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[Home](#) > [Sustainable Technology and Advanced Computing in Electrical Engineering](#) > [Conference paper](#)

# 'Smart Construction Safety Helmet': a Construction Safety Tool Embedded with Health Monitoring and Salary Deduction Function

[Vikas Suresh](#) & [Raju Narwade](#)

Conference paper | [First Online: 03 November 2022](#)

667 Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 939)

## Abstract

Accidents on-site are most commonly the result of carelessness or a lack of adequate safety



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Paper Submission: 30-March-2024

### A Green Synthesis of Coumarin Derivatives Using Activated Fly Ash as Catalyst

Author(s): [Sunita Jadhao Kharsole](#), [Dr. V. D. Patil](#)

[Abstract](#)

[Authors](#)

[Keywords](#)

[References](#)

[Details](#)

Compounds containing coumarin backbone are a very important group of compounds due to their usage in pharmacy and medicine. Properties and biological activities of coumarin derivatives have a significant role in the development of new drugs. Therefore, many different methods and techniques are developed in order to synthesize coumarin derivatives. Coumarin derivatives could be obtained from different starting materials with various methods but with big differences in yield. Some substituted coumarins have been synthesized by von-Pechmann condensation using Activated Fly Ash as catalyst in ethanolic medium. The reactions are simple, easy in handling and environmentally benign.



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Volume 9 | Issue 7 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X (www.ijsrst.com)

## A Green Synthesis of Coumarin Derivatives Using Activated Fly Ash as Catalyst

Sunita Jadhao Khansole<sup>1</sup>, Dr. V. D. Patil<sup>2</sup>

<sup>1</sup>Department of Applied Chemistry, Pillai College of Engineering and Technology, Rasayani Raigad, Maharashtra, India

<sup>2</sup>Department of Chemistry, C.K.Thakur ACS College, Khanda Colony, New Panvel(W) Raigad, Maharashtra, India

### ABSTRACT

Compounds containing coumarin backbone are a very important group of compounds due to their usage in pharmacy and medicine. Properties and biological activities of coumarin derivatives have a significant role in the development of new drugs. Therefore, many different methods and techniques are developed in order to synthesize coumarin derivatives. Coumarin derivatives could be obtained from different starting materials with various methods but with big differences in yield. Some substituted coumarins have been synthesized by von-Pechmann condensation using Activated Fly Ash as catalyst in ethanolic medium. The reactions are simple, easy in handling and environmentally benign.

**Keywords:** Coumarin von-Pechmann condensation Activated Fly Ash

### I. INTRODUCTION

Coumarins constitute an important class of compound due to their presence as an important constituent of natural products [1] as well as their variety of medicinal applications such as anti-inflammatory [2], anti-convulsant [3], anti-viral [4], anticoagulant [5], antioxidant [6], antibacterial [7], antifungal [8], anti-HIV [9], anti-carcinogenic material [10] and as antihistamine [11]. Besides the wide spectrum biological applications of coumarin and its derivatives the chemical literature also embodies their some applications from the material

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/ Vol. 1 No. 3 (2022): Proceedings of the 12th Structural Engineering Convention, SEC 2022: Theme 6 |

Editors: M K Shrimali, S D Bharti, M Abdeddaim, A Benchabane

/ Articles

# Mitigating Structural Vibrations due to Earthquake with Application of Slope Bottom Tuned Liquid Dampers



**G. R. Patil**

Department of Civil Engineering, Research Scholar, Indian Institute of Technology, Guwahati, Assam, India

**K. D. Singh**

Department of Civil Engineering, Professor, Indian Institute of Technology, Guwahati, Assam, India

**B. Nanda**

Department of Civil Engineering, Assistant Professor, Veer Surendra Sai University of Technology Burla, Orissa, India

Conferences > 2022 International Conference...

## Harmonic Elimination with Multilevel Inverter Based Hybrid Filter Using Artificial Intelligence Approach

Publisher: **IEEE**

[Cite This](#)

[PDF](#)

Pranita Chavan ; B. R. Patil [All Authors](#)

49

Full

Text Views



### Abstract

Document Sections

I. Introduction

II. Description of the Proposed System

### Abstract:

Harmonics in the distribution system are caused by the fast growth of nonlinear loads based on power electronics. Harmonics reduce the quality of the power and the effectiveness of the power system. As a result, getting rid of it is crucial. This study evaluates a hybrid filter based on a cascaded H-bridge multilevel inverter for decreasing source current harmonics in a high-voltage system. The hybrid filter topology includes a double-tuned passive filter and a cascaded H-bridge MLI-based active filter in a shunt at the point of common coupling. To

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# Antennas in Airborne Applications

Publisher: IEEE

Cite This

PDF

Aamir Shaikh ; Manjusha Joshi **All Authors**

77

Full

Text Views



## Abstract

Document Sections

I. Introduction

II. Dynamics of UAV

III. Antennas



## Abstract:

This paper gives an overview of various types of antennas used in airborne applications such as delivery using UAVs, defence, disaster management. Antenna characteristics are very sensitive and must be used before implementing in airborne applications. Because of different nature of aerial body on which antennas are mounted, different antenna positions will result in variations in the radiation pattern. In recent studies, researcher considers antenna positioning with respect to azimuth and elevation angles. Effect of aerial body on antenna, its signal

# Dynamic Load balancing in SDN using Energy Aware Routing and Optimization Algorithm

Publisher: IEEE

Cite This

PDF

Javesh Dafda ; Mansi Subhedar **All Authors**

152

Full

Text Views



## Abstract

Document Sections

I. Introduction

II. Related Work



## Abstract:

In software defined networking, load balancing is a crucial management operation for moving traffic packets from source to destination. Ant Colony Optimization (ACO) was employed with dynamic load balancing to enhance SDN performance in existing works. In order to improve the search for the ideal path, response time, span-time, and energy consumption, it is proposed in this article to employ energy-aware routing with a Genetic Algorithm (GA) and

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# Ecofriendly Synthesis of Pyridine Derivatives Using Activated Fly Ash as an Efficient and Reusable Catalyst

Sunita Jadhao Khansole

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E-mail: sunitakhansole@gmail.com.

**Abstract:** Synthesis of imidazo [1, 2-a] pyridines derivatives were reported from 2-aminopyridine and various substituted phenacyl bromide using Activated Fly Ash as an efficient, eco-friendly, and reusable catalyst. The present protocol offers various advantages, such as the use of less hazardous solvent, high yield, and operationally simple procedure.

**Index Terms:** Activated Fly Ash, imidazo [1, 2-a] pyridines; 2-amino pyridine; phenacyl bromides.

## I. INTRODUCTION

Fused heterocyclic compounds containing nitrogen have received considerable attention due to their wide biological activities (Heravi, M.M,2015). Imidazo [1, 2-a] pyridine scaffolds are more attractive due to their applications in pharmaceuticals such as antiviral(Gueiffier,1998; Lhassani, M.,2010; Chaouni-Benabdallah,2001), antibacterial(Lv, K.; Li, 2017).

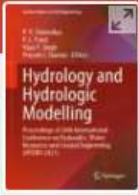
various catalyst which includes iodine(Xing, M.-M,2016) hypervalent iodine(Huang, H.-Y,2004), SnCl<sub>2</sub>(Shaabani, A, 2009),MgO(Patil, S.V,2016), gold(Talbot, E.P.A,2014), copper NPs(Sun, W,2018), Pd(II)( Wang, Y,2014), DBU(Veer, B,2019), DABCO(Murthy,S.N,2010). Non-conventional heating methods, which include microwave(Mert-Balci,F,2012),grinding(Zhu,D,2009), and ultrasound(Vieira, B.M,2019), are also successfully reported. However, these reported methodologies suffer from some drawbacks like high temperatures, long reaction times, and toxic metal catalysts, expensive, harmful reagents, and solvents. Despite these efforts, it is still a challenge to synthesize the functionalized Imidazo [1, 2-a] pyridines from the readily available starting materials.

In continuation of our previous work here, we employed copper Activated Fly Ash as a heterogeneous catalyst to develop a rapid and efficient process for the synthesis of

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International Conference on Hydraulics, Water Resources and Coastal Engineering

↳ HYDRO 2021: **Hydrology and Hydrologic Modelling** pp 123-140 | [Cite as](#)

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# Impact Assessment of Climate Change on Hydrological Parameters: Evaluation of Water Balance Components of a River Basin

[Raju Narwade](#)  & [S. K. Ukarande](#)

Conference paper | [First Online: 01 May 2023](#)

**199** Accesses

Part of the [Lecture Notes in Civil Engineering](#) book series (LNCE, volume 312)

## Abstract

In recent years, climate change has become a big concern over the world. Global warming and

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Chapter

## A Diagnostic Classifier for Prediction of Vitamin and Mineral Deficiency Based on Symptoms and Profiling Its Impact During Pregnancy

January 2022

DOI: [10.1007/978-3-030-84760-9\\_31](#)

In book: Second International Conference on Image Processing and Capsule Networks (pp.356-369)

Authors:




Sawant Rupali



Bakal Jagdish



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**Mobile Computing and Sustainable Informatics** pp 161–170 | [Cite as](#)

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# Investigating the Role of User Experience and Design in Recommender Systems: A Pragmatic Review

[Ajay Dhruv](#)  & [J. W. Bakal](#)

Conference paper | [First Online: 23 July 2021](#)

**967** Accesses

Part of the [Lecture Notes on Data Engineering and Communications Technologies](#) book series (LNDECT, volume 68)

## Abstract

The world is growing smarter with technology-driven applications in assisting lifestyle of

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# Dematerializing Vehicle Documents with IoT—Effective Solution Using Existing Infrastructure

[Namrata Thorve](#) & [Mansi Subhedar](#) 

Conference paper | [First Online: 15 May 2022](#)

**307** Accesses

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1424)

## Abstract

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Identification, safety and impact of vehicle on the surroundings depend upon the vehicle documents like its license, PUC, RC book, insurance papers, etc. This work aims to build a system for dematerialization of vehicle documents using IoT infrastructure. This system will make that all the documents are available with us all the time and are stored securely. Also, the documents can be checked for renewals and notification can be sent to the concerned



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# Vehicle antitheft mechanism using IoT

Namrata Thorve, Mansi Subhedar  

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<https://doi.org/10.1016/j.matpr.2022.07.135> 

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## Abstract

Standard of living has made vehicles an integral part of our life. Vehicles are not just used for transportation but they are used for commuting. Vehicles provide comfort, fast and hassle-free journey but at the same time, lack of parking spaces, and absence of effective antitheft architecture make this commuting an irksome

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# Particle Swarm Optimization-Based Neural Network for Wireless Heterogeneous Networks

[Divya Y. Chirayil](#) 

Conference paper | [First Online: 31 March 2022](#)

**626** Accesses

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1420)

## Abstract

The heterogeneous wireless network aims to maintain improved mobility and communication among the wide area network always. Therefore, VHO is very much required. This proposed work introduces vertical VHO that is context-aware in heterogeneous sector. Better handover is generated from an enhanced determination of handover points. Particle swarm optimization neural network is proposed for better handover points and improving receiver signal strength in wireless network.

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# Design of Cost-Effective Bamboo Reinforced Manhole Cover; A Step Toward Sustainable Development

[Shilpa Kewate](#) , [Manisha Jamgade](#) & [Madhulika Sinha](#)

Conference paper | [First Online: 04 May 2022](#)

**579** Accesses | **1** Citations

Part of the [Lecture Notes in Mechanical Engineering](#) book series (LNME)

## Abstract

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In India, many open Manholes have been death traps for pedestrians, especially during monsoon. Steel reinforced manhole cover and mild steel manhole cover have a good resale value due to which these Manhole covers are in danger of being stolen it may cause accidents due to open Manhole left on the road. This may harm the lives of the public and animals walking on roads. This research work aims to design an environment-friendly sustainable manhole cover by using bamboo as an alternative material to steel. This newly developed product is cost-effective. In this paper, experimental testing for load resisting capacity as per IS (5) of a bamboo reinforced Manhole cover and steel-reinforced Manhole cover is carried out.



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# A Life Cycle Analysis Based Framework to Promote Circular Economy in the Building Sector

[J. S. Smitha](#) & [Albert Thomas](#) 

Chapter | [First Online: 25 April 2022](#)

**668** Accesses

Part of the [Lecture Notes in Civil Engineering](#) book series (LNCE,volume 221)

## Abstract

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Buildings are resource intensive as they need large amounts of natural resources thereby resulting in resource depletion as well as corresponding environmental emissions. In addition, the material waste generated by the demolition of buildings has severe environmental impacts. Circular economy is a concept that is successfully implemented in various sectors to promote recycling of key materials, and life cycle analysis is a useful technique employed for calculating the environmental implications of various processes. However, there are very few approaches that analyze the life cycle impacts and circularity potential of materials used in the




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# Context-Aware Handover Analysis in Heterogenous Wireless Network Using Machine Learning

[Divya Parambanchary](#) & [V. Malleswara Rao](#) 

Conference paper | [First Online: 05 March 2021](#)

**132** Accesses | **1** Citations

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

The speedy development of wireless access mechanisms offers the mobility management and better interoperability methods to accomplish the necessities of users. Nowadays, heterogeneous wireless networks construct a variety of networks of diverse types namely WiFi, WIMAX to offer the users the required signals. These networks are independent, and they differ comprehensively with respect to the service constraints namely, accessing delay, the area of coverage, throughput, etc. the experimental analysis of various modeling system for handover performance is demonstrated. Here, the performance of NN-based vertical handover



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# A Whale Optimization Algorithm for Pollution Monitoring in WSN

[Harshala Patil](#)  & [Divya Chirayil](#)

Conference paper | [First Online: 05 March 2021](#)

117 Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

Wireless sensor network's (WSN) primary concern is how to manage their restricted power resources. The efficiency of WSN depends heavily on its life span. As a consequence, several studies have drawn attention to dynamic power management methods to reduce energy use in sensor nodes after creation and network layout. Recently, there has been a powerful interest in using smart instruments, particularly whale optimization algorithm of neural networks in WSN's energy-efficient method. Because of their network lifetime, energy efficiency, throughput and overall stability, he dimensionality and forecasting of sensor data obtained




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# Developing a Sustainable and Economical Infrastructure for the Implementation of IoT in Agriculture

[Akshayee Bharat Dhule](#), [Divya Y. Chirayil](#)  & [Suraj Pandharinath Takekar](#)

Conference paper | [First Online: 05 March 2021](#)

132 Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

This paper acknowledges the importance of measuring the various environmental parameters and discusses the importance of IoT dashboards which will display the data graphically with the help of beautiful widgets. This paper also introduces IoT as an essential part that should be used in farm practices and not as a status symbol which only the rich farmers can afford on their farm. This paper is not restricted to a prototype but focuses on the development of a realistic IoT product which will find its way in every farmland owing to its importance, easy

# Privacy-Preserving Outsourced Mining of D-Eclat Association Rules on Vertically Partitioned Databases

Publisher: **IEEE**

[Cite This](#)

[PDF](#)

[Suvarna Kisan Thakur](#); [Babita Bhagat](#); [Srijita Bhattacharjee](#) **All Authors**

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## Abstract

Document Sections

I. Introduction

II. Literature Review

## Abstract:

Association rule mining and frequent item set mining are extensively studied information analysis techniques for a number of programs. In this paper, we have highlighted privacy preserving mining on vertically partitioned databases. In such a state of affairs, information owners desire to research the association policies or frequent item sets from a collective dataset, and reveal as meager information concerning their delicate information as conceivable to different statistics owners and outsiders. To ensure information security, we

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# Developing a Sustainable and Economical Infrastructure for the Implementation of IoT in Agriculture

[Akshayee Bharat Dhule](#), [Divya Y. Chirayil](#)  & [Suraj Pandharinath Takekar](#)

Conference paper | [First Online: 05 March 2021](#)

**132** Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

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This paper acknowledges the importance of measuring the various environmental parameters and discusses the importance of IoT dashboards which will display the data graphically with the help of beautiful widgets. This paper also introduces IoT as an essential part that should be used in farm practices and not as a status symbol which only the rich farmers can afford on their farm. This paper is not restricted to a prototype but focuses on the development of a realistic IoT product which will find its way in every farmland owing to its importance, easy operation, and affordability.

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# Person Authentication Using EEG Signal that Uses Chirplet and SVM

[Sonal Suhas Shinde](#)  & [Swati S. Kamthekar](#)

Conference paper | [First Online: 07 January 2020](#)

**1766** Accesses

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1108)

## Abstract

The brain wave signal which is result of neurons activity basically used for authentication due to its benefits over traditional biometric system. However lots of work has been done in brainwave based authentication, also numerous pre-processing, numbers of features were extracted and different classification methods have been investigated for authentication system. This study focuses on EEG (Electroencephalography) signal authentication with excellent precision. This paper consist of identification and authentication of human based on the EEG signal, here the database is used which consist of EEG signal of 29 subject and five trail of each subject. The transform named as Chirplet is used for extraction of the feature and



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# CCS Combined with Geothermal Energy Generation— Hybrid Geothermal Energy Concept

[Nandlal Gupta](#)  & [Manvendra Vashistha](#)

Conference paper | [First Online: 01 May 2020](#)

**534** Accesses

Part of the [Springer Proceedings in Energy](#) book series (SPE)

## Abstract

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India has 400 thermal springs owing the potential of generating more than 10600 MW of electricity in the form of geothermal energy. Even after such a huge potential, the Indian geothermal energy landscape is still underrepresented compared to the rest of the nations in the world. Geothermal springs are most clean, reliable, and almost CO<sub>2</sub>-free electricity production thereby mitigating the increasing CO<sub>2</sub> concentration in the Indian environment

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# Smart Apron Using Embroidered Textile Fractal Antenna for E-Health Monitoring System

[Shruti Gite](#)  & [Mansi Subhedar](#)

Conference paper | [First Online: 08 September 2020](#)

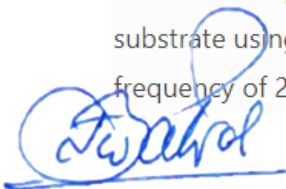
**1164** Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 672)

## Abstract

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The rapid advances in the wireless communication field have given a new dimension to antenna design. This paper is envisioned to design a wearable textile antenna for healthcare and medical applications. The proposed antenna is being embroidered on a polyester substrate using conductive stainless steel thread. The antenna is designed at operating frequency of 2.4 GHz (ISM band) used for industrial and medical field. The proposed antenna



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Conference Paper

## Performance Analysis of Computer Aided Brain Tumour Detection using Framelet Transform and KNN

August 2019

Conference: International Conference on Machine Learning, Image Processing, Network Security and Data Sciences

**Authors:**



**Ankita Patil**



**Mansi Subhedar**

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[Home](#) > [Recent Trends in Image Processing and Pattern Recognition](#) > Conference paper

## Pathological Brain Tumour Detection Using Ridgelet Transform and SVM

[Patil Ankita](#) & [Mansi Subhedar](#)

Conference paper | [First Online: 16 July 2019](#)

**562** Accesses

Part of the [Communications in Computer and Information Science](#) book series (CCIS, volume 1036)

### Abstract

The identification, detection and classification of brain MRI images into abnormal and healthful is a main pre-clinical step for patients. Standard classification is tedious, valuable, inimitable, and time consuming. Using simple imaging techniques, it is very difficult to have vision about the normal and tumour cell due to the similarities between them. The proposed brain tumour detection method employs ridgelet transform and SVM to identify malignant

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## Research on shear strength of geopolymer concrete by using fly ash

To cite this article: Sachin A. Daur and Madhulika Sinha 2022 *IOP Conf. Ser.: Earth Environ. Sci.* **1032** 012048

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1032 (2022) 012048

doi:10.1088/1755-1315/1032/1/012048

## Research on shear strength of geopolymer concrete by using fly ash

Sachin A. Daur<sup>1,a</sup>, Madhulika Sinha<sup>1,b</sup>

<sup>1</sup>Construction Management @P H C E T Engineering College, Rasayani, New Mumbai, India

<sup>2</sup>Professor @P H C E T Engineering College, Rasayani, New Mumbai, India.

Email: [sachindaur13@gmail.com](mailto:sachindaur13@gmail.com); [madhulikas@mes.ac.in](mailto:madhulikas@mes.ac.in)

**Abstract:** Cement is one of the most important construction materials. Cement is a backbone of civil engineering work. Development of whole world depends upon increasing infrastructure. For which cement is very necessary. Manufacturing of cement produce huge amount of carbon di-oxide and other greenhouse gases which is hazardous to the environment causes pollution. Hence it is very necessary to develop alternative binding material instead of cement for construction. Many researchers contribute their work on replacement of cement in concrete.

**Keywords:** Geopolymer, Fly ash, Alkaline solution, Compressive strength, Shear strength.

### 1. Introduction

Ash-based geopolymer concrete is a major change in the construction and concrete industry in the use of Portland cement and 100% cement material is an industrial product, i.e., fly ash. The adoption of fly-based concrete is an efficient use of the world's largest ash-filled flies as a result of coal-fired power plants.

In structural and mechanical engineering, the shear strength of a component is important in designing the size and materials to be used in the construction or construction of the component. In a reinforced concrete line, the main purpose of reinforcing bar stirrups is to increase the shear strength.

Cement is one of the most widely used materials in the world. It is an important ingredient in products such as concrete. Over the past decades, more research has been done to replace cement in concrete with fly ash and industrial products such as ash ash (FA) and ground granulated blast furnace slag

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# Optimizing MPLS Tunnel Creation Performance by Using SDN

[Snehal Patil](#) & [Mansi S. Subhedar](#) 

Conference paper | [First Online: 14 February 2019](#)

**720** Accesses | **1** Citations

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 898)

## Abstract

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In today's world, many high-speed enterprise links are running on MPLS. For enterprises, it is not possible to migrate to SDN technology directly and smooth transition of MPLS networks onto SDN needs to be ensured. This paper aims at optimizing the MPLS performance by coupling it with SDN. SDN controller uses some features of MPLS-TE to read network statistics. Based on the input of OSPF extension headers, SDN will reroute the traffic whenever there is



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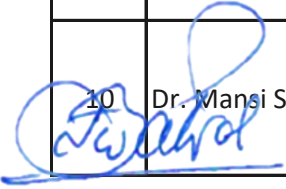
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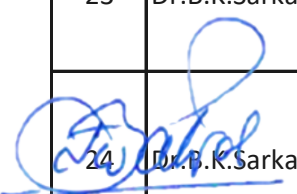
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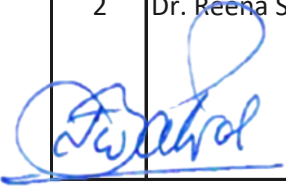
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[Vikas Suresh](#) & [Raju Narwade](#)

Conference paper | [First Online: 03 November 2022](#)

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## Abstract

Accidents on-site are most commonly the result of carelessness or a lack of adequate safety



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### A Green Synthesis of Coumarin Derivatives Using Activated Fly Ash as Catalyst

Author(s): [Sunita Jadhao Kharsole](#), [Dr. V. D. Patil](#)

[Abstract](#)

[Authors](#)

[Keywords](#)

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Compounds containing coumarin backbone are a very important group of compounds due to their usage in pharmacy and medicine. Properties and biological activities of coumarin derivatives have a significant role in the development of new drugs. Therefore, many different methods and techniques are developed in order to synthesize coumarin derivatives. Coumarin derivatives could be obtained from different starting materials with various methods but with big differences in yield. Some substituted coumarins have been synthesized by von-Pechmann condensation using Activated Fly Ash as catalyst in ethanolic medium. The reactions are simple, easy in handling and environmentally benign.



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## A Green Synthesis of Coumarin Derivatives Using Activated Fly Ash as Catalyst

Sunita Jadhao Khansole<sup>1</sup>, Dr. V. D. Patil<sup>2</sup>

<sup>1</sup>Department of Applied Chemistry, Pillai College of Engineering and Technology, Rasayani Raigad, Maharashtra, India

<sup>2</sup>Department of Chemistry, C.K.Thakur ACS College, Khanda Colony, New Panvel(W) Raigad, Maharashtra, India

### ABSTRACT

Compounds containing coumarin backbone are a very important group of compounds due to their usage in pharmacy and medicine. Properties and biological activities of coumarin derivatives have a significant role in the development of new drugs. Therefore, many different methods and techniques are developed in order to synthesize coumarin derivatives. Coumarin derivatives could be obtained from different starting materials with various methods but with big differences in yield. Some substituted coumarins have been synthesized by von-Pechmann condensation using Activated Fly Ash as catalyst in ethanolic medium. The reactions are simple, easy in handling and environmentally benign.

**Keywords:** Coumarin von-Pechmann condensation Activated Fly Ash

### I. INTRODUCTION

Coumarins constitute an important class of compound due to their presence as an important constituent of natural products [1] as well as their variety of medicinal applications such as anti-inflammatory [2], anti-convulsant [3], anti-viral [4], anticoagulant [5], antioxidant [6], antibacterial [7], antifungal [8], anti-HIV [9], anti-carcinogenic material [10] and as antihistamine [11]. Besides the wide spectrum biological applications of coumarin and its derivatives the chemical literature also embodies their some applications from the material

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Editors: M K Shrimali, S D Bharti, M Abdeddaim, A Benchabane

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# Mitigating Structural Vibrations due to Earthquake with Application of Slope Bottom Tuned Liquid Dampers



**G. R. Patil**

Department of Civil Engineering, Research Scholar, Indian Institute of Technology, Guwahati, Assam, India

**K. D. Singh**

Department of Civil Engineering, Professor, Indian Institute of Technology, Guwahati, Assam, India

**B. Nanda**

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## Harmonic Elimination with Multilevel Inverter Based Hybrid Filter Using Artificial Intelligence Approach

Publisher: **IEEE**

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Pranita Chavan ; B. R. Patil [All Authors](#)

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Text Views



### Abstract

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I. Introduction

II. Description of the Proposed System

### Abstract:

Harmonics in the distribution system are caused by the fast growth of nonlinear loads based on power electronics. Harmonics reduce the quality of the power and the effectiveness of the power system. As a result, getting rid of it is crucial. This study evaluates a hybrid filter based on a cascaded H-bridge multilevel inverter for decreasing source current harmonics in a high-voltage system. The hybrid filter topology includes a double-tuned passive filter and a cascaded H-bridge MLI-based active filter in a shunt at the point of common coupling. To

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# Antennas in Airborne Applications

Publisher: IEEE

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Aamir Shaikh ; Manjusha Joshi **All Authors**

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Text Views



## Abstract

Document Sections

I. Introduction

II. Dynamics of UAV

III. Antennas



## Abstract:

This paper gives an overview of various types of antennas used in airborne applications such as delivery using UAVs, defence, disaster management. Antenna characteristics are very sensitive and must be used before implementing in airborne applications. Because of different nature of aerial body on which antennas are mounted, different antenna positions will result in variations in the radiation pattern. In recent studies, researcher considers antenna positioning with respect to azimuth and elevation angles. Effect of aerial body on antenna, its signal

# Dynamic Load balancing in SDN using Energy Aware Routing and Optimization Algorithm

Publisher: IEEE

Cite This

PDF

Javesh Dafda ; Mansi Subhedar **All Authors**

152

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Text Views



## Abstract

Document Sections

I. Introduction

II. Related Work



## Abstract:

In software defined networking, load balancing is a crucial management operation for moving traffic packets from source to destination. Ant Colony Optimization (ACO) was employed with dynamic load balancing to enhance SDN performance in existing works. In order to improve the search for the ideal path, response time, span-time, and energy consumption, it is proposed in this article to employ energy-aware routing with a Genetic Algorithm (GA) and

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# Ecofriendly Synthesis of Pyridine Derivatives Using Activated Fly Ash as an Efficient and Reusable Catalyst

Sunita Jadhao Khansole

Department of Applied Chemistry, Pillai HOC College of Engineering and Technology, Rasayani Raigad, Maharashtra, 410207, India.  
E-mail: sunitakhansole@gmail.com.

**Abstract:** Synthesis of imidazo [1, 2-a] pyridines derivatives were reported from 2-aminopyridine and various substituted phenacyl bromide using Activated Fly Ash as an efficient, eco-friendly, and reusable catalyst. The present protocol offers various advantages, such as the use of less hazardous solvent, high yield, and operationally simple procedure.

**Index Terms:** Activated Fly Ash, imidazo [1, 2-a] pyridines; 2-amino pyridine; phenacyl bromides.

## I. INTRODUCTION

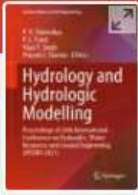
Fused heterocyclic compounds containing nitrogen have received considerable attention due to their wide biological activities (Heravi, M.M,2015). Imidazo [1, 2-a] pyridine scaffolds are more attractive due to their applications in pharmaceuticals such as antiviral(Gueiffier,1998; Lhassani, M.,2010; Chaouni-Benabdallah,2001), antibacterial(Lv, K.; Li, 2017).

various catalyst which includes iodine(Xing, M.-M,2016) hypervalent iodine(Huang, H.-Y,2004), SnCl<sub>2</sub>(Shaabani, A, 2009),MgO(Patil, S.V,2016), gold(Talbot, E.P.A,2014), copper NPs(Sun, W,2018), Pd(II)( Wang, Y,2014), DBU(Veer, B,2019), DABCO(Murthy,S.N,2010). Non-conventional heating methods, which include microwave(Mert-Balci,F,2012),grinding(Zhu,D,2009), and ultrasound(Vieira, B.M,2019), are also successfully reported. However, these reported methodologies suffer from some drawbacks like high temperatures, long reaction times, and toxic metal catalysts, expensive, harmful reagents, and solvents. Despite these efforts, it is still a challenge to synthesize the functionalized Imidazo [1, 2-a] pyridines from the readily available starting materials.

In continuation of our previous work here, we employed copper Activated Fly Ash as a heterogeneous catalyst to develop a rapid and efficient process for the synthesis of

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# Impact Assessment of Climate Change on Hydrological Parameters: Evaluation of Water Balance Components of a River Basin

[Raju Narwade](#)  & [S. K. Ukarande](#)

Conference paper | [First Online: 01 May 2023](#)

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Part of the [Lecture Notes in Civil Engineering](#) book series (LNCE, volume 312)

## Abstract

In recent years, climate change has become a big concern over the world. Global warming and

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Chapter

## A Diagnostic Classifier for Prediction of Vitamin and Mineral Deficiency Based on Symptoms and Profiling Its Impact During Pregnancy

January 2022

DOI: [10.1007/978-3-030-84760-9\\_31](#)

In book: Second International Conference on Image Processing and Capsule Networks (pp.356-369)

Authors:




Sawant Rupali



Bakal Jagdish



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**Mobile Computing and Sustainable Informatics** pp 161–170 | [Cite as](#)

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# Investigating the Role of User Experience and Design in Recommender Systems: A Pragmatic Review

[Ajay Dhruv](#)  & [J. W. Bakal](#)

Conference paper | [First Online: 23 July 2021](#)

**967** Accesses

Part of the [Lecture Notes on Data Engineering and Communications Technologies](#) book series (LNDECT, volume 68)

## Abstract

The world is growing smarter with technology-driven applications in assisting lifestyle of

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# Dematerializing Vehicle Documents with IoT—Effective Solution Using Existing Infrastructure

[Namrata Thorve](#) & [Mansi Subhedar](#) 

Conference paper | [First Online: 15 May 2022](#)

**307** Accesses

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1424)

## Abstract

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Identification, safety and impact of vehicle on the surroundings depend upon the vehicle documents like its license, PUC, RC book, insurance papers, etc. This work aims to build a system for dematerialization of vehicle documents using IoT infrastructure. This system will make that all the documents are available with us all the time and are stored securely. Also, the documents can be checked for renewals and notification can be sent to the concerned




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# Vehicle antitheft mechanism using IoT

Namrata Thorve, Mansi Subhedar  

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<https://doi.org/10.1016/j.matpr.2022.07.135> 

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## Abstract

Standard of living has made vehicles an integral part of our life. Vehicles are not just used for transportation but they are used for commuting. Vehicles provide comfort, fast and hassle-free journey but at the same time, lack of parking spaces, and absence of effective antitheft architecture make this commuting an irksome

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# Particle Swarm Optimization-Based Neural Network for Wireless Heterogeneous Networks

[Divya Y. Chirayil](#) 

Conference paper | [First Online: 31 March 2022](#)

**626** Accesses

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1420)

## Abstract

The heterogeneous wireless network aims to maintain improved mobility and communication among the wide area network always. Therefore, VHO is very much required. This proposed work introduces vertical VHO that is context-aware in heterogeneous sector. Better handover is generated from an enhanced determination of handover points. Particle swarm optimization neural network is proposed for better handover points and improving receiver signal strength in wireless network.

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# Design of Cost-Effective Bamboo Reinforced Manhole Cover; A Step Toward Sustainable Development

[Shilpa Kewate](#) , [Manisha Jamgade](#) & [Madhulika Sinha](#)

Conference paper | [First Online: 04 May 2022](#)

**579** Accesses | **1** Citations

Part of the [Lecture Notes in Mechanical Engineering](#) book series (LNME)

## Abstract

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In India, many open Manholes have been death traps for pedestrians, especially during monsoon. Steel reinforced manhole cover and mild steel manhole cover have a good resale value due to which these Manhole covers are in danger of being stolen it may cause accidents due to open Manhole left on the road. This may harm the lives of the public and animals walking on roads. This research work aims to design an environment-friendly sustainable manhole cover by using bamboo as an alternative material to steel. This newly developed product is cost-effective. In this paper, experimental testing for load resisting capacity as per IS (5) of a bamboo reinforced Manhole cover and steel-reinforced Manhole cover is carried out.



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# A Life Cycle Analysis Based Framework to Promote Circular Economy in the Building Sector

[J. S. Smitha](#) & [Albert Thomas](#) 

Chapter | [First Online: 25 April 2022](#)

**668** Accesses

Part of the [Lecture Notes in Civil Engineering](#) book series (LNCE,volume 221)

## Abstract

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Buildings are resource intensive as they need large amounts of natural resources thereby resulting in resource depletion as well as corresponding environmental emissions. In addition, the material waste generated by the demolition of buildings has severe environmental impacts. Circular economy is a concept that is successfully implemented in various sectors to promote recycling of key materials, and life cycle analysis is a useful technique employed for calculating the environmental implications of various processes. However, there are very few approaches that analyze the life cycle impacts and circularity potential of materials used in the




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# Context-Aware Handover Analysis in Heterogenous Wireless Network Using Machine Learning

[Divya Parambanchary](#) & [V. Malleswara Rao](#) 

Conference paper | [First Online: 05 March 2021](#)

**132** Accesses | **1** Citations

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

The speedy development of wireless access mechanisms offers the mobility management and better interoperability methods to accomplish the necessities of users. Nowadays, heterogeneous wireless networks construct a variety of networks of diverse types namely WiFi, WIMAX to offer the users the required signals. These networks are independent, and they differ comprehensively with respect to the service constraints namely, accessing delay, the area of coverage, throughput, etc. the experimental analysis of various modeling system for handover performance is demonstrated. Here, the performance of NN-based vertical handover



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# A Whale Optimization Algorithm for Pollution Monitoring in WSN

[Harshala Patil](#)  & [Divya Chirayil](#)

Conference paper | [First Online: 05 March 2021](#)

117 Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

Wireless sensor network's (WSN) primary concern is how to manage their restricted power resources. The efficiency of WSN depends heavily on its life span. As a consequence, several studies have drawn attention to dynamic power management methods to reduce energy use in sensor nodes after creation and network layout. Recently, there has been a powerful interest in using smart instruments, particularly whale optimization algorithm of neural networks in WSN's energy-efficient method. Because of their network lifetime, energy efficiency, throughput and overall stability, he dimensionality and forecasting of sensor data obtained



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# Developing a Sustainable and Economical Infrastructure for the Implementation of IoT in Agriculture

[Akshayee Bharat Dhule](#), [Divya Y. Chirayil](#)  & [Suraj Pandharinath Takekar](#)

Conference paper | [First Online: 05 March 2021](#)

132 Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

This paper acknowledges the importance of measuring the various environmental parameters and discusses the importance of IoT dashboards which will display the data graphically with the help of beautiful widgets. This paper also introduces IoT as an essential part that should be used in farm practices and not as a status symbol which only the rich farmers can afford on their farm. This paper is not restricted to a prototype but focuses on the development of a realistic IoT product which will find its way in every farmland owing to its importance, easy

# Privacy-Preserving Outsourced Mining of D-Eclat Association Rules on Vertically Partitioned Databases

Publisher: **IEEE**

[Cite This](#)

[PDF](#)

[Suvarna Kisan Thakur](#); [Babita Bhagat](#); [Srijita Bhattacharjee](#) **All Authors**

98

Full

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## Abstract

Document Sections

I. Introduction

II. Literature Review

## Abstract:


Association rule mining and frequent item set mining are extensively studied information analysis techniques for a number of programs. In this paper, we have highlighted privacy preserving mining on vertically partitioned databases. In such a state of affairs, information owners desire to research the association policies or frequent item sets from a collective dataset, and reveal as meager information concerning their delicate information as conceivable to different statistics owners and outsiders. To ensure information security, we

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# Developing a Sustainable and Economical Infrastructure for the Implementation of IoT in Agriculture

[Akshayee Bharat Dhule](#), [Divya Y. Chirayil](#)  & [Suraj Pandharinath Takekar](#)

Conference paper | [First Online: 05 March 2021](#)

**132** Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 700)

## Abstract

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This paper acknowledges the importance of measuring the various environmental parameters and discusses the importance of IoT dashboards which will display the data graphically with the help of beautiful widgets. This paper also introduces IoT as an essential part that should be used in farm practices and not as a status symbol which only the rich farmers can afford on their farm. This paper is not restricted to a prototype but focuses on the development of a realistic IoT product which will find its way in every farmland owing to its importance, easy operation, and affordability.

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# Person Authentication Using EEG Signal that Uses Chirplet and SVM

[Sonal Suhas Shinde](#)  & [Swati S. Kamthekar](#)

Conference paper | [First Online: 07 January 2020](#)

**1766** Accesses

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1108)

## Abstract

The brain wave signal which is result of neurons activity basically used for authentication due to its benefits over traditional biometric system. However lots of work has been done in brainwave based authentication, also numerous pre-processing, numbers of features were extracted and different classification methods have been investigated for authentication system. This study focuses on EEG (Electroencephalography) signal authentication with excellent precision. This paper consist of identification and authentication of human based on the EEG signal, here the database is used which consist of EEG signal of 29 subject and five trail of each subject. The transform named as Chirplet is used for extraction of the feature and



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# CCS Combined with Geothermal Energy Generation— Hybrid Geothermal Energy Concept

[Nandlal Gupta](#)  & [Manvendra Vashistha](#)

Conference paper | [First Online: 01 May 2020](#)

**534** Accesses

Part of the [Springer Proceedings in Energy](#) book series (SPE)

## Abstract

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India has 400 thermal springs owing the potential of generating more than 10600 MW of electricity in the form of geothermal energy. Even after such a huge potential, the Indian geothermal energy landscape is still underrepresented compared to the rest of the nations in the world. Geothermal springs are most clean, reliable, and almost CO<sub>2</sub>-free electricity production thereby mitigating the increasing CO<sub>2</sub> concentration in the Indian environment

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# Smart Apron Using Embroidered Textile Fractal Antenna for E-Health Monitoring System

[Shruti Gite](#)  & [Mansi Subhedar](#)

Conference paper | [First Online: 08 September 2020](#)

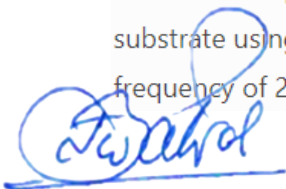
**1164** Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 672)

## Abstract

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The rapid advances in the wireless communication field have given a new dimension to antenna design. This paper is envisioned to design a wearable textile antenna for healthcare and medical applications. The proposed antenna is being embroidered on a polyester substrate using conductive stainless steel thread. The antenna is designed at operating frequency of 2.4 GHz (ISM band) used for industrial and medical field. The proposed antenna



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Conference Paper

## Performance Analysis of Computer Aided Brain Tumour Detection using Framelet Transform and KNN

August 2019

Conference: International Conference on Machine Learning, Image Processing, Network Security and Data Sciences

**Authors:**



**Ankita Patil**



**Mansi Subhedar**

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## Pathological Brain Tumour Detection Using Ridgelet Transform and SVM

[Patil Ankita](#) & [Mansi Subhedar](#)

Conference paper | [First Online: 16 July 2019](#)

**562** Accesses

Part of the [Communications in Computer and Information Science](#) book series (CCIS, volume 1036)

### Abstract

The identification, detection and classification of brain MRI images into abnormal and healthful is a main pre-clinical step for patients. Standard classification is tedious, valuable, inimitable, and time consuming. Using simple imaging techniques, it is very difficult to have vision about the normal and tumour cell due to the similarities between them. The proposed brain tumour detection method employs ridgelet transform and SVM to identify malignant

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## Research on shear strength of geopolymer concrete by using fly ash

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## Research on shear strength of geopolymer concrete by using fly ash

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**Abstract:** Cement is one of the most important construction materials. Cement is a backbone of civil engineering work. Development of whole world depends upon increasing infrastructure. For which cement is very necessary. Manufacturing of cement produce huge amount of carbon di-oxide and other greenhouse gases which is hazardous to the environment causes pollution. Hence it is very necessary to develop alternative binding material instead of cement for construction. Many researchers contribute their work on replacement of cement in concrete.

**Keywords:** Geopolymer, Fly ash, Alkaline solution, Compressive strength, Shear strength.

### 1. Introduction

Ash-based geopolymer concrete is a major change in the construction and concrete industry in the use of Portland cement and 100% cement material is an industrial product, i.e., fly ash. The adoption of fly-based concrete is an efficient use of the world's largest ash-filled flies as a result of coal-fired power plants.

In structural and mechanical engineering, the shear strength of a component is important in designing the size and materials to be used in the construction or construction of the component. In a reinforced concrete line, the main purpose of reinforcing bar stirrups is to increase the shear strength.

Cement is one of the most widely used materials in the world. It is an important ingredient in products like concrete. Over the past decades, more research has been done to replace cement in concrete with fly ash and industrial products such as ash ash (FA) and ground granulated blast furnace slag

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# Optimizing MPLS Tunnel Creation Performance by Using SDN

[Snehal Patil](#) & [Mansi S. Subhedar](#) 

Conference paper | [First Online: 14 February 2019](#)

**720** Accesses | **1** Citations

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 898)

## Abstract

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In today's world, many high-speed enterprise links are running on MPLS. For enterprises, it is not possible to migrate to SDN technology directly and smooth transition of MPLS networks onto SDN needs to be ensured. This paper aims at optimizing the MPLS performance by coupling it with SDN. SDN controller uses some features of MPLS-TE to read network statistics. Based on the input of OSPF extension headers, SDN will reroute the traffic whenever there is



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