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ARYA
INSTITUTE OF ENGG. & TECHNOLOGY
ARYA MAIN CAMPUS, JAIPUR

TECHNIWIZE

Author's Name:
Dr. Himanshu Arora | Mr. Kshitiz Agarwal | Mr. Chirag Arora

ABOUT AIET

Arya Institute of Engineering & Technology (AIET) is amongst the foremost of Top Institutes in Rajasthan for Engineering in Higher Technical Education & Research. Established in the year 2005, in the State of Rajasthan, Arya Institute of Engineering & Technology has evolved into the most prominent College in the state as well as the Best Engineering Colleges in Jaipur. Spread over 5 acres of land, its highly skilled faculties are imparting education and guidance to thousands of students in a multi-faceted environment comprising of various Teaching Departments on its Campus. Since its establishment, the Institute has played a vital role in providing the best technical manpower and know-how to the country.

Arya Institute of Engineering & Technology is a catalyst for new & Best ideas, concepts, and skills. Arya Institute of Engineering & Technology ensures that its every student emerges as a total professional i.e. as one with a distinct individuality to lead and galvanize the process of change and transformation in the 21st century. It intends to help students discover their various facets and attain their true potential. To attain its objectives, AIET has the best possible industry contacts, the finest of faculty, and a stimulating learning environment. All in all, AIET ensures that its students are equipped

with the resources to realize their dreams the moment they step out from the Institute. It is one of the Highest Placement Engineering College in Jaipur.

A mutually-stimulating qualitative and quantitative swing in the direction of overall improvement marks the dynamics and mechanics of Arya Institute of Engineering & Technology. Its multi-dimensional development has not only been quick-paced but steady, sustained and seamless, with each front paving way for the other. This incredible milestone is achieved with abundant support of Management and from its committed faculty. Unique and exceptional landmarks, Innovative and pretentious concepts, Incredible reforms, Setting new milestones and records, could easily be attributed as some of the motto describing its unmatched progress.

In addition to accelerating the pace of meeting its primary obligation to fostering the academic, intellectual, and scholastic standards, the College has been making genuine and ample efforts for enhancing the employability skills of the Students and encouraging **Engineering Career in Jaipur.**

All the departments are encouraged to promote quality research culture and spirit. All members of the faculty play an important role in administering the diverse academic and non-academic activities of the Institute. The empowerment of the faculty has been the propelling force behind the best quality of learning experience at **Arya Institute of Engineering & Technology.**

ABOUT AIET RESEARCH & TECHNICAL MAGAZINE

The main purpose of the AIET Research & Technical magazine is to provide information for the general audience and students about the research carryout by our students in different fields on latest ongoing technology in the field of engineering & technology at different national and international levels.

The first step is to plan & identify a clear, achievable and ethical aim. All studies need to have a purpose and aim to develop knowledge or understanding in the field of engineering & technology.

This Research Magazine objective should be RELEVANT, FEASIBLE, LOGICAL, OBSERVABLE, UNEQUIVOCAL & MEASURABLE. Objective is a purpose that can be reasonably achieved within the expected timeframe and with the available resources.

The motive of this magazine is to motivate the faculties and students towards the research of his/her interest. Motivation is not only important in its own right; it is also an important predictor of learning and achievement. Faculties & students who are more motivated to learn persist longer, produce higher quality effort, learn more deeply, and perform better in classes and on standardized tests.

MESSAGE FROM PRINCIPAL

From the very inception, Arya Institute of Engineering & Technology is known to be "a college with a difference" with distinct identity and disposition amongst the Engineering Colleges in the State of Rajasthan. The main objective of the college is to cater to the holistic or total development of students by providing them ample opportunities for their academic, physical, mental, cultural, social, spiritual, and moral enrichment. To this end the college has introduced a number of innovative and novel practices seldom found in most other engineering colleges in the country. Situated in a scenic and picturesque location, the campus provides an environment conducive to learning and achieving the academic and professional aspirations of the students. Facilities are provided to promote every talent and innovation in students.

Innovations and performance have become the survival strategies in the present techno-economic scenario marked by fierce competition. The employers of engineering graduates look for some special skills and attributes in their prospective employees in order to compete in the global business environment. To meet these challenges engineering graduates should possess both hard and soft skills. The emphasis on developing positive thinking and good communication skills in English together provides the needed self-confidence and motivation for securing a good job and performing well in career.

Dr. Himanshu Arora

Principal

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Patent Details

Arya Institute of Engineering and Technology has made significant contributions to the field of research and development, as evidenced by its impressive portfolio of patents. Over the years, the college has filled numerous patents in various fields such as engineering, technology and science. These patents are a testament to the innovation and creative spirit of the faculty and students of the college. The patents cover a wide range of areas, including renewable energy, Artificial intelligence, nanotechnology and biotechnology, among others. The college actively encourages and supports research activities through its well-equipped research labs, funding opportunities, and collaborations with industry and academia. The patents of Arya Institute of Engineering and Technology Jaipur demonstrate its commitment to advancing knowledge and contributing to the progress of society.

Patent Name: Automatic Speech Recognition System for Handwritten Text

Applicant/ Owner: Dr.Rajeev Yadav

German Patent Published.

Deutsches Patent- und Markenamt

DPMA register

menu

Register information for utility models

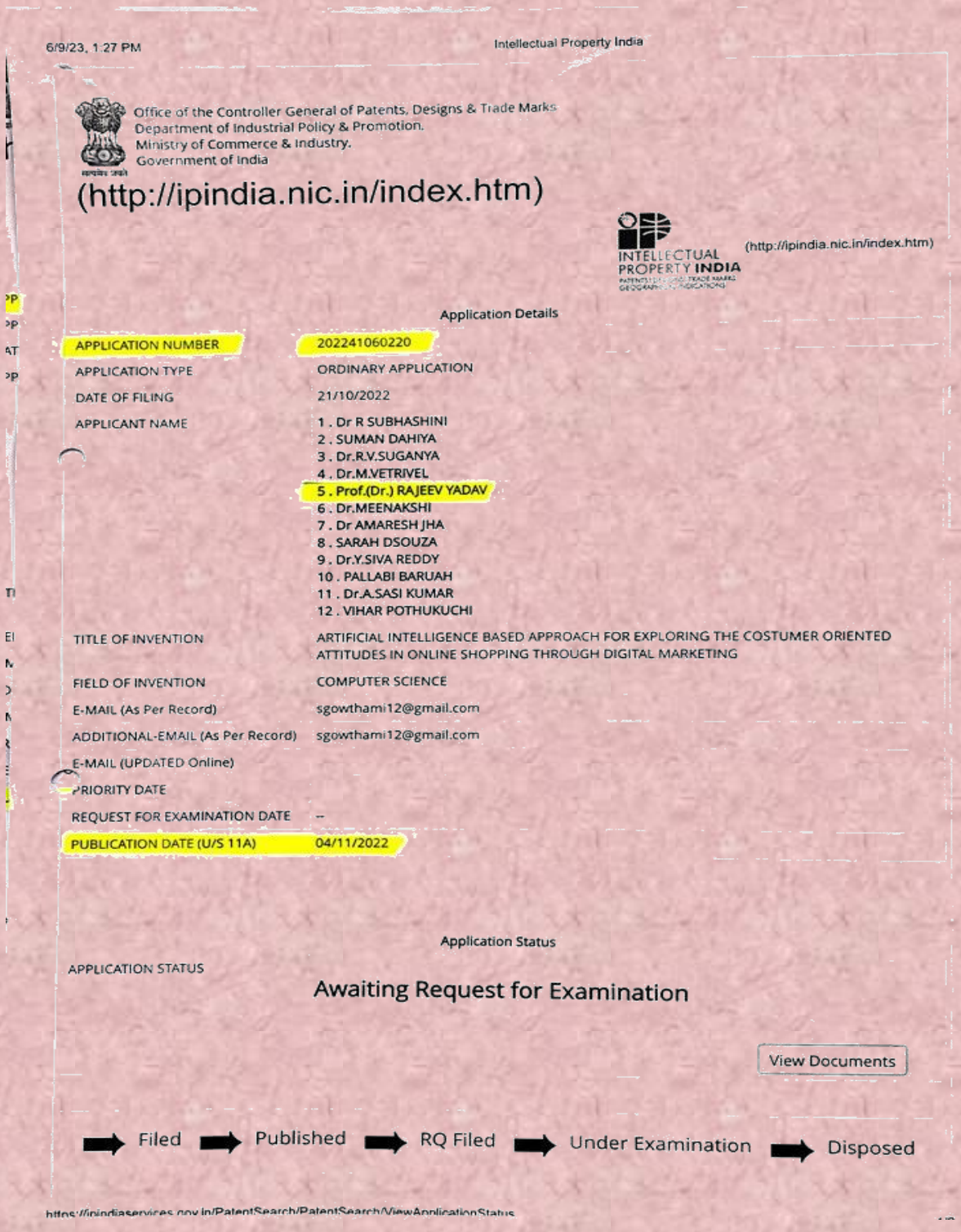
File number DE: 20 2023 100 358.3 (status: pending/in force, as of: June 9, 2023)

BASE DATA

INID	criteria	Field	Contents
	property right type	SART	utility model
	status	ST	Pending/In Effect
21	Case number DE	DAKZ	20 2023 100 358.3
54	designation/title	ti	Automatic speech recognition system for handwritten text
51	IPC main class	ICM (ICMV)	G06V 30/226 (2022.01)
22	Filing date DE	DATE	01/26/2023
47	registration day	ET	02/09/2023
45	Date of publication of the entry in the Patent Gazette	PET	03/23/2023
71/73	Applicant/Owner	INH	Doot, Sunita, Jaipur, IN, Kaushik, Harshita, Jaipur, IN, Kaushik, Priyanka, Ghaziabad, IN, Kumar, Manish, Jaipur, IN, Kumar, Parveen, Biran, IN, Saraswat, Shweta, Jaipur, IN, Shanker, Uma Alwar IN Sunder Shyam Pilani IN Yadav Isha Alwar IN Yadav Kamini Patna IN Yadav Navdeep Rewari IN Yadav Rajeev Rewari IN
74	Representative	VTR	Dilg, Haeusler, Schindelmann Patentanwaltsgesellschaft mbH, 80636 Munich, DE
10	Published DE documents	DEPN	Original document: DE202023100358U1

Patent Name: Artificial Intelligence Based Approach for Exploring the Costumer Oriented Attitudes in Online Shopping Through Digital Marketing

Applicant/ Owner: Dr. Rajeev Yadav



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Ministry of Commerce & Industry.
Government of India

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Application Details

APPLICATION NUMBER	202241060220
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/10/2022
APPLICANT NAME	1 . Dr R SUBHASHINI 2 . SUMAN DAHIYA 3 . Dr.R.V.SUGANYA 4 . Dr.M.VETRIVEL 5 . Prof.(Dr.) RAJEEV YADAV 6 . Dr.MEENAKSHI 7 . Dr AMARESH JHA 8 . SARAH DSOUZA 9 . Dr.Y.SIVA REDDY 10 . PALLABI BARUAH 11 . Dr.A.SASI KUMAR 12 . VIHAR POTHUKUCHI
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED APPROACH FOR EXPLORING THE COSTUMER ORIENTED ATTITUDES IN ONLINE SHOPPING THROUGH DIGITAL MARKETING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/11/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus

Patent Name: Blockchain Based Technique Along With Techniques Of Internet Of Things (IoT) to Monitor and Analysis the Bank Account of a Particular Banking Organization

Applicant/ Owner: Dr.Rajeev Yadav

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202211048390
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/08/2022
APPLICANT NAME	1 . Dr. SANJEEV KUMAR MANDAL 2 . R SRI DEVI 3 . ABIRAMI.S.K 4 . Dr.T.M.USHA 5 . PROF.(Dr.) RAJEEV YADAV 6 . KAMAL KANT 7 . Dr PRASHANT DIGAMBAR HAKIM 8 . ARIVANANTHAM THANGAVELU 9 . MRS.R.SATHIYAPRIYA 10 . Dr.A.SASI KUMAR 11 . ATUL SHARMA 12 . KANAGASANKARI S
TITLE OF INVENTION	BLOCKCHAIN BASED TECHNIQUE ALONG WITH TECHNIQUES OF INTERNET OF THINGS (IOT) TO MONITOR AND ANALYSE THE BANK ACCOUNTS OF A PARTICULAR BANKING ORGANIZATION
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/09/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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Filed → Published → RQ Filed → Under Examination → Disposed

Patent Name: Design and Development of Smart Encoder to Control Rotation of Motor Angle

Applicant/ Owner: Kshitiz Agarwal

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Government of India

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Application Details

APPLICATION NUMBER	202311002723
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/01/2023
APPLICANT NAME	Arya Institute of Engineering and Technology
TITLE OF INVENTION	DESIGN & DEVELOPMENT OF SMART ENCODER TO CONTROL ROTATION OF MOTOR ANGLE
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	agarwal_ksh@yahoo.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/03/2023

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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Filed → Published → RQ Filed → Under Examination → Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

Patent Name: Design and Development of Blockchain IoT for Building Management System

Applicant/ Owner: Kshitiz Agarwal

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details

APPLICATION NUMBER	202311005287
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/01/2023
APPLICANT NAME	1 . Kshitiz agarwal 2 . Arya Institute of Engineering & Technology
TITLE OF INVENTION	DESIGN AND DEVELOPMENT OF BLOCKCHAIN IOT FOR BUILDING MANAGEMENT SYSTEM
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	kshitiz@aryainstitutejpr.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/03/2023

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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Filed → Published → RQ Filed → Under Examination → Disposed

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Patent Name: Design and Development of IoT Based Home Automation Using Computer Device

Applicant/ Owner: Kshitiz Agarwal

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Docket No 20085

Date/Time 2023/02/18 23:13:02

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patent application

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202311011274	TEMP/E-1/12021/2023-DEL	2240	7631	FORM 1	Design and Development of IoT based Home Automation Using Computing Device

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001102073	Online Bank Transfer	1802230022284	2240.00	1475001020000001

Total Amount : ₹ 2240.00
Amount in Words: Rupees Two Thousand Two Hundred Forty Only
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Patent Name: Design and Development of RoboCop Robot for Advanced Surveillance and Guidance system.

Applicant/ Owner: Kshitiz Agarwal

03 PM

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CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202311026791	TEMP/E-1/29457/2023-DEL	2240	16535	FORM 1	Design and Development of RoboCop Robot for Advanced surveillance and Guidance system

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001131420	Online Bank Transfer	1104230067383	2240.00	1475001020000001

Total Amount : ₹ 2240.00

Amount in Words: Rupees Two Thousand Two Hundred Forty Only

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1/1

Patent Name: Design and Development of Portable Health Machine.

Applicant/ Owner: Kshitiz Agarwal

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patent application

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202311028174	TEMP/E-1/31381/2023-DEL	2400	17608	FORM 1	Design and Development of Portable Health Machine

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001134848	Online Bank Transfer	1804230019866	2400.00	1475001020000001

Total Amount : ₹ 2400.00
Amount in Words: Rupees Two Thousand Four Hundred Only
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Patent Name: Design and development of Artifical Intelligence based Nino Robot

Applicant/ Owner: Kshitiz Agarwal

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Kshitiz agarwal

patent application

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202311031223	TEMP/E-1/33239/2023-DEL	2400	19974	FORM 1	Design and Development of Artificial Intelligence based Nino Robot

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001142201	Online Bank Transfer	0205230025186	2400.00	1475001020000001

Total Amount : ₹ 2400.00
Amount in Words: Rupees Two Thousand Four Hundred Only

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2nd International Conference on Sentiment Analysis and Deep Learning

Springer (Out of India)

Security and Privacy in Social Network

Abhinav Agarwal, Himanshu Arora, Shilpi Mishra, Gayatri Rawat, Rishika Gupta, Nomisha Rajawat & Khushbu Agarwal

Abstract

For many people, social media has become an essential part of daily life. While many people began by exchanging data in the form of text and images in the media sphere, others moved on to sharing test papers, coursework, and masterclasses in the academic domain and e-learning materials, marketing, and a performance of the business clientele in the amusement sphere as well as jokes, music, and recordings in the entertainment sphere. Even the tiniest of Internet users would prefer long-range social media to the current Internet culture because of its widespread use. Sharing personal information on social media may be fun, but it also demands a great deal of security and safety. Data about customers should be kept private if it is to be kept private.

2nd International Conference on Sentiment Analysis and Deep Learning

Springer (Out of India)

Infrastructure as Code (IaC): Insights on Various Platforms

Manish Kumar, Shilpi Mishra, Niraj Kumar Lathar & Pooran Singh

Abstract

In the present-day tech-stack, cloud computing is evolving as a successful and one of the popular fields of technology where the new businesses are achieving success by deploying their functionalities, products, data, and services on cloud instead of on-premises system and that also without depending on any physical component. Infrastructure as code (IaC) is a set of methodologies which uses code to set up the install packages, virtual machines and networks, and

configure environments. A successful IaC implementation and adoption by developers requires a broad set of skills and knowledge. It is Development Operations' tactic of provisioning an application's infrastructure and managing it through binary readable configuration files, instead of any hardware configuration.

3rd International Conference on Data Intelligence and Cognitive Informatics ICCES 2022

Brain Tumor Detection Using Image Processing Approach

Abhinav Agarwal, Himanshu Arora, Shivam Kumar Singh & Vishwabandhu Yadav

Abstract

Brain tumors have been linked to an increase in death rates. To improve patients' life expectancy, an early and accurate discovery of tumors is the first step, and categorization is used for a more accurate diagnosis of the tumor. Brain tumor identification is the most demanding and intriguing thing to conduct in medical image processing. Tumor location, size, shape, type, and contrast of tumor tissues are used in computer-aided diagnosis (CAD). In the instance of brain imaging analysis, a machine learning algorithm is a feasible option. Convolutional neural network (CNN) is now the most common and effective approach for image categorization utilizing brain magnetic resonance imaging. It is, however, sluggish and lacking accuracy. The application of this well-known technology is DNN which is a model that is modified in the feature-extraction and segmentation phases to increase accuracy. This work presents a unique approach of detecting and classifying brain tumors from MRI scans of patients utilizing deep learning methods, as well as CNN for classification. The proposed system is made up of many steps, including pre-processing, feature extraction, segmentation, tumor detection, and tumor classification. MRI pictures were chosen because they outperform other imaging modalities in terms of brain tumor analysis. The MRI image datasets for testing and training would be derived from WHO medical image databases. In this also discusses other image processing approaches. Following a study of the comparative research, this is an extension of earlier studies that identifies and classifies tumors with more accuracy, sensitivity, and precision, shorter processing time with bigger datasets, and better performance than other systems that employed SVM and ANN classifiers.

Journal of Coastal Life Medicine: Web of Science

Mammograms- Based Breast Cancer Detection using AI Image Processing Techniques

Shweta Saraswat, Bright Keswani, Vandna Sharma, Vrishit Saraswat, Monica Lamba

Abstract

In women all around the world, breast cancer is the most frequent kind of cancer. It begins with the uncontrolled growth of breast cells. X-rays of the breast may reveal tumors or masses caused by these cells. Differentiating between benign and malignant (cancer-causing) tumors is the primary difficulty in detecting tumors. Using image processing methods such as image pre-processing, feature extraction and selection, and image classification, this effort aims to find early-stage tumors that are undetectable by humans.

Journal of Survey in Fisheries Sciences: Web of Science

Artificial Intelligence that Learns Fish Behavior Might Improve Fishing Gear

Shweta Saraswat, Shefali Sharma, Nootan Verma, Shashi Sharma, Monica Lamba

Abstract

Researchers have used monitoring devices to examine fish behavior in the vicinity of fishing gear. Deep learning algorithms allow marine scientists to quickly analyze massive amounts of image data (AI) documenting fish behavior. New artificial intelligence (AI) algorithms can identify and classify fish species with near-human precision, but reliable techniques for observing fish in their natural habitats, particularly tropical species, are still lacking. Interactions between fish and fishing gear are extremely uncommon, especially for temperate species. As part of this study, we looked at how advanced fish monitoring, categorization, and behavior recognition systems powered by AI may improve the selection of fishing equipment. It analyzes the progress of AI as well as the opportunities and constraints it faces in order to comply with fishing regulations and sustainable goals. This discovery has the potential to transform the fishing industry for the benefit of fishers, the environment, and the economy.

Journal of Materials Engineering and Performance: Web of Science

Mechanical, Wear, and Degradation Behavior of Biodegradable Mg-x%Sn Alloy Fabricated through Powder Mixing Techniques

Sandeep Kumar Jhamb, Ashish Goyal, Anand Pandey, Mrigesh Navalkishor Verma

Abstract

Magnesium (Mg) is one of the potential biomaterial for bone implants due to its biomechanical and biodegradability properties. However, its rate of deterioration is too fast for clinical use. Alloying treatment technique has been used to slow down the rate of degradation in the present study. Microstructure morphology, mechanical, tribology, and degradation behavior of Mg-x%Sn (x = 0, 1, 2, and 3 wt percent) alloys were investigated. Powder metallurgy (P/M) was used to fabricate Mg-Sn alloys, which involves adding tin to magnesium powder in various ratios. To avoid the negative effects of excessive reactivity to Mg particles, mechanical alloying was used to fabricate the alloys within high-energy planetary mill (HEPM). Sample pallets with a diameter of 12 mm were produced in hydraulic pressing machine by using produced powder mixture. A combined study is utilized for phase evolution, microstructural characterization, hardness and wear test, and corrosion tests, and this gave an effective way of observing the properties of bulk consolidated alloys. All these combined studies indicated that increase in concentration of Sn in alloy enhances the mechanical properties with decline in corrosion properties. The most optimum composition based on all results was found to be of alloy with 1wt.% Sn.

Advances in Materials and Processing Technologies- Web of Science SCI

A Comprehensive Analysis on Magnesium-bases Alloyt and Metal Matrix Composites for their in-vitro biocompatibility

Sandeep Jhamb,Jay Matai,Jay Marwaha, Ashish Goyal, Anand Pandey

Abstract

Due to low density and high mechanical and physical properties, magnesium matrix composites are prospective materials for diverse aerospace and defence applications. Specific strength, stiffness, damping behaviour, and wear behaviour can all be improved. The installation of reinforcing components has a substantial impact on creep and fatigue parameters compared to traditional engineering materials, into the metallic matrix. This paper describes the outline of impacts of various reinforcement into the magnesium and its alloy,

featuring their advantage and disadvantage alongside the performance of magnesium metal matrix composites under mechanical testing like hardness, ductility, stiffness, corrosion, biocompatibility other significant properties to make them suitable for human implant. It additionally depicts various processes with which magnesium metal composites can be manufactured alongside their benefits and drawbacks. Finally, this publication highlights the researchers' findings as well as prospects for magnesium-based composites.

New Journal of Chemistry: Web of Science SCI

Investigation of the Structural and Electrochemical Properties of a ZnO-SnO2 Composite and its Electrical Properties for Application in Dye-Sensitized Soalr Cell

Arzoo Sheikh, Kumavat Soni, N. Lakshmi

Abstract

This study compares the photovoltaic and electrochemical properties of a nano-sized ZnO–SnO2 composite synthesized by a simple yet effective mechanical mixing technique for use as a photoanode material with ruthenium N719 dye in DSSCs for energy harvesting applications. The formation of the composite was confirmed by the X-ray diffraction technique. The electrochemical properties of the composite and pure samples were studied by cyclic voltammetry, Mott–Schottky analysis and electrochemical impedance spectroscopy. The results show that the nanocomposite behaves as a single semiconducting material with a single flat-band potential and oxidation/reduction potentials with superior photovoltaic performance (>33% compared with the pure ZnO sample) in comparison with its constituent metal oxides. The higher stability of the nanocomposite has been confirmed in this work by the improved electron lifetime of this material. The results achieved by the fabricated device and the analysis of the photovoltaic properties suggest that these composite nanomaterials can serve as new-generation photoanodes in high-efficiency DSSCs.

Electronics (MDPI): Web of Science SCI

Hybrid Mode Reconfigurable Antenna with V-Shapped Extrudes for Cognitive Radio Applications

Abha Sharma,Amit Rathi, Hamza Mohammed Ridha Al-Khafaji, Mohammad Gulman Siddiqui, Ajay K. S. Yadav

Abstract

As the same device may be used for various types of applications, antennas must have the capacity to perform multiple functions. Reconfiguring the polarization, operational frequency, and radiation pattern can create an outcome of multi-functionality. A hybrid, frequency- and pattern-reconfigurable antenna with two V-shaped extrudes in a patch is proposed. To increase the bandwidth of the proposed antenna, the defected ground structure (DGS) phenomenon is presented, which is significant in the bandwidth of 3200 MHz from 2.7 GHz to 5.9 GHz, providing a gain of 3.5 dB. For this design, an FR-4 material was chosen as the substrate, and CST software was used for simulation. Using two p-i-n diodes, the projected antenna illustrates switching for multi-frequency bands such as 1.5, 2.6, 3.2, 5.1, and 8.1 GHz, with a constant radiation pattern and a main lobe direction of 155 degrees. It has C-band, WLAN, cognitive radio (CR), and Bluetooth applications. The proposed antenna displays radiation pattern switching at 3.5 GHz, showing variation between 7°, 158°, 173°, and 175°, and at 4 GHz, it demonstrates switching between 11°, 15°, 165°, and 344°, which defines the hybrid reconfiguration.

Electromagnetics (Taylor & Francis): Web of Science SCI

A Novel Pattern Agile Microstrip Antenna for Modern Wireless Communiaction System

Abha Sharma,Abhay Yadav,Amit Rathi

Abstract

This article presents a circular microstrip patch antenna loaded with three complementary split rings (CSRRs) on the ground plane for pattern agility features. The antenna resonated at 5.3 GHz and accommodated the frequency spectrum from 5.1–5.7 GHz for different CSRR combinations. The reconfigurable pattern feature has been produced with three p-i-n diode combinations integrated with the CSRR slot on the ground patch. The CSRR combinations

are utilized to change the radiation phase concerning the primary radiating circular patch. The proposed antenna radiation beam can steer from ±15°, 180°, and 0° of the broadside pattern in the elevation plane with a satisfactory gain of 3 dBi. The phase variation for various CSRR combinations concerning the primary antenna is presented. The presented antenna is fabricated on an FR4 substrate and tested in an anechoic environment; the tested results verify the pattern agility of the antenna. The demonstrated antenna is suitable for modern wireless communications like LTE and Cognitive radios. The compact size, simple biasing, and low cost are added advantages of the antenna.

Jordan Journal of Civil Engineering :***Web of Science SCI***

Impact of Waste Iron Slag on Mechanical amd Durability Properties of Concrete

Kishan Lal Jain, Dinesh Kumar Sharma, Rakesh Choudhary, Shruti Bhargava

Abstract

Waste management is of great concern in todayï¿½s world. Every year, an enormous amount of solid waste is generated from different industrial activities. Especially, the waste which produces by iron industries in a particular form of slag. The major issue of emission of carbon-di-oxide from cement industries is a serious problem for the earth's environment and surrounding area. Thus, in this study, the waste iron slag obtained from nearby iron industries was used as a partial substitute for cement. The cement was replaced with iron slag (IS) at the substitution levels of 7.5%, 15%, 22.5%, 30%, and 37.5% by weight of cement. The doses of superplasticizer for every mix were taken based on the essential workability requirements for the reinforced concrete work. Performance of control and blended mixes were evaluated by workability evaluation, compressive strength test, flexural strength test, water permeability test, water absorption evaluation, rapid chloride penetration test (RCPT) and carbonation test. Scanning electron microscope (SEM), X-ray diffraction (XRD) techniques, and Thermogravimetric analysis (TGA) techniques were used to assess the microstructural changes and to evaluate the chemistry of blended mixes. The results obtained from this study were encouraging in terms of compressive and flexural strength. The maximum compressive and flexural strength was recorded at a 22.5% replacement level of slag. Although the results obtained at 30% replacement were also better than the control mix. Resistance of slag made concrete against adverse condition i.e. CO2 penetration, chloride penetration, and water

penetration was far better than conventional ones. The results obtained from TGA indicated that the productivity of calcium silicate gel of slag concrete is better than control concrete.

Journal of Ambient Intelligence and Humanized Computing: Springer

Fuzzy Analysis of a Queueing System Featuring an Unrelible Service Provider and Geometric Arrivals by Incorporating Constant Retrial Policy and Delayed Thershold Recovery

Anjali Ahuja, Anamika Jain

Abstract

This finite buffer model and finite source model are studied by incorporating a constant retrial policy and delayed threshold recovery. The concept of geometric arrival of units, along with exponential service by a single server, is measured for the estimation of performance indices. If the service provider is idle at the time of arrival of the unit, the service begins instantaneously; otherwise, the unit joins the retrial orbit. The unit at the first position in the orbit can repeat the service request. There is a delay in the repair when the breakdown of the service provider occurs since the server first takes some setup time and then waits for k, $1 \leq k \leq N$ arriving units to accumulate before starting the repair. Where N stands for the buffer (capacity) of the system and total source (population) for finite buffer model and finite source model respectively. To acquire the neat and closed-form solutions at a steady state, the recursive technique is utilized. Parametric non-linear programming approaches have been applied for the estimation of system characteristics in fuzzy surroundings by taking the system parameters as triangular fuzzy numbers. The impact of the sensitive system parameters on the functioning of the finite buffer model and finite source model is studied by estimating numerical outcomes. Moreover, a function of cost is formulated to attain the optimum rate of service at the least possible cost by using the direct search approach.

4th International Conference on Inventive Research in Material Science and Technology (ICIRMST 2023)

An Experiment Study on Mechanical and Rheological Properties of SCC with Glass and Carbon Fibre

Hemant Kumar Sain , Mohsin Khan Agwan , Jitendar Kumar Prajapat,
Prince Goyal , Sonu Saini and Vishram Gujar

Abstract

Self-compacting concrete (SCC) is the concrete which possess the ability to flow and consolidate under self-weight. Its placement in difficult and congested conditions due to its flowing ability is possible. SCC is defined as highly deformable and provides better resistance to segregation. Its main characteristic is the higher cement matrix aggregate ratio as compared to ordinary concrete. In this paper, present the different experiments investigation on compression strength, split tensile strength, flexural strength, that are performed for different combination of glass and carbon fiber with SCC.

4th International Conference on Inventive Research in Material Science and Technology,Publisher-Springer

FEM Analysis of Turning Operation using Deform 3D

Kapil Karadia , Hemant Kumar Sain , Simran Yadav , Shivam Sharma , Rahul Sharma and Rajpal Singh Chuahan

Abstract

In the FEM method, the loading conditions in the design can be simulated and its response can be determined. Components of separate building pieces are used to model the design. For each element, there are unique formulas that describe how a certain load reacts to that particular element. This work will feature the impact of the temperature and cutting forces created on the single point cutting tool (SPCT) tip while working. Modelling of SPCT will be finished by PRO-Engineer Wildfire-4 software. In this paper present the investigates effect of the spindle speed, feed rate and cut depth on stress, deformation, temperature and cutting forces in turning of AISI 1045 steel using a coated cutting tool. Then the temperature readings and the forces will be determined at various depths of cut are given

as a input to the software. Results demonstrate that feed rate is the most important determinant in dry turning stress, temperature and cutting force values. Feed rate, cut depth , and spindle speed all effect stress, cutting forces, deformation, and temperature. ANOVA analysis reveals that spindle speed, feed rate, and cut depth all influence stress, cutting forces, deformation, and temperature.

4th International Conference on Inventive Research in Material Science and Technology Publisher-Springer

Analysis of Seismic Behavioural of Single Bay Structure with Composite Beam and RCC Columns

* Hemant Kumar Sain , Mohsin Khan Agwan , Aditya Kumar , Gomant Raj ,Sanjay Kumar and Mohit Jangir

Abstract

In India, Indian standard measures for earthquake resistant design of structures IS 1893 (Section 1): 2002 is the fundamental code that gives blueprint to working out seismic design force. Wind forces are determined utilizing code IS-875 (Section 3). In this examination of single cove structure having composite pillar with seismic zone V as per IS 1893:2016 has been completed and correlation is made between shape factor, bending moments, Due to response spectrum shear force for seismic load, deflections at different beam point, dead load and blend of this. All the simulation analysis of this work is done using the SAP 2000 software.

JETIR Research Journal ISSN-2349-5162 2022 JETIR

A Study on Fiber Reinforced Concrete Using Different Types of Geo-Polymer Fiber In Preparation of Concrete Sample

Nikhil Goyal, Hemant Kumar Sain, Mohsin Khan Agwan

Abstract

Portland cement is very malleable, but weak from stress and cracking. Weaknesses and stresses can be prevented by using standard steel reinforcements mixed to some extent with various special fibers. The addition of fiber increases the strength of the fiber matrix composite, which will change its behavior after failure. The purpose of this document is to provide information on the quality and compatibility of common fibers and their use in the

production of concrete with specific properties. In this paper given and overview and related work details on fiber reinforced concrete using different types of geo-polymer fiber in preparation of concrete sample.

JETIR Research Journal ISSN-2349-5162 2022 JETIR

A Review on Partial Replacement of Cement With Brick Dust

Shoyab Khan, Hemant Kumar Sain

Abstract

Brick is the most important building construction material which is widely used in residential and commercial structures. In load bearing structure the most important component of masonry walls is nothing but a brick. Brick dust is a luxurious substance produced as waste in brick kilns and building sites. This waste is dumped and utilized as landfills, which is harmful to the environment. Several creative and waste materials are used in concrete by investigators all around the world to solve environmental and economic challenges. In this we studied about the brick dust, effects of brick dust on environment and use of brick dust as cement replacement material.

International Research Journal of Engineering and Technology (IRJET)

A Review on Utilization of Pareva Dust and Quartz Sand in Concrete

Sneha Mathew , Hemant Kumar Sain

Abstract

Concrete the soul of infrastrucres and it’s a concoction of cement, sand, coarse aggregate’s, water. Sand and cement is consider as major material in concrete mix design due fact that manufacturing of cement and excavation sand is booming out. If consider cement the manufacturing of it release out CO 2 and other green house gases and in other hand sand excavation also is lead us to river bed declination, so best alternative for the both of materials must be taken vital notes . Through this paper an innovative study on utilization of Pareva Dust as a replacement to cement and “Quartz Sands replacement to sand is utilized and help’s to secure mother-earth. Through this paper review is provided both materials which guide us to utilization for both materials as alternative in concrete.

International Advanced Research Journal in Science, Engineering and Technology

Analytical Study on Fiber Reinforced Concrete Using Different Types of Virgin Polypropylene Fiber in Preparation of Concrete Sample

Nikhil Goyal, Hemant Kumar Sain , Mohsin Khan Agwan

Abstract

Fiber-reinforced concrete (FRC) has become popular in recent years due to its superior performance compared to ordinary concrete. Fire resistance is an unavoidable risk when the FRC is used in residential and municipal buildings and other structures. Based on the known test results, the FRC varies with different fiber types, fiber configurations, and cement matrix patterns. This paper provides a comprehensive overview of current FRC fire resistance research. Permeability, delamination, compressive strength, tensile strength, modulus, strength and loss ratio are some of the temperature dependent load parameters reported for steel fiber reinforced, polypropylene fiber reinforced and hybrid fiber reinforced concrete. In particular, the current FRC policy framework is described. In this research work using two different types of Virgin Polypropylene fiber in preparation of concrete sample. First geo-polymer fiber is BC-48 (Virgin Polypropylene) as an Admixtures- HRWR also used in concrete at various percentage like 0.0%, 0.2% and 0.4%. Using Virgin Polypropylene fibers at various percentages like 0.0, 0.3, 0.6, 0.9,1.2 and 1.5. Testing of concrete samples for some parameters like workability and strength of cubes.

International Journal of Recent Research and Review

A Detailed Study on Partial Replacement of Cement with Various Percentages of Brick Dust from Different Varieties of Brick

Shoyab Khan, Hemant Kumar Sain

Abstract

Brick is the most important building construction material which is widely used in residential and commercial structures. In load bearing structure the most important component of masonry walls is nothing but a brick. Brick dust is a luxurious substance produced as waste in brick kilns and building sites. This waste is dumped and utilized as landfills, which is harmful to the environment. Several creative and waste materials are used in concrete by investigators all around the world to solve environmental and economic challenges. Brick dust from

several varieties of brick was used in this study project. Mainly cement replacement done with various percentage like 0%, 8%, 16%, 24%, 32% and 40%. Several number of mix are prepared with different percentage of brick dust and cast cubes, beams cylinders to perform some specified experiment Slump Test, Compressive strength Test, Flexural Strength Test and Split Tensile Test.

International Journal of Recent Research and Review

A Detailed Study on Alccofine 1203 with Its Benefits, Advantage, Physical and Chemical Properties

Mohmmad Shahrukh Sarkhel , Hemant Kumar Sain , Vikas Yadav

Abstract

The motive of the current study is to understand the effects of the addition of cementitious materials like Alccofine-1203. In this paper gives detailed overview about the Alccofine-1203 with its benefits, advantage and applications. Also discussed the physical and chemical properties of the Alccofine-1203.

International Journal of Engineering Research and Generic Science (IJERGS)

A Review on Concrete Containing GGBFS and Meta kaolin with Calcium Carbide Residue

Hemant Kumar Sain, Basant Kumar Meena,

Abstract

In recent years, some investigations are reported on Ground-granulated blast-furnace slag (GGBFS) and Meta kaolin with calcium carbide residue (CCR) can be used as a partial replacement of cement and concrete. A lot of literatures have already proved that GGBFS, Meta kaolin and CCR are one of the mostly use cement or concrete supplementary material. Different literatures suggested different percentage of GGBFS, Meta kaolin and CCR as a cement replacement material. In this paper provide the detailed overview about the GGBFS, Meta kaolin and CCR with their chemical and physical properties to experimental analysis on cement and concrete.

International Advanced Research Journal in Science, Engineering and Technology

Effects of Alccofine-1203 and Foundry Sand on Properties of Concrete Mix

Mohmmad Shahrukh Sarkhel , Hemant Kumar Sain , Vikas Yadav

Abstract

The motive of the current study is to understand the effects of the addition of cementitious materials like Alccofine-1203, fly ash and foundry sand on the concrete. Cement is replaced by Alccofine-1203 in amount of 0, 5, 10,15% and the fine aggregate is replaced by foundry sand in amount of 0, 5, 10, and 15% for preparing mix design of M30 grade. The overall performance of concrete mix is characterized by the test Flexural Strength (FS), Compressive Strength (CS), split tensile strength (STS), at the curing period of 7, 14 and 28 days. The entire test Results of concrete carrying Alccofine-1203 and foundry sand has greater compressive strength, enhanced durability and reduced dispersion property. It is observed that the maximum compressive, tensile and flexural strength scan be achieved by addition of 10% of Alccofine-1203 and 10% foundry sand in the mixture of concrete with fixed water cement ratio 0.45. The project results suggested that reasonable high performance concrete can be obtained by replacing fine aggregate with 0% to 10% of foundry sand along with partial replacement of cement with 10% of the A.F-1203.

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Sagar Goyal, Vivek Ahir, Rajeev Yadav, Pawan Sen

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Develop a technology to code an image and text data using JAVA

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Rahul Gupta, Neha Saxena, Shweta Saraswat, Sagar Pradhan

presented the article titled

Comparison of Java-based web frameworks

in the 2nd International Conference of Undergraduate Students held during May 20-21, 2023.

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Nikhil Kumar, Pabitar Reddy, Manish Kumar, Pawan Sen

presented the article titled

Cyber Security Threats & Countermeasures

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Harsh Raj, Mukesh Bansal, Manish Kumar, Purva Agarwal

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MESSAGE FROM AUTHOR

It gives us great pleasure and pride to present the research related magazine AIET Research & Technical Magazine. AIET provides a platform for every teacher and student to develop their thinking skills. In this fast changing world, every college needs a platform to showcase their work, research and achievements in a great way to know about our institute, its success as well as the various events and competitions conducted. It also portrays the outstanding achievements of teachers & students in various areas and hence encourages the mass to bring forth their talent and take it to the right direction with the help of our mentors.

This magazine should be viewed as a launch pad for those who have the potential to thrive ahead. We feel proud to declare that with the support and dedicated efforts of the college authorities, we are able to issue our college magazine.

I hope, our readers will find this magazine informative and inspiring.

The valuable support and guidance which we received from our President Dr. Arvind Agarwal Sir, Vice-President Dr. Puja Agarwal Ma'am, Principal Dr. Himanshu Arora Sir and other heads of college made it possible to the release the magazine.

Dr.Himanshu Arora

Mr.Kshitiz Agarwal

Mr.Chirag Arora

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