion Batteries

K. Surendra , B. Vikram Babu , M. Sushma Reddi , G. Chandana , A. Rama Krishna , D. Deenabandhu , A.D.P. Rao



Issue

[Vol. 63 No. 1s \(2020\)](#)

Section

Articles

### Abstract

Effect of the Nb<sup>5+</sup> substitution at the expense of Ti on the lithium titanate (LTO) anode materials of lithium ion materials has been carried out having the chemical composition Li<sub>4</sub>Ti<sub>5-x</sub>Nb<sub>x</sub>O<sub>12</sub> (x=0, 0.0125, 0.025). These materials are synthesized by solid state reaction method, which calcinated for 20 hours at 800 °C. A systematic presentation of the results relating to the structural, morphological,



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**SELF-REALIZATION TO SEARCH FOR IDENTITY A STUDY ON  
SELECT NOVELS OF MAYA ANGELOU**

**Dr Rada Devi Vadapalli**

Associate Professor of English

Dr Lankapalli Bullayya College of Engineering for Women

Visakhapatnam, A.P, India

**Abstract**

Maya Angelou shared her mission for human distinction, recognizing her own battle with the general circumstances of the Black Americans, which take up part in connection to the Black Americans, as well as in connection to the general thought of America. Her collections of memoirs praise the extravagance and imperativeness of Southern Black life that endure even with neediness and racial bias. At first, her festival of the Southern Black life is uncovered through the representation of the creator's life as a dark child in Arkansas of the 1930s in I Know Why the Caged Bird Sings. The second portrayed a young lady attempting to make a presence endeavoring to accomplish a promising life and love in America amid post-World War II in Gather Together in My Name. Her journey for character, slow acknowledgment and acknowledgment of black excellence and self-acknowledgment of black womanhood and parenthood are likewise essentially depicted in her writings. Truth be told, she is one of the principal African American women who freely depicted her private life. These characteristics roused to examine her initial two exemplary autobiographies.





# “Collaborative Teaching and Learning in ESL Classroom”

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### ABSTRACT

It's clear that globalization is making English language especially important not just for the students in the universities, but in areas such as law, electronics, aviation, computers, medicine, shipping, tourism and entertainment. At the college level, as English remains a major medium of instruction, the students are paying additional attention to learn and excel. Various strategies like TBLT, CLT, and CALL etc. were implemented to equip the students with better communication skills. The factors like lack of motivation, fear, and anxiety are the challenges still need to be addressed. The study was conducted among 120 girl students to equip writing and speaking skills. The results obtained revealed peer interaction, peer correction, student centered teaching yielded better results than the former methods implemented in the ESL classroom.

**KEY WORDS-** Affective factors, Peer involvement, ESL Classroom, Student Centeredness

### Introduction

It is a known fact that the importance of English language is growing day by day as it is the international language of media and arts. It is the most widely used language globally in the fields of politics, business, science and cultural exchange. With an outstanding proficiency, one could seek for even more rewarding and high-end jobs. The factors like international commerce, financial and technological is demanding fluency to communicate in English with the people across the globe. It's clear that globalization is making English language especially important not just for the students in the universities, but in areas such as law, electronics, aviation, computers, medicine, shipping, tourism and entertainment.

At the college level, as English remains a major medium of instruction, the students are paying additional attention to learn and excel. Either to comprehend the latest scientific discoveries which are documented in English or to access any authentic academic material available in the internet, the mere competence on English language is insufficient.



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# Trace element contamination in fruits and vegetables grown in low nutrient availability soil environment by using inductively coupled plasma mass spectrometry

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(Received 13 April, 2020; Accepted 1 June, 2020)

## ABSTRACT

The major concern of the people in the world is food safety and food quality. The significant aspect of food quality and food safety in general is the state of trace element contamination in fruits and vegetables. In this communication the concentration of different elements were determined by using Inductively coupled plasma mass spectrometry (ICP-MS). The various vegetables such as Brinjal (*Solanum melongena*), carrot (*Daucuscarota* subsp. sativus), Tamoto (*Solanum lycopersicum*) cucumber (*Cucumis sativus*) etc and fruits like orange (*Citrus X sinensis*), grape (*Vitis*), apple (*Malus domestica*) and kiwi (*Apteryx*) were grown in low nutrient available soil environment and procured from varied agricultural farms. At low concentration toxic metals can be very harmful when ingested over a long time period. About twenty seven elements were recorded in various fruits and vegetables by using ICP-MS. after microwave digestion, employing only nitric acid in this step. Trace element determination is important for the prevention of different diseases occurred due to the excessive presence in fruits and vegetables.

*Key words:* Trace elements, Absorption spectrometry, Fruits, Vegetables

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## Synthesis and Characterization of Nano-Acetamiprid—New Plant Safeguard Nanomaterial

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DOI: [10.4236/ajac.2020.115015](https://doi.org/10.4236/ajac.2020.115015) PDF HTML XML 589 Downloads 2,009 Views [Citations](#)

### Abstract

In present days many types of materials are used to reduce the environmental pollution in the world which includes nanomaterials. Nanopesticides increase the efficacy, durability and reduction in the amount of active constituent. The potential applications of nanotechnology in pesticides are quick decomposition in soil or plant, targeted delivery, apparent solubility and controlled release. In this communication the author reported a neonicatonoid insecticide called as Nano-acetamiprid and it is widely used to control fungal infections in different crops like cotton, leafy vegetables, citrus fruits, pome etc. The author reported a facile method *i.e.* a new Nano-acetamiprid for plant disease control and its subsequent characterization of encapsulated complex using polycaprolactone as an encapsulated agent. Nano-acetamiprid encapsulated particles were characterized by dynamic light scattering (DLS), ultraviolet spectroscopy and scanning electron microscopy (SEM). To ascertain the formation and the stability of nanoencapsulated acetamiprid pesticide, the maximum absorption spectra formulated at 421 nm and unformulated pesticide at 520 nm were observed. The size distribution was noted at 40 - 50 nm. The bioactivity study was conducted against various *Aspergillus niger*. The

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### Q-HeteLearn: A Progressive Learning approach for Classifying Meta-Paths in Heterogeneous Information Networks

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#### ABSTRACT

Reinforcement learning is a machine learning paradigm which has a number of applications in gaming, stock prediction, robot navigation etc. The reinforcement learning can be applied to complex real-world tasks which have adjustable problem spaces. In this paper a novel approach called Q-HeteLearn a Progressive Learning method is introduced to classify the objects by traversing the meta-paths in the Heterogeneous Information Networks. The proposed approach showed best results when compared to a traditional learning strategy called the Q-Learning and also the comparative study showed a better result with Deep Q-Learning. The concept of Q-HeteLearn which is a Progressive Learning technique is introduced to improve the swift traversal of the objects in the meta-paths and to classify them.

**Keywords:** Reinforcement learning, Q-Learning,

compared with Deep Q-Learning. This paper is organized as follows: In section 2 the literature survey is provided, section 3 the proposed methodology is discussed, section 4 gives the experimentation results and concluded in section 5.

#### 2. LITERATURE SURVEY

The Q-Learning [6]algorithm is one of the reinforcement learning technique and a model free learning strategy. Q-Learning is a policy based approach which tells an agent the next action to be taken at the corresponding circumstances. Q-Learning has many applications one of which includes the addressing of autonomous mobile robot navigation problem[7],in which the authors projected an improved Q-Learning algorithm for the navigation of a robot using a non-repeated state-action trajectory. The



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## Efficient Road Side Framework Placement using VANET for Reducing Network Delays

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### ABSTRACT

The Road Side Unit (RSU) is a transmitter, it is facilitate along with route to us for communication between network surface and vehicles. The RSU is one of the components of VANET (vehicular ad hoc network). In this research paper mainly focused on problem of placement of RSU on road side like highway and also avoids the network delay along with efficient network. For this problem the proposed ERSF (Efficient Road Side Framework) avoid the network delays with help of number linear conceptual model along with optimization network delay and under consideration of network. The ERSF framework has been tested that performance using metrics of Generating Traffic Mobility Patterns (GTMP) by VanetMobiSim. The experimental results comparisons has been shows standard distribution and cost effective reduction is 23% and the network delay is 9% respectively and these results are gives clear definition of efficiency of ERSF solutions.

**KEY WORDS:** GTMP, RSU, ERSF, VANETMOBISIM, NETWORK DELAYS, ROAD SIDE UNIT.

# ARCHIVES

## SLM Technique based on Firefly Algorithm for Reduction of PAPR in OFDM Systems

← Back to Archives

Reddi Sridevi and Dr.T. Madhavi

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Abstract

In communications OFDM method has been broadly received in numerous remote correspondence frameworks because of its high capacity rate of transmission of information and heartiness to the multipath blurring channel. The Peak to average power ratio (PAPR) problem is been addressed from many years and to decrease PAPR in OFDM systems had been primary problem in the transmitter end. One of the promising PAPR decrease strategies is the Selective Mapping strategy (SLM) with some enhancement systems which can accomplish better PAPR execution without flag bending. The current streamlining strategies, for example, Genetic Algorithm system, swarm optimization technique etc have been proposed in the writing to enhance PAPR. In this paper, a new effective PAPR reduction technique is introduced i.e SLM based on Firefly Algorithm (FA) is proposed and compared with the existing algorithms. It is observed that the proposed SLM with FA technique achieves better performance over the existing techniques.

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# Performance Improvement of OFDM Systems by Reducing Papr using SLM-Grasshopper Optimization

Reddi Sridevi, T.Madhavi, Sreenivasulu Ummadisetty

**Abstract:** Orthogonal Frequency Division Multiplexing (OFDM) is an emerging technology which is been most commonly used for transmission of data in wireless based systems. The OFDM technique is capable of achieving more speed i.e it has higher data rate transmission which is reliable and efficient. Peak power is the major drawback while transmitting the signal which is termed as PAPR. The signals achieves high peak value while transmitting due to the presence of large subcarriers which are independent in nature. The amplitude of the signal need to be reduced. Many PAPR reductions schemes have been presented in past and the reduction is done to some extents. In this paper , a new optimisation technique i.e grasshopper optimization (GOA) is proposed. The optimization technique is combined with one of the efficient PAPR reduction technique i.e selective mapping technique. The combination of SLM-Grasshopper help in reducing the PAPR as low as possible and is also compared with other techniques like SLM-GA, SLM-FA and SLM-GWO. The experimental results are performed using matlab.

**Keywords:** ODFM, PAPR, SLM, Grasshopper Algorithm

## I. INTRODUCTION

Orthogonal frequency division multiplexing (OFDM) is a system which have multiple subcarriers and modulation method which looks to be an optimization candidate for fourth

OFDM is due to the quick distortions in the non linear form which adjustments the spectrum signals postions[2]. If no measure is taken to decrease the excessive PAPR, MIMO-OFDM systems ought to face serious restriction for practical functions [3][4].

Complementary cumulative distribution characteristic (CCDF) is used to describe PAPR. The researchers have been developed and proposed probabilistic method positive schemes. These include clipping, coding and sign scrambling techniques. Partial transmit sequence (PTS) and Selected Mapping (SLM) are the two popular schemes under the heading of signal scrambling techniques. Some of the methods that are used to reduce the PAPR are determined and summarized in [5], it is nevertheless indeed wanted to provide some of the strategies that are used to reduce the PAPR has a comprehensive evaluation, such as electricity saving, and to evaluate some typical methods of PAPR discount via theoretical evaluation and simulation effects thoroughly.

Selective mapping method is one of the promising PAPR reduction technique without any distortions in the signals. A new approach of PAPR reduction method is applying genetic optimization to the SLM . GA is applied to SLM-OFDM system, by which the random populations are considered

## **ANALYSIS OF INDIAN NATURAL CHROMITE ORE AND ROCKS BY NUCLEAR ANALYTICAL TECHNIQUE**

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**Received: Jul. 2019 Accepted: Aug. 2019 Published: Sep. 2019**

**Abstract:** A number of Indian chromitites have been studied by using complementary and non-destructive PIXE technique. Thirteen elements including Co, Ni, Cu, Zn, Ga, Zr, Mo, Nb and Pb were established in these chromitites, which may be useful to interpret the various geochemical conditions and the probable cause of their inceptions in chromitite matrix. PIXE technique is a powerful method for fast determination of variable multi elemental analyses. The advantage of this technique is that one can obtain all major and minor elements present at once in pure concentration. The chemical constituents of chromite ores and ultrabasic rocks of Boula, Keonjhar district of Orissa State, India, a part of the Eastern Ghats terrain, were analyzed by using PIXE technique. The present work, thus, establishes the usefulness and versatility of the PIXE technique for research in geo-scientific methodology.



**NUCLEAR ANALYTICAL TECHNIQUE-PIXE,  
A SUITABLE METHOD FOR ELEMENTAL ANALYSIS  
OF CONVENTIONAL TO ADVANCED MATERIALS  
- AN OVERVIEW**

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Received: Jul. 2019 Accepted: Aug. 2019 Published: Sep. 2019

**Abstract:** Particle induced X-ray emission (PIXE) technique has been used for a variety of analytical problems with MeV accelerator. In general, the sample has to be kept inside a high vacuum chamber for analysis by PIXE. To overcome the high vacuum requirement for analysis of large

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## A Cuisine Based Recommender System Using k-NN and Map Reduce Approach

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**Abstract:** In the present days, life can be made smarter, including the food we eat by taking an option from the restaurant recommender systems. In this paper the authors proposed a restaurant recommender system based on the search of user cuisine. The top-k restaurants are identified along with the ratings of the restaurants recommended. The recommendations are retrieved based on the preference of the user cuisines which is an important category which inherently defines the other features, and these features are considered to provide a good service which is the novelty of this paper. Providing recommendations based on user cuisines is the complexity of the problem. The well-known k-Nearest Neighbor algorithm is implemented with the MapReduce paradigm which can quickly process huge amounts of data. Its performance is tested on benchmarked data set and the results are found to be successful.

**Keyword:** Restaurant Recommender System, Nearest Neighbor approach, MapReduce, Cuisine based search.

**Scope of the Article:** Middlayers for Service Based Systems

## A Survey Paper on Sentiment Analysis : Approches, Methods & Challenges

A Survey Paper on Sentiment Analysis : Approches, Methods & Challenges



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**APA Style** Dr.K.Anuradha, Dr.M.Vamsi Krishna, Dr.Banitamani Mallik,Prof.B.P.Mishra.A Survey Paper on Sentiment Analysis : Approches, Methods & Challenges *International Journal of Computer Trends and Technology* , 67(10),25-34.

### Abstract

Sentiment Analysis is the domain of understanding these emotions with software, and it's a must-understand for developers and business leaders in a modern workplace. As with many other fields, advances in Deep Learning have brought Sentiment Analysis into the foreground of cutting-edge algorithms. Today we use natural language processing, statistics, and text analysis to extract, and identify the sentiment of text into positive, negative, or neutral categories. In this paper, an attempt is made to give an overview of different methods available for sentiment analysis, along with different approaches, challenges in sentiment analysis


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RESEARCH ARTICLE

## Three Node Tandem Communication Network Model With Duane Arrival Process Having Phase Type Service

by Kalavala Asish Vardhan, K. Srinivasa Rao, P. Srinivasa Rao



International Journal of Computer Applications  
Foundation of Computer Science (FCS), NY, USA  
Volume 181 - Number 38  
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Kalavala Asish Vardhan, K. Srinivasa Rao, P. Srinivasa Rao . Three Node Tandem Communication Network Model with Duane Arrival Process having Phase Type Service. International Journal of Computer Applications. 181, 38 ( Jan 2019), 30-39. DOI=10.5120/ijca2019918380

### Abstract

This paper introduces a three node Tandem communication network model in which the arrival process follows a Duane process such that the inter arrival times follow Weibull distribution. In this model it is assumed that interarrival times after transmission from first and second nodes are allowed it is further assumed that the inter transmission times in each node follow Poisson process and the transmission

# Design of a Novel Sliding Mode Functional Observer based Load Frequency Controller for Inter Connected Power System

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**Abstract**--- The prime objective of this research paper is to present an innovative Sliding Mode Functional Observer controller for stability of Power System. When the states of the system are not quantifiable for State-Feedback Control, a new operational observer has been designed to estimate the control input directly to substitute the system states. The observer gains can be obtained numerically and the stability can be assured concurrently. The Sliding Type Functional Observer is also capable of reducing the order of the observer. The above mentioned approaches are tested for Load Frequency Control (LFC) problems of highly interconnected system. As the controllers in state estimation process require tie-line powers, the quasi decentralized technique is employed for the LFC problem. As these controllers consider the entire topology of the system they differ from the other traditional controllers. The superiority of Sliding Mode Functional Observer (SMFO) is demonstrated clearly with respect to Proportional Integral based Functional Observer (PIFO) and Functional Observer (FO).

**Keywords**--- Load Frequency Control, Sliding Mode Functional Observer, Functional Observers, Quasi-Decentralized Functional Observers, State Feedback Controller, Leunberger Observer, Interconnected Power Systems.

## I. Introduction

Due to growing complication in interconnected power systems, the LFC scheme plays a very important role using a Proportional Integral Control Strategy [1]-[4]. The control action is generated as an important function of Area Control Error (ACE). LFC is a scheme that keeps the frequency of a network within satisfactory limits regardless of load variations by balancing the power consumption and production. Furthermore, it has competence to bring any deviations (i.e., tie-line power deviations) of the entire power exchange back to zero, amongst interconnected areas. In general, LFC is implemented on selected generation units. Literatures [1] - [3] developed different controllers to a prime-movers for reduce load fluctuation effects and also to meet required power demand. Integral controller [4], proposed to reduce area control error and power deviation in tie-line. Soft computing techniques also proposed [8]-[13] for LFC to minimize power deviation in tie-line. In [2] developed model order reduction technique to reduce the order of LFC and also designed Internal model controller (IMC) controller for reject disturbances for original LFC system. For other methods of LFC, see [14]-[16], and also in [17] suggested





## A Survey of Data Mining Techniques on Information Networks

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## DIAGNOSIS CHILDRENS WITH DYSLEXIA USING MACHINE LEARNING TECHNIQUE

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### Abstract

Worldwide, around 10% of the population has dyslexia.

# IoT Using by Machine learning techniques

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### Abstract

Machine learning is a part of computer science that developed from the study of pattern recognition and computational learning concept in artificial intelligence. Machine learning determines the study and construction of algorithms that can absorb from and make guesses on data. The Internet of Things (IoT) is the network of physical objects or "things" rooted with electronics, software, sensors,





## Implementation of Smart Home Automation with Enhanced Security

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### ABSTRACT

With the surge in usage of power and human population, there is a vital need to conserve electricity in every way possible. The lack of ability to access and control the appliances from remote locations is one of the major reasons for power loss. To overcome this automatic techniques are employed in every aspect of day to day activities. Automation refers to the ability to program and plan a list of events for the devices on the network. The programming may include time-related commands, such as having your lights turn on or off at specific times each day. It can also include non-scheduled events, such as turning on all the lights in your home when your security system alarm is triggered. This paper describes the design and prototype implementation of new home automation system with enhanced security that uses Wi-Fi technology as a network arrangement connecting its parts. The proposed implementation consists of a hardware interface segment, which includes fingerprint sensor, temperature sensor, motion sensor, and camera and provides appropriate interface to sensors and actuators of home automation system. Unlike most of the home automation systems available in the present

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## Implementation of High Speed Double Tail Comparator

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**Keywords:** high speed, positive feedback, analog to digital converter (ADC), digital to analog converter (DAC), threshold, and offset voltage.

