



A Century of Service to the Nation

Volume 10 | Issue 3 | March 2025

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Er VB Singh

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**IEI
EPITOME**

Notification for IEI R&D Grant-in-Aid

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To promote appropriate technology, assist in building up design & research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/PhD courses. The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Every year, the Institution invites applications for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma/UG/PG/PhD engineering program in AICTE/UGC/NAAC approved Institutions / Colleges / Universities. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members of IEI. Membership criteria for student(s), guide(s) and institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory
2. UG (BE/BTech/ Equivalent)	'Student Member' (SMIE)	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation or valid NIRF Rank
3. PG (ME/MTech/ Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation or valid NIRF Rank
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation or valid NIRF Rank

The soft copy of the duly filled-up applications (in editable format), as per the proforma available on our website www.ieindia.org, should be sent through email to research@ieindia.org and one printed copy of the same should reach the following address:

The Deputy Director (Technical)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020

Kindly go through the guidelines (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative>) before filling up the application.

Members in the News

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Er C Debnath, FIE

President, Indian Buildings Congress (IBC), New Delhi &
Past President, IEI

✉ cdnagt@gmail.com

Er C Debnath has been elected as **National Vice President of Institution of Public Health Engineers, India (IPHE,SI)** (A professional organization connected with Public Health & Environmental Engineering having HQ at Kolkata) for the session 2025-26. The election was held during February & March, 2025 & result declared on 26 March 2025. He is the First Engineer from Tripura who has been elected as Vice President of IPHE since its establishment in 1972.



Prof Dr Raghupatruni Bhima Rao, FIE

Former Chief Scientist, CSIR - Institute of Minerals and Materials Technology, Bhubaneswar, Odisha &
Council Member, IEI

✉ bhimarao@gmail.com

Prof Dr Raghupatruni Bhima Rao was felicitated as a **Senior Scientist** of Odisha for the year 2023 for his humble recognition and valuable contribution in the field of Mineral Technology by the Chief Minister of Odisha, Shri Mohan Charan Majhi with citation and memento on 28 March 2025 at Lokseva Bhawan, Odisha. The Science and Technology Minister Shri Krushna Chandra Patra is also present. This event is organized by Odisha Bigyan Academy (Science and Technology, Government of Odisha), Bhubaneswar.

Members in the News

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Prof Dr A Tajuddin, FIE

Professor & Head

Department of Agricultural Engineering, Saveetha Engineering College (Autonomous)
Thandalam, Chennai, Tamil Nadu

✉ atajuddin17@gmail.com

Application of Design of “Low Land Rice Weeder” by **Prof Dr A Tajuddin** and others has been accepted for registration as per the details below.

Serial Number	: 191073
Design Number	: 431585-001
Cbr Number	: 217494
Cbr Date	: 25/09/2024
Date of Issue	: 30/01/2025
Name of other Applicants	: 1. Saveetha Engineering College 2. Mr.B.Jagadeesan & 3. Ms. Uma Shanmuga Priya
Application Status	: Design Accepted and Published, Journal No is 05/2025 and Journal Date is 31/01/2025
Issuing Authority	: Controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, The Patent Office, Government of India, Chennai.



Dr Somnath Mahato, MIE

Project Scientist III

Meteorological Training Institute (MTI), Climate Research & Services (CRS), India
Meteorological Department (IMD), Government of India

✉ somnathmahato1@gmail.com

Dr Somnath Mahato received the **3rd Best Poster Presentation Award** of the paper entitled “Satarkabarta Detect Alert Message Services using NaVIC Signals” in 14th Asia-Oceania Meteorological Satellite Users’ Conference during 4-6 December 2024, New Delhi, India

Corporate Air Ticketing for IEI Members

Corporate Members may book Corporate Air Ticket through M/s EBIX Travels Private Ltd.
For details please visit: <https://www.ieindia.org/webui/IEI-AirTickets.html>

Members in the News

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The following esteemed corporate members were conferred with the prestigious **Professional Engineers (PE) Certificate** from IEI after successful completion of the assessment process and they have been authorised to use the style and title of **P Eng (I)** by virtue of expertise in their field:



Er Cherukupalli Nagabhushanam, FIE & PE7007464 (Certified Professional Engineer, IEI)
Managing Director, Ebner India Pvt. Ltd., Mumbai
Field : Mechanical Engineering
✉ cnag1970@gmail.com
Valid from: 09 March 2025
Valid up to: 31 March 2030



Er Mrinal Kanti Bhaduri, MIE & PE7007480 (Certified Professional Engineer, IEI)
Assistant General Manager, TATA Steel, Netherland
Field : Mechanical Engineering
✉ mrinalkanti.bhaduri@gmail.com
Valid from: 09 March 2025
Valid up to: 31 March 2030



Er Shakir Rahman, MIE & PE7007499 (Certified Professional Engineer, IEI)
Senior Engineer (Mechanical Piping), Muscat Engineering Consultancy (Formerly Tebodin & Partner LLC), Oman
Field : Mechanical Engineering
✉ hifzur103103@yahoo.co.in
Valid from: 09 March 2025
Valid up to: 31 March 2030



Er Pandurang Ganpat Todakar, MIE & PE7007510 (Certified Professional Engineer, IEI)
Welding Engineer, PED, TUV India Pvt. Ltd., Czech
Field : Mechanical Engineering
✉ pandurangtodakar@gmail.com
Valid from: 09 March 2025
Valid up to: 31 March 2030

Members in the News

Volume 10 | Issue 3 | March 2025



Er Girish Y Savant, FIE & PE7007529 (Certified Professional Engineer, IEI)
Proprietor, GYS Consulting Solution, Maharashtra
Field : Mechanical Engineering
✉ girishysavant@gmail.com
Valid from: 09 March 2025
Valid up to: 31 March 2030



Er Ajayaram Burri, FIE & PE7007545 (Certified Professional Engineer, IEI)
Lead Engineer, Nikola Corporation, Phoenix, Arizona
Field : Mechanical Engineering
✉ ajayramonline@gmail.com
Valid from: 09 March 2025
Valid up to: 31 March 2030



Er Singh Prince Kanhaiya, AMIE & PE7007553 (Certified Professional Engineer, IEI)
Senior Manager (Project Technical lead)- Multitex Filtration Engineers Ltd., New Delhi
Field : Mechanical Engineering
✉ princeksingh2797@gmail.com
Valid from: 09 March 2025
Valid up to: 31 March 2030

ANNOUNCEMENT

Know-Your-Member (KYM)

Is your mobile number & e-mail updated with us ? If not, then please forward your Know- Your-Member (KYM) form immediately for participating in IEI Election process.

You are requested to forward your KYM along with the self-attested copy of photo ID proof to the address given below:-

Deputy Director (Membership)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700020
Email: datamemb@ieindia.org



The form is available on IEI Website or scan the code:

https://www.ieindia.org/WebUI/ajax/Downloads/WebUI_PDF/HIGHLIGHTS_DOCUMENT-3332.pdf

Publication by Members

Volume 10 | Issue 3 | March 2025

Book Chapter



Mr S Valai Ganesh, MIE

Assistant Professor (Senior Grade)

Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam,
Tamil Nadu

✉ valaiganesh@ritrjpm.ac.in

Title of Book Chapter: Adaptive Learning Technologies: Navigating the Road from Hype to Reality

Chapter Number 04, Multimodal Generative AI, Springer, Singapore, 25-February-2025, pp 79-113, Print ISBN: 978-981-96-2354-9, Online ISBN: 978-981-96-2355-6

DOI: https://doi.org/10.1007/978-981-96-2355-6_4

Co-authors: M GomathyNayagam, V Suresh, S Rajakarunakaran & B Bensujin

***Abstract:** As AI techniques such as machine learning, neural networks, and natural language processing continue to improve at a very fast rate, they will be increasingly used in education. This will lead to more flexible and fair learning experiences that are tailored to each student's strengths and needs. This paper looks at the main AI features that power some of the most important education technology innovations, such as smart tutoring systems, personalized virtual tutors, automated content creation, and smart assessment analytics. After looking at results and examples from a number of important areas, such as simulated environments, data-driven ideas, and conversation-based tutoring agents, the main pros and cons of these new socio-technical systems are discussed. AI has the ability to improve teaching and learning in ways that people cannot. However, as the field grows, it is important to think about ethics, responsibility, and including everyone. A study of adding teachers versus replacing them is also performed, and framework principles for fair learning progress are proposed. The summary is easy to understand and discusses past successes, current skills, current trends, and possible future developments. It tells many people about both good and bad outcomes and stresses how important it is to have freedom, choice, and design that is based on results for systems that are moral and help students learn.*

Title of Book Chapter: Transforming Student Assessments in the Era of Machine Learning: Balancing Innovation and Ethics

Chapter Number 17, Driving Quality Education through AI and Data Science, IGI Global Scientific Publishing, Pennsylvania, United States, 17-February-2025, pp 383-408, ISBN13: 9798369382929, ISBN13 Softcover: 9798369382936, EISBN13: 9798369382943

DOI: <https://doi.org/10.4018/979-8-3693-8292-9.ch017>

Co-authors: V Suresh, S Rajakarunakaran, L Ganesan & V Suryakumar

***Abstract:** Machine learning algorithms are now being used to improve personalised student assessments in higher education. This chapter examines the benefits and ethical considerations of using these algorithms to develop personalised and customised testing experiences. Through the analysis of vast datasets, machine learning algorithms may offer useful insights into student progress and identify specific areas that require work. This allows educators to customise their teaching methods to meet the individual needs of each student. Nevertheless, the implementation of these technologies gives rise to ethical considerations pertaining to privacy, bias, and openness. This chapter examines the difficulties associated with machine learning in personalised student assessments and proposes creative methods to ensure fair and responsible use. The objective of the discussion is to find a middle ground between utilising the potential advantages of these algorithms and upholding ethical principles, thereby promoting a more efficient and inclusive learning environment in higher education.*

Discount at the Samsung e-store for IEI Corporate Members

Exclusive access to the Samsung e-store for IEI Corporate Members. This shall enable the Corporate Members to procure the Samsung Products at a discounted rate. The Samsung e-store can be accessed at www.samsung.com/in/multistore/iei using your Membership No. and email id / Mobile number.

Publication by Members

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Paper published in the Journals / Proceedings



Dr Kamal Harikrishna Dhandha, MIE

Sr. Inspection Engineer
TUV India Pvt. Ltd., Mumbai, Maharashtra
✉ kamaldhandha@yahoo.co.in

Title of Paper: Helium Leak Testing Requirements in Fabrication of Cryogenic Storage Tanks

Journal of Emerging Technologies and Innovative Research, IJ Publication, 11(12), December-2024, pp f464-f476, eISSN: 2349-5162

DOI: <https://www.jetir.org/papers/JETIR2412554.pdf>

Co-authors: Bharat Joshi, Kamlesh Mistry, Manish Mishra & Bhavesh Limbada

Abstract: Liquefied gases are used in a wide range of applications in many industrial sectors. The transportation of gases across the world is done in liquid state. Cryogenic liquids exist at extremely low temperatures ($\leq 196^{\circ}\text{C}$ in many cases) which is why specialized equipment is required for their transportation and storage. It's vital for these tanks to be thermally insulated so as to maintain the low temperatures. The cryogenic stationary tanks are designed for long term storage of cryogenic liquefied gases under pressure. The maximum working pressure of cryogenic liquefied gas storage tanks ranges from 2 to 37 bar, depending on where the tank is to be used. The cryogenic storage tank can replace the reverse transportation of the gas cylinder, thereby saving a large amount of manpower and material resources to a large extent. Manufacturing of cryogenic tanks requires special technical and sophisticated fabrication techniques.

A non-destructive technique would be a significant aid in acceptance testing of new and refurbished tanks, saving significant time and money. Many welding processes are performed to construct cryogenic system. Leak-tightness for the cryogenic system is required at low temperature environment. Helium leak detection techniques are commonly used to find leak for the cryogenic system. The helium leak detection techniques for sniffing and pressurizing techniques are introduced. High vacuum is also necessary to use helium leak detector. Helium leak test is the best method for risk management in cryogenic system. Leak detection guarantees at test temperature. Leak-tight can be guaranteed at room temperature if leak is tested at room temperature. In Inox India Limited, Kandla Helium leak detector employed to ensure leak tightness of the weld joints.

Keywords: Cryogenics; Leak Testing; MSLT, Detection; Detector Probe

ANNOUNCEMENT

Elevate your status as a Certified Professional Engineers (PE) and International Professional Engineers (IntPE)

Professional Engineers (PE) Certification by IEI

Eligibility Requirement

To attain the Professional Engineers (PE) certification through The Institution of Engineers (IEI), you must meet the following eligibility criteria:

1. Hold a BE/BTech or equivalent degree recognized by a Statutory Authority or the Government of India.
2. Have accumulated five years or more of professional experience.
3. Be a member of a recognized professional engineering institution or association.
4. Maintain a satisfactory level of Continued Professional Development (CPD).

Please visit the following link :

https://www.ieindia.org/webui/IEI_PE_Certification.aspx

International Professional Engineers (IntPE) Certification by IEI

Eligibility Requirement

To be eligible for IntPE Certification by IEI, candidates must meet the following criteria:

1. Hold a BE/BTech or equivalent degree recognized by the Statutory Authority or the Government of India.
2. Possess seven years or more of professional experience.
3. Have a minimum of two years of professional experience in a significant engineering activity.
4. Be a member of a recognized professional engineering institution or association.
5. Maintain a satisfactory level of Continued Professional Development (CPD).

Please visit the following link:

https://www.ieindia.org/webui/IEI_IntPE_Certification.aspx

The eligible candidate can submit application in the prescribed format to: The Deputy Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020;
For any query and assistance, please send email to: pe@ieindia.org

Articles Published in Latest Issue of IEI Journals

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Journal of The Institution of Engineers (India): Series A

[Agriculture, Architecture, Civil & Environmental Engineering]

(Electronic ISSN: 2250-2157; Print ISSN: 2250-2149)

[CiteScore: 2.2; h5 Index: 22]

[SCOPUS Indexed]

For download, use IEI Membership ID through: www.ieindia.org



Volume 106, Issue 1, March 2025

- Title:** **Assessment of Railway Noise Levels in Urban Residential Areas: Influence of Train Speed, Length, and Type**
- Authors:** **Boddu Sudhir Kumar & Venkaiah Chowdary**
Department of Civil Engineering, National Institute of Technology, Warangal, Telangana, 506004, India
Department of Civil Engineering, Shri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh, 534202, India
- DOI:** <https://doi.org/10.1007/s40030-025-00867-z>
- Online Publication Date:** 19 January 2025
- Pages:** 1–17
- Title:** **Plant Disease Identification under Imbalanced Dataset using Hybrid Deep Learning Method**
- Authors:** **Changjian Zhou & Xin Zhang**
Department of Data and Computing, Northeast Agricultural University, Harbin, 150030, China
School of Electrical and Information, Northeast Agricultural University, Harbin, 150030, China
- DOI:** <https://doi.org/10.1007/s40030-024-00851-z>
- Online Publication Date:** 05 November 2024
- Page:** 19–29
- Title:** **A Reliable Prediction Method to Forecast Pile Bearing Capacity Using Classic NB Base Hybrid Schemes**
- Author:** **Zheng Zhao**
Jiangsu Vocational Institute of Architectural Technology, Xuzhou, 221116, Jiangsu, People's Republic of China
- DOI:** <https://doi.org/10.1007/s40030-024-00852-y>
- Online Publication Date:** 18 November 2024
- Page:** 31–44
- Title:** **Spatio-Temporal Analysis and Prediction of Land Use and Land Cover in Jagdalpur Sub-Division of Bastar District in State of Chhattisgarh, India from 2012 to 2037**
- Authors:** **Anurag Yadav & Raj Mohan Singh**
Civil Engineering Department, Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Uttar Pradesh, Prayagraj, 211004, India
- DOI:** <https://doi.org/10.1007/s40030-024-00849-7>
- Online Publication Date:** 16 October 2024
- Pages:** 45–57
- Title:** **Analysis of Rivers' Hidden Cooling Potential on a River Front City- a Case Study on Vijayawada City, Andhra Pradesh, India**
- Authors:** **Haripavan Nekkanti, Nisha Radhakrishnan & D Kannamma**

Articles Published in Latest Issue of IEI Journals

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Department of Civil Engineering, National Institute of Technology, Tiruchirappalli, India
Department of Civil Engineering, Shri Vishnu Engineering College for Women, Bhimavaram,
Andhra Pradesh, 534202, India
Department of Architecture, National Institute of Technology, Tiruchirappalli, India

DOI: <https://doi.org/10.1007/s40030-024-00843-z>

Online Publication Date: 17 December 2024

Pages: 59–69

Title: **Effects of Shaking Intensity on Seismic Site Response of Deep Soft Soils**

Authors: **Md Hussain, Rashid Mustafa & Mithilesh Kumar**

Department of Civil Engineering, Saharsa College of Engineering, Saharsa, Bihar, 852201, India

Department of Civil Engineering, Katihar Engineering College, Katihar, Bihar, 854109, India

DOI: <https://doi.org/10.1007/s40030-025-00869-x>

Online Publication Date: 19 January 2025

Pages: 71–80

Title: **Development and Evaluation of Mobile-App Controlled Self-Propelled Sensor-Integrated Rover for Site Specific Fertility Monitoring**

Authors: **Rizwan UI Zama Bandy, Mohd. Muzamil, Jagvir Dixit, Danish Gul, Shuja Ahmad Tak, Mahendra Kumar Sharma & Sehreen Rasool**

Division of Farm Machinery and Power Engineering, CoAE&T, SKUAST-K, Shalimar, India

Division of Fruit Science, Faculty of Horticulture, SKUAST-K, Shalimar, India

College of Temperate Sericulture, SKUAST-K, Mirgund, Shalimar, India

DOI: <https://doi.org/10.1007/s40030-024-00864-8>

Online Publication Date: 11 January 2025

Pages: 81–92

Title: **Measuring Linkages of Place-Related Constructs at City Scale—A SEM Approach to Perception**

Authors: **Rebecca Singh Jadon, Sarvesh Kumar Jain & Alok Sharma**

Madhav Institute of Technology and Science, RGPV (Bhopal), Gwalior, MP, India

Department of Civil Engineering, Madhav Institute of Technology and Science, Gwalior, MP, India

Department of Architecture and Planning, Madhav Institute of Technology and Science, Gwalior, MP, India

DOI: <https://doi.org/10.1007/s40030-024-00847-9>

Online Publication Date: 14 October 2024

Pages: 93–109

Title: **Evaluating the Impact of Snowmelt Patterns on Alaknanda River Streamflow in the Western Himalayas: An ArcSWAT Analysis**

Authors: **Nyigam Bole, Salam Lamyamba Luwang, Arnab Bandyopadhyay & Aditi Bhadra**

Department of Agricultural Engineering, North Eastern Regional Institute of Science and

Technology, Nirjuli (Itanagar), Arunachal Pradesh, 791109, India

DOI: <https://doi.org/10.1007/s40030-024-00845-x>

Online Publication Date: 01 October 2024

Pages: 111–125

Title: **Impact of Different Levels of Rainfall on the Road Crash Count and Severity in Dhaka City**

Author: **S. M. Sohel Mahmud**

Accident Research Institute (ARI), Bangladesh University of Engineering and Technology

(BUET), Dhaka, 1000, Bangladesh

DOI: <https://doi.org/10.1007/s40030-024-00855-9>

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 3 | March 2025

Online Publication Date: 27 November 2024

Pages: 127–142

Title: **Mineralogical Analysis of Copper Slag Treated Expansive Soil Using X-Ray Diffraction**

Authors: **Amit Kumar Jangid, Kamaldeep Singh Grover, Jitendra Khatti, Shanti Lal Meena & Yashwant Koli**

Department of Civil Engineering, Rajasthan Technical University, Kota, Rajasthan, India

Department of Mechanical Engineering, Rajasthan Technical University, Kota, Rajasthan, India

Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India

DOI: <https://doi.org/10.1007/s40030-024-00848-8>

Online Publication Date: 08 October 2024

Pages: 143–153

Title: **Assessing Consumer Perceptions of Electric Vehicles in India Through the Lens of the Theory of Planned Behavior**

Authors: **B. Gayathiri & S. B. Inayath Ahamed**

Department of Business Administration, Kalasalingam Business School, Kalasalingam Academy of Research and Education, Krishnan Koil, Virudhunagar, Tamil Nadu, India

DOI: <https://doi.org/10.1007/s40030-024-00863-9>

Online Publication Date: 09 January 2025

Pages: 155–174

Title: **Application of Fuzzy Factor Comparison Method for Evaluation of Key Performance Indicators Affecting Air Quality in India: A Decision Matrix Approach for Mitigating Anthropogenic Pollution Sources**

Authors: **Janki Pandya, Debasis Sarkar & Daya Shankar Kaul**

Department of Civil Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, India

DOI: <https://doi.org/10.1007/s40030-024-00856-8>

Online Publication Date: 03 December 2024

Pages: 175–193

Title: **Multi-Dimensional Assessment of Submarine Groundwater Discharge and Seawater Intrusion Between Mangaluru and Udupi Coast of Karnataka, India**

Authors: **P. S. Sunilkumar, H. Ramesh & Sushamita Wadde**

Department of Water Resources and Ocean Engineering, National Institute of Technology Karnataka (NITK), Surathkal, Mangalore, 575025, India

Hard Rock Regional Centre, National Institute of Hydrology, Belagavi, Karnataka, 590019, India

DOI: <https://doi.org/10.1007/s40030-024-00865-7>

Online Publication Date: 16 January 2025

Pages: 195–216

Title: **Development and Assessment of Low-Cost Robotic Boom Sprayer for High Density Plantation**

Authors: **Ahmer Bashir Shah, Jagvir Dixit, Hilaas Ahmad Peerzada & Farooq Ahmad Bhat**

Division of Farm Machinery and Power Engineering, College of Agricultural Engineering and Technology, SKUAST-K, Srinagar, India

Indian Institute of Technology, Delhi, India

DOI: <https://doi.org/10.1007/s40030-024-00854-w>

Online Publication Date: 28 November 2024

Pages: 217–228

Articles Published in Latest Issue of IET Journals

Volume 10 | Issue 3 | March 2025

- Title: **Biomedical Ash as a Soil Stabilizer: Immobilizing Toxic Metals Through Biomineralization**
Authors: **Mahindra Kothuri & C. P. Devatha**
Present address: Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur, India
National Institute of Technology Karnataka, Surathkal, India
DOI: <https://doi.org/10.1007/s40030-024-00859-5>
Online Publication Date: 17 January 2025
Pages: 229–240
- Title: **Optimization of Vibration Control of Adjacent Buildings Structures by a New Inertial Amplified Mass-Tuned Damper**
Authors: **Xiaofang Kang, Huayang Li, Xinyue Zhu, Ao Zhang, Jianjun Tang & Xianzeng Shi**
School of Civil Engineering, Anhui Jianzhu University, Hefei Anhui Province, 230601, China
DOI: <https://doi.org/10.1007/s40030-024-00850-0>
Online Publication Date: 09 November 2024
Pages: 241–258
- Title: **Modelling and Evaluating Risk Exposure for Motorized Two-Wheelers at Signalized Intersections in Urban Mixed Traffic**
Authors: **Tazim Ameen & Abdullah Ahmad**
Doctoral Candidate, Transportation and Planning Wing, National Institute of Technology, Hazratbal, Srinagar, 190006, India
Faculty of Engineering, Transportation and Planning Wing, National Institute of Technology, Hazratbal, Srinagar, 190006, India
DOI: <https://doi.org/10.1007/s40030-024-00844-y>
Online Publication Date: 03 October 2024
Pages: 259–274
- Title: **Pre- Trip Parking Choice and Parking Guidance System for City of New Delhi: A Comprehensive Two-Phase Model**
Authors: **Abdul Ahad & Farhan Ahmad Kidwai**
Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 110025, India
DOI: <https://doi.org/10.1007/s40030-024-00846-w>
Online Publication Date: 04 October 2024
Pages: 275–285
- Title: **Analysis and Design of a Hybrid Reinforced Earth Retention System for Sustainable Slope Protection: A Case Study Using Limit Equilibrium and Finite Element Methods**
Authors: **Varun Menon & Sreevalsa Kolathayar**
Department of Civil Engineering, National Institute of Technology Karnataka, Surathkal, India
DOI: <https://doi.org/10.1007/s40030-024-00866-6>
Online Publication Date: 07 January 2025
Pages: 287–303

Articles Published in Latest Issue of IEI Journals

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Journal of The Institution of Engineers (India): Series B

[Computer, Electrical, Electronics & Telecommunication Engineering]

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[CiteScore: 3.1; h5 Index: 24]

[SCOPUS Indexed]

For download, use IEI Membership ID through: www.ieindia.org



Volume 106, Issue 1, February 2025

- Title:** **ResNet-Based Classification for Leaf Disease Detection**
Authors: **S. Kalaivani, C. Tharini, T. M. Saran Viswa, K. Z. Furqana Sara & S. T. Abinaya**
Department of ECE, B.S.A Crescent Institute of Science and Technology, Chennai, Tamil Nadu, India
DOI: <https://doi.org/10.1007/s40031-024-01062-7>
Online Publication Date: 17 May 2024
Pages: 1–14
- Title:** **Islanding Detection Using Empirical Mode Decomposition and Artificial Neural Network for Inverter Interfaced Distributed Generation**
Authors: **M. A. Aneesa Farhan, Kushal Soni, Maria K. Thelegthoti & Ankur Singh Rana**
Department of Electrical and Electronics Engineering, National Institute of Technology Tiruchirappalli, Tiruchirappalli, Tamil Nadu, 620015, India
DOI: <https://doi.org/10.1007/s40031-024-01015-0>
Online Publication Date: 28 May 2024
Page: 15–30
- Title:** **Optimized Universal Disk Scheduling Algorithm**
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- Title:** **Design of UWB Antenna with Band Rejection Characteristics Using EBG Structures**
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Authors: **Chaladi S. Ganga Bhavani, N. Bhanu Prasad & D. Ravi Kishore**

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Electrical Department, Arak University of Technology, Arāk, Iran
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- Authors: **Subhashree Mohapatra, Pukhraj Singh Jeji, Girish Kumar Pati, Janmenjoy Nayak, Manohar Mishra & Tripti Swarnkar**
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- Authors: **Deepti Kakarla, P. Sahaja, K. Vaishnavi, V. Srileka & B. Anusha**
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Authors: **Qin Yuan & Yuping Lai**
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Authors: **Soham Ghosh & Pratik Suryawanshi**
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Authors: **V. Kaviya & V. Kirubakaran**

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- Authors:** **Yusuf Parvez, Nathi Ram Chauhan & Mahima Srivastava**
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- Authors:** **Bagadi Pradeep Kumar, Pujari Srinivasa Rao, Ch Venkata Rao & P. Prakash**
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- Authors:** **Ghadir Ahmadi Jeyed, Mohammad Gandomkar, Hamze Ahmadi Jeyed & Hasan Biglari**
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- Title:** **Design Optimization Of Two Stage Spur Gear Box With Critical Mechanical And Tribological Constraints By Nature Inspired Algorithms**
- Authors:** **N. Godwin Raja Ebenezer, S. Ramabalan & S. Navaneethasanthakumar**
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- Author: **Adik Yadao**
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- Authors: **M. Vykunta Rao, K. Venkateswara Reddy, Bade Venkata Suresh, Ch Vinod Babu, S. Chiranjeevarao & M. V. N. V. Satyanarayana**
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- Authors: **Rudra Pratap Singh, V. Mukherjee & Dharmbir Prasad**
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- Authors: **Mohammad Nadjafi & Peyman Gholami**
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- DOI: <https://doi.org/10.1007/s40032-024-01130-3>
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- Authors: **L. K. Gite & R. S. Deodhar**
Armament Research Development Establishment (ARDE), Defence Research Development Organization, Ministry of Defence, Government of India, Pashan, Pune, 411 021, Maharashtra, India
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Authors: **Hareram Lohar & Anirban Mitra**

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Authors: **Shu Yang, Zhijie Gao, Peng Zhu, Zuoshan Wei, Yanwen Jin & Li Zhou**
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Authors: **Khagesh Kumar Choudhary, Pankaj Kumar Sharma, A. V. S. N. Murty & Saurabh Pandey**
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Authors: **K. Venkateswara Reddy, Korada Santarao, Kishore Kumar Kandi, P. Prakash, Durga Venkatesh Janaki & Kumar Raja Gudar**

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Online published date: 19 December 2024
Pages: 299 - 321

Title: **On 3D-printed Cutting Boards of High-density Polyethylene-stubble Waste Composites with Improved Wear Properties**

Authors: **Ranvijay Kumar, Rupinder Singh, Minhaz Husain, Vinay Kumar & Nishant Ranjan**

University Centre for Research and Development, Chandigarh University, Punjab, 140413, India
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Pages: 323 - 330

Title: **Symbolic Dynamic Balance of the 3-RRR Planar Parallel Manipulator**

Author: **Jaime Gallardo-Alvarado**

Department of Mechanical Engineering, National Technological Institute of Mexico/Celaya Campus, Av. Tecnológico y A. Garcia Cubas, Celaya, 38010, GTO, Mexico

DOI: <https://doi.org/10.1007/s40032-024-01153-w>

Online published date: 12 December 2024

Pages: 331 - 339

Title: **On Prominent β -phase of PVDF Matrix with 4D Capabilities**

Authors: **Minhaz Husain, Rupinder Singh & B. S. Pabla**

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Pages: 341 - 352

Title: **Perishable Goods Supply Chain Network Planning on E-commerce Platforms based on Improved Sparrow Search Algorithm**

Authors: **Xiaoqian Ma & Fang Luo**

Business School, Jiangxi Institute of Fashion Technology, Nanchang, 330201, China

DOI: <https://doi.org/10.1007/s40032-024-01155-8>

Online published date: 03 January 2025

Pages: 353 - 365

Title: **Design and Optimization of Air Motor with Gear Rotor System for Enhanced Performance**

Authors: **Amol Dhumal, Nitin Ambhore, Aaditya Naik, Vasant Phirke, Kiran Ghuge & Om Borwake**

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Pages: 367 - 376

Title: **Mechanical and Microstructural Characteristics of Inconel 625 Alloy after Exposure to Elevated Temperature and H_2SO_4 Solution Quenching**

Authors: **Saurabh Dewangan, Gautam Maheshwari, Shajar, Ayush Agarwal & Ved Prakash**

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DOI: <https://doi.org/10.1007/s40032-024-01158-5>

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Pages: 377 - 388

Title: **Design And Application Research of Virtual Surveying and Mapping Mechanical Drawing Teaching Assistant System — Based on WebGL Technology**

Author: **Shanshan Dai**

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Xuzhou, 221116, China
DOI: <https://doi.org/10.1007/s40032-024-01159-4>
Online published date: 19 December 2024
Pages: 389 - 401

Title: **Multi-objective Flexible Job-shop Scheduling with Limited Resource Constraints in Hospitals using Hybrid Discrete Firefly Algorithm**

Authors: **Md. Limonur Rahman Lingkon & Adri Dash**
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DOI: <https://doi.org/10.1007/s40032-024-01160-x>
Online published date: 14 December 2024
Pages: 403 - 423

Title: **Vibration and Stability Characteristics of Functionally Graded Plates subjected to Localized Edge Loadings**

Authors: **K. Swaminathan, Sachin Hirannaiah & T. Rajanna**
Department of Civil Engineering, National Institute of Technology Karnataka, Mangaluru, Karnataka, India
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Pages: 425 - 437

Title: **RETRACTED ARTICLE: Convergence of Real-Time Analytical Framework with E-Waste Disposal Using Machine Learning-Centered Hybrid Neural Networks**

Authors: **T. S. Raghavendra, S. R. Nagaraja & K. G. Mohan**
Department of Computer Science & Engineering, Presidency University, Bengaluru, India
Department of Computer Science & Engineering, GITAM University, Bengaluru, India

DOI: <https://doi.org/10.1007/s40032-023-00912-5>
Online published date: 30 January 2023
Pages: 439 - 439

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Authors: **Ashwini K. Patil & Archana G. Thosar**
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Pages: 441 - 441

Title: **RETRACTED ARTICLE: Review on High-Impedance Fault Detection Techniques**

Authors: **Prashantkumar V. Dhawas, Prashant P. Bedekar & Praful V. Nandankar**
Department of Electrical Engineering, Government College of Engineering, Gondwana University, Chandrapur, India
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- Department of Electrical Engineering, Government College of Engineering, Nagpur University, Nagpur, India
DOI: <https://doi.org/10.1007/s40032-023-00932-1>
Online published date: 01 April 2023
Pages: 443 - 443
- Title: **RETRACTED ARTICLE: A Review of Cell-Aware Test Patterns to Reduce the DPPM and Test Results from 7 nm**
Authors: **Renold Sam Vethamuthu Edward Alaises & Sivanantham Sathasivam**
School of Electronics Engineering (SENSE), Vellore Institute of Technology, Vellore, Tamil Nadu, 632 014, India
DOI: <https://doi.org/10.1007/s40032-023-00935-y>
Online published date: 05 April 2023
Pages: 445 - 445
- Title: **Exploring Black Holes: From Hawking Radiation to Quantum Hair-Insights and Challenges in Modern Astrophysics**
Authors: **Nand Jee Kanu, Eva Gupta & Vijay Kumar Gupta**
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Secunderabad, 500010, India
DOI: <https://doi.org/10.1007/s40032-024-01125-0>
Online published date: 26 November 2024
Pages: 447 - 461
- Title: **Rotor Dynamics: Modeling and Analysis - A Review**
Authors: **Dinesh Kumar Pasi, Ashesh Tiwari & Manoj Chouksey**
Department of Mechanical Engineering, Shri G. S. Institute of Technology and Science, Indore, India
Mechanical Engineering Department, IET-Devi Ahilya University, Indore, India
DOI: <https://doi.org/10.1007/s40032-024-01135-y>
Online published date: 16 December 2024
Pages: 463 - 476
- Title: **Production of Metallic Foam and its Behavior at Different Strain Rates: A Review**
Authors: **Avinash, Mohammad Mursaleen & Navin Kumar**
Department of Mechanical Engineering, National Institute of Technology Srinagar, Srinagar, Jammu and Kashmir, India
Department of Mechanical Engineering, Indian Institute of Technology Ropar, Bara Phool, Punjab, India
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Online published date: 12 December 2024
Pages: 477 - 494
- Title: **Advancements in Carbon Fiber Reinforced Liquid Silicone Rubber: A Scientometric Analysis**
Authors: **Uppula Ramya, Pulla Sammaiah, Medabalimi Subbarao, Vutukuru Mahesh & K. Satheesh Kuma**
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Online published date: 18 December 2024
Pages: 495 - 504

Title: **On 3D Printed Sandwich Meta-structures for Improved Wear Characteristics**
Authors: **Rupinder Singh, Minhaz Husain, Sahil Mehra & Vinay Kumar**
Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India
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DOI: <https://doi.org/10.1007/s40032-024-01138-9>
Online published date: 16 December 2024
Pages: 505 - 514

Title: **Analysis and Prevention of Automotive Component Failure: A Case Study**
Authors: **Vinod G. Surange, Lokpriya Gaikwad & Shivagond Nagappa Teli**
Symbiosis Institute of Business Management, Nagpur, Symbiosis International (Deemed University), Pune, India
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Online published date: 16 December 2024
Pages: 515 - 528

Title: **Quadrotor Trajectory Tracking and Simultaneous Localization and Mapping Implementation in CoppeliaSim**

Author: **Chao Liu**
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(xi) Book Chapter Number	
(xii) Publisher Details	
(xiii) ISBN	
(xiv) Date of Publication (Date-Month-Year)	
(xv) Co-authors (if any)	
(xvi) About the book (100-150 words)	
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CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMMES (CPDP) FOR THE MONTH OF APRIL 2025

Sl. No.	Name of the Course	Scheduled Dates
1.	Advances in Foundry Processes, Technology, Casting and Inspection	07 – 11 April
2.	Bio Medical Waste Management – Handling & Safe Disposal Options with New Rules 2016	07 – 09 April
3.	Communication and Presentation Skills for Technologists, Engineers and Officers	07 – 09 April
4.	Comprehensive Course on Drilling and Blasting for Engineers & Managers	07 – 11 April
5.	Heat Treatment – Furnaces, Processes and Innovations	14 – 17 April
6.	Cyclone Resistant Building Construction	21 – 25 April
7.	3D Printing in Manufacturing	21 – 24 April
8.	Vibrations, Balancing, Alignment and Condition Monitoring of Rotating Equipments (Theory and Practical Orientation with Site Visit)	21 – 25 April
9.	Mine Legislation and Management Safe Practices in Opencast Mines	21 – 25 April
10.	Advanced Wastewater Treatment and Reuse Technologies	22 – 25 April
11.	Failure Analysis of Distribution Transformers - O&M achieving Zero Breakdown	22 – 25 April
12.	Instrumentation and Seismic Analysis of Gravity Dams with Software Applications	22 – 24 April
13.	Sustainable Solutions for Long-Term Lake Restoration	23 – 25 April
14.	Project Management & Monitoring using MS Project 2021	23 – 25 April
15.	Advances in Design & Optimization of UAV's for Industrial Applications (Defense, Mining & Construction)	28 April – 02 May
16.	Management of Training for Training & HR Managers	28 – 30 April