

A Century of Service to the Nation

Volume 10 | Issue 7 | July 2025

Inside this issue

- 2 Notification on the R&D
- 3 Members in the News
- 3 40th Indian Engineering Congress
- 5 Publication by Members
- 5 Know-Your-Member (KYM)
- 7 Professional Engineers (PE) Certification by IEI — A Pathway towards Success
- 8 Be Proud to be a Certified International Professional Engineers (IntPE) by IEI
- 9 IEI-Springer Journals
- 11 IEI Industry Excellence Award 2025 & IEI Engineering Education Excellence Award 2025
- 12 Articles Published in Latest Issue of IEI Journals
- 16 Discount at the Samsung e-store for IEI Corporate Members
- 16 Corporate Air Ticketing for IEI Members
- 17 Announcement on the National Conventions
- 20 Nota Bene
- 24 Notification for Advertisement in IEI Epitome
- 25 Continuing Professional Development Programmes of ESCI

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President
Er VB Singh

Editor

Maj Gen (Dr) MJS Syali, VSM (Retd)
Secretary & Director General

Special Contribution

Mr S Chakraverty, Dr K Sen, Mr D Nath, Mr S Bagchi, Mr B Mukherjee, Mr P Barik, Ms P Nath,
Ms T Kumar, Mr S K Mishra

Design & Outlay
Ms H Roy

Published by:

The Institution of Engineers (India)
8 Gokhale Road, Kolkata 70020

Telephone : 91-33-40106299/248, E-mail : newsletter@ieindia.org, Website : http://www.ieindia.org

**IEI
EPITOME**

Notification on the R&D

Volume 10 | Issue 7 | July 2025

IEI R&D Grant-in-Aid

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.

Like every year, the Institution invites applications for the session 2025-26 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 investigator(s), guide(s) and Institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership	Quantum of Grant (INR)
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory	Not exceeding ₹15,000/- for a single project
2. UG (BE/ BTech/ AMIE/ Equivalent)	SMIE	AMIE/ MIE/ FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation	Not exceeding ₹50,000/- for a single project
3. PG (ME/ MTech/ Equivalent)	AMIE/ MIE/ FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation	Not exceeding ₹1,00,000/- for a single project
4. PhD	AMIE/ MIE/ FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation	Not exceeding ₹1,50,000/- for a single project

The soft copy of the duly filled-up applications (in editable format), as per the pro-forma available in 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

Applications received in format other than that available on our website will not be accepted. Application should be forwarded through the Guide, Head of the Department or Head of the Institution. Please note that preference will be given to project proposals received from Institutions who are Members of The Institution of Engineers (India) and with NBA / NAAC Accreditation. Kindly go through the guidelines (visit link <https://shorturl.at/BiAOQ>) carefully before filling up the application.

The grant is not intended for the faculty members / working individuals who have access to other avenues of research funding. Proposals received will be scrutinized and the recipients of R&D Grant will be informed accordingly.

Members in the News

Volume 10 | Issue 7 | July 2025



Er Ashok Kumar Basa, FIE
Past President, IEI & Managing Director
CEM Engineers & Consultants (P) Ltd., Bhubaneswar, Odisha
✉ akb.beb@gmail.com

Er Ashok Kumar Basa received the **Distinguished Alumnus Award - 2024** from National Institute of Technology Rourkela on 20 June 2025 for his outstanding contributions to the field of Civil Engineering that includes design and construction of structures, as well as for his impactful role in Global Engineering Governance.



Dr Saubhagya Kumar Panigrahi, FIE
Associate Professor
Department of Civil Engineering, Veer Surendra Sai University of Technology, Burla, Odisha
✉ skpanigrahi_ce@vssut.ac.in

Dr Saubhagya Kumar Panigrahi received the **Er. L. M. Patra Memorial Award** during the 64th Annual Technical Session & 21st Prof (Dr) Bhubaneswar Behera Memorial Lecture held on 11 May 2025 at The Institution of Engineers (India), Odisha State Centre, Bhubaneswar for his outstanding paper titled “Resource Conservation and Waste Management through E-Waste Utilization as Aggregates in Construction Sector”.



40th Indian Engineering Congress

19-21 December 2025

Theme

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Members in the News

Volume 10 | Issue 7 | July 2025

The following esteemed Corporate Members were conferred with the prestigious **Professional Engineer (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 Anish Goswami, MIE & PE7007774 (Certified Professional Engineer, IEI)
Assistant Director, Department of Defence Govt. of India, Secunderabad, Telangana
Field : Mechanical Engineering
✉ anishgoswami34@gmail.com
Valid from: 19 June 2025
Valid up to: 30 June 2030



Er Manivannan S, MIE & PE7007758 (Certified Professional Engineer, IEI)
Shift Manager (Utility), Reliance Industries Limited, Barabanki, Uttar Pradesh
Field : Mechanical Engineering
✉ shanmugamani13@gmail.com
Valid from: 19 June 2025
Valid up to: 30 June 2030



Er Tarique Ahmad, AMIE & PE7007766 (Certified Professional Engineer, IEI)
Principal Engineer, Equipment Engineering, Wood India Engineering and Projects Pvt. Ltd., Chennai, Tamil Nadu
Field : Mechanical Engineering
✉ ahmadtarique058@gmail.com
Valid from: 19 June 2025
Valid up to: 30 June 2030



Er Narendrakumar Mohanbhai Patel, MIE & PE7007782 (Certified Professional Engineer, IEI)
Proprietor, Founder of Melior Engineering and Consulting Service, Gujarat
Field : Mechanical Engineering
✉ meliorengineers@gmail.com
Valid from: 19 June 2025
Valid up to: 30 June 2030



Er Satish Kumar K, MIE & PE7007790 (Certified Professional Engineer, IEI)
Deputy General Manager (Contract), Dilip Buildcon Ltd, Bhopal
Field : Civil Engineering
✉ ksatish24@yahoo.com
Valid from: 19 June 2025
Valid up to: 30 June 2030

Publication by Members

Volume 10 | Issue 7 | July 2025

Book Chapters



Cdr Prof Dr Ashok Kumar Dua, FIE

Independent Researcher

All India Management Association (AIMA), Aligarh Muslim University (AMU) PhD Program

✉ dua.ashokk@gmail.com

Title of Book Chapter: Leadership for Resilient and Socially Sustainable Organizations Post COVID-19 Era – An Exploratory Study

Chapter 8, Responsible Corporate Leadership Towards Attainment of Sustainable Development Goals, Part of the book series: Responsible Leadership and Sustainable Management ((RLSM)), Springer, Singapore, 01 October 2024, pp 143-164, Print ISBN 978-981-97-1385-1, Online ISBN 978-981-97-1386-8

DOI: https://doi.org/10.1007/978-981-97-1386-8_8

Co-author: Risha Murgai

***Abstract:** The purpose of this study is to examine the nature of the impact of the ongoing COVID-19 pandemic that has adversely impacted human beings socially, environmentally, and economically, who are yet to come to terms with this devastating crisis. Organizations not only in India but also across the world need to understand the nature of its impact and prepare accordingly to face similar challenges in future by developing appropriate strategies, leadership behaviors, and competencies. Survey data were collected from leaders across industries through a questionnaire. The findings showed that the impact of the crisis was severe and to face similar challenges, organizations need to develop leaders who are empathetic, responsive, trusting, and people and environmentally friendly. As the study is qualitative in nature, it is indicative and hence no generalizations could be made. Yet, important decisions could, however, be made for building responsive, resilient, and socially sustainable organizations based on the qualitative analysis. The study has implications for managers to understand the impact of a crisis like COVID-19 to strategize and prepare their organizations for facing COVID-19 like pandemic in future. The research in the area of leadership in the face of a crisis like COVID-19 is lacking and fragmented and thus an attempt to fill this wide gap in the extant literature. The research conducted in the context of COVID-19 pandemic in India is original and makes an immense contribution to prepare organizations to be ready for the new normal in future. It also suggests leadership behaviors and competencies needed for resilient and socially sustainable organizations for people, planet, and prosperity for all.*

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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
<https://shorturl.at/8Q5tF>

or

scan the code:



Publication by Members

Volume 10 | Issue 7 | July 2025



Dr Abhijit Mukherjee, FIE

Associate Professor & Coordinator (International & Domestic Linkages)

National Institute of Fashion Technology, Kolkata (Ministry of Textiles, Govt. of India)

✉ abhijit.mukherjee@nift.ac.in, drprofabhijit@gmail.com

Title of Book Chapter: Present Challenges and Future Opportunities of Sustainable Retailing in the Apparel Industry

Chapter 4, Sustainable Apparel Retailing, Part of the book series: Sustainable Textiles: Production, Processing, Manufacturing & Chemistry ((STPPMC)), Springer, Cham, 21 March 2025, pp 59–95, Print ISBN 978-3-031-83874-3, Online ISBN 978-3-031-83875-0

DOI: https://doi.org/10.1007/978-3-031-83875-0_4

Co-author: Laxmi Bharti

***Abstract:** Sustainable apparel retailing plays a pivotal role in addressing environmental and social concerns, making it imperative to understand the challenges, leverage opportunities, and anticipate future trends in this dynamic sector. This chapter explores a comprehensive analysis of the complex landscape of sustainable apparel retail, elucidating the array of challenges, opportunities, regulatory frameworks, case studies, and future trends shaping this dynamic sector. Through an in-depth examination, it investigates the critical challenges confronting retailers, including sourcing sustainable materials, ensuring transparency and traceability in the supply chain, navigating cost implications, and reconciling sustainability objectives with prevailing fashion trends and design paradigms. Conversely, it delineates the promising avenues available to retailers, encompassing innovative strategies related to materials sourcing and manufacturing processes, strategic collaborations with sustainable fashion stakeholders, nuanced marketing and communication approaches, and introducing sustainable packaging and logistics solutions. Moreover, this chapter thoroughly examines the regulatory and certification frameworks governing sustainable apparel retailing, providing insights into prominent sustainability certifications such as Fair Trade, GOTS, and B Corp. It further delves into considerations regarding compliance with environmental and labour standards alongside pertinent legal considerations.*

Additionally, through a meticulous analysis of case studies and best practices, the paper illuminates successful initiatives in sustainable apparel retailing, drawing from exemplary endeavours by leading sustainable fashion entities and offering tailored strategies for effectively adopting sustainable practices by small- and medium-sized retailers. Lastly, this chapter casts a forward-looking perspective, elucidating emerging technologies and innovations, evolving consumer preferences, market dynamics and avenues for growth and expansion within the sustainable apparel retail sector. This study offers a robust framework for comprehensively understanding and navigating the challenges, leveraging the opportunities, and strategically positioning oneself amidst the evolving landscape of sustainable apparel retail.

Title of Book Chapter: The Development and Challenges of Infant Diapers Ensuring Good Health with Sustainability Aspects: Landscape of UN Perspective

Chapter 7, Sustainable Textile and Apparel Chain Management, Part of the book series: Sustainable Textiles: Production, Processing, Manufacturing & Chemistry ((STPPMC)), Springer, Cham, 9 March 2025, pp 155–190, Print ISBN 978-3-031-80239-3, Online ISBN 978-3-031-80240-9

DOI: https://doi.org/10.1007/978-3-031-80240-9_7

***Abstract:** The utilization of diapers is a critical component of contemporary infant care, as societal and physiological demands require it for caregivers in the modern era. This book chapter explores the multi-dimensional world of diapers, explaining their primary functions, diversified varieties, applications and materials. With a discerning eye on current market trends, sustainability imperatives and emerging challenges, the chapter navigates through the intricate landscape of the UN perspective of diaper technology. It also aligns diaper developments with the United Nations Sustainable Development Goals, emphasizing sustainable alternatives that prioritize preserving the environment, ethical consumption and health. As explored herein, the primary function of diapers extends beyond moisture absorption and liquid retention; it encompasses the containment of waste, maintenance of skin health and facilitation of mobility. Various diapers, from traditional cloth to modern disposables, are meticulously examined alongside their advantages and limitations.*

Additionally, the chapter scrutinizes diaper construction and materials, illuminating the intricate engineering and scientific formulations behind their efficacy. Critical attention is devoted to the sustainability criteria governing diaper production and disposal. With scholarly precision, challenges such as toxic materials, frequent skin issues like diaper dermatitis and the use of super-absorbent polymer (SAP) are dissected. Additionally, the chapter explores the ongoing progress of sustainable solutions to conventional disposable diapers, emphasizing exciting advances and their potential to reduce environmental impact while maintaining efficacy and safety.

This chapter also extrapolates potential developments, emphasizing the burgeoning interest in reusable diaper solutions. The study combines scientific investigation with practical insights, making it an authoritative resource for academics, practitioners and stakeholders committed to promoting baby care via innovation and sustainability.

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Publication by Members

Volume 10 | Issue 7 | July 2025

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Title of Book Chapter: Navigating the Shift: The Zero-Waste Paradigm in Apparel Manufacturing

Chapter 6, Zero Waste Sustainable Apparel Industry, Part of the book series: Textile Science and Clothing Technology ((TSCCT)), Springer, Cham, 13 December 2024, pp 99–115, Print ISBN 978-3-031-76541-4, Online ISBN 978-3-031-76542-1

DOI: https://doi.org/10.1007/978-3-031-76542-1_6

Co-author: Aratrika Bhattacharya

Abstract: Biodegradable fibres and fabric scraps are included in the solid waste from textile operations along with non-biodegradable components from clothing production. Waste accumulates significantly due to the energy-intensive and resource-intensive industrial processes and practices used to make textiles. It is estimated that the waste resulting from the growing demand for fast fashion will create textile waste of 60% by 2030 worldwide. Less than 1% of the material is recovered for new goods, resulting in a loss of over USD 100 billion annually. This trash poses challenges to traditional linear waste treatment systems, which has led to an increase in sustainable waste management strategies like Zero Waste (ZW) and the Circular Economy (CE), which are gaining popularity nowadays. ZW aims to radically reinvent industrial processes to eliminate waste generation by focusing on resource recovery, reuse, and waste reduction. The fashion industry increasingly uses ZW concepts via different techniques such as eco-design, cleaner production, and product stewardship. These strategies aim to reduce waste at every stage of the product lifetime, including the acquisition of raw materials, manufacture, customer consumption, and end-of-life disposal. However, there are still challenges in implementing ZW principles to mass production since pattern grading, fabric utilization, and design integration are intricate procedures. However, with ongoing research and innovative concepts, there is great potential for reducing textile waste and promoting sustainable fashion design and production practices.

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Publication by Members

Volume 10 | Issue 7 | July 2025

Paper published in the Journals / Proceedings



Cdr Prof Dr Ashok Kumar Dua, FIE

Independent Researcher

All India Management Association (AIMA), Aligarh Muslim University (AMU) PhD Program

✉ dua.ashokk@gmail.com

Title of Paper: **Tata Does Not Mean Goodbye: Is Air India Going to Bring Back Old Saga?**

General Management/Strategy; Human Resource Management, Ivey Publishing, 13 August 2024

URL: <https://www.thecasecentre.org/products/view?id=201242>

Co-author: Sumita Rai

Abstract: The Tata Group took over control of the loss-making state-owned Air India and the airlines it operated from the Government of India on January 27, 2022. The Tata Group now faces financial performance issues and lags behind one of the leading aviation industry front-runners in India in terms of market share. The re-acquisition of Air India also brought about challenges of how to amalgamate three diverse cultures to make a single Tata Group culture, and how to inculcate the Tata Group's values to turn Air India profitable. What should Air India do if employees are not integrated with Tata Group culture? Air India leadership is weighing its various options and pondering whether to integrate three airlines and become one of the prominent airlines in the country and the world, or operate them autonomously as economy or premium airlines without amalgamating the diverse cultures.

Keywords: Culture; Change; Performance; Strategy; Leadership; Values; Transformation; General management; Human resource management

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Who can apply for International Professional Engineers?

Basic Requirements for certification as International Professional Engineer

- © Bachelor's Degree in Engineering or equivalent recognised by Statutory Authority or Government of India;
- © Experience of 7 years in engineering practice. Out of 7 years of experience 2 years in a responsible position of significant engineering activity.

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International Professional Engineer (Int.PE) Certification enables engineering professionals to advance their career aspiration in wide ranging ways.

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For any query and assistance, please send email to: pe@ieindia.org or contact (033) 40106220

Publication by Members

Volume 10 | Issue 7 | July 2025



Dr Saubhagya Kumar Panigrahi, FIE

Associate Professor

Department of Civil Engineering, Veer Surendra Sai University of Technology, Burla, Odisha

✉ skpanigrahi_ce@vssut.ac.in

Title of Paper: Realization of GGBFS-based Self-compacting Geopolymer Concrete through Ternary Blended Alkaline Activator Solution

Construction and Building Materials, Elsevier, 486, 01 June 2025, Online ISSN: 1879-0526, Print ISSN: 0950-0618

DOI: <https://doi.org/10.1016/j.conbuildmat.2025.141986>

Co-authors: Soumyaranjan Panda & Jharana Pradhan

Abstract: Geopolymer concrete (GPC) is a sustainable alternative to conventional concrete, utilizing distinct waste material species in its production. Self-compacting geopolymer concrete (SCGC) is attaining global recognition due to its integrated characteristics of GPC and self-compacting concrete (SCC), banishing the mechanical compaction obligation. The key components realizing geopolymerization are precursors and activators. Among diversified precursors, ground granulated blast furnace slag (GGBFS)-based SCGC mixes illustrate superior short-term and long-term accomplishments. The current study explores the effects of introducing potassium alkali metal in the form of potassium hydroxide (PH) and potassium silicate (PS) into the sodium-based binary blended alkali activated solution (AAS) consisting of sodium hydroxide (SH) and sodium silicate (SS) to form a ternary blended AAS. The prime objective of the research is to assess the optimal ternary blended AAS and the ill-performing AAS composition through detailed fresh and hardened SCGC characterization. The primary objective of this research was achieved by developing nine different SCGC mixes, including a control mix based on a binary sodium-based AAS composed of SH and SS. Four of the mixes were prepared with a combination of SS and hydroxide solutions of sodium and potassium at changing proportions (SH: PH) [(75:25), (50:50), (25:75), and (0:100)]. The remaining four mixes included a combination of SH and silicate solutions of sodium and potassium at varying combinations (SS: PS) [(75:25), (50:50), (25:75), and (0:100)]. The mapped out objective was contented with following conclusions that the SCGC mix with optimal ternary blended AAS compositions are SH: PH (50:50) along with SS 100%, and SH 100% along with SS: PS (25:75) and SCGC mixes should not be composed with 100% SH along with 100% PS or 100% PH along with 100% SS as AAS.

Keywords: SCGC; Alkaline activators; Mechanical Properties; Durability Properties; RCPT



IEI-Springer Journals



ISSN Print 2250-2149
ISSN Electronic 2250-2157

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19



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11

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Publication by Members

Volume 10 | Issue 7 | July 2025



Professor Prashant M Menghal, FIE

Professor

Military College of Electronics and Mechanical Engineering Secunderabad, Telangana

✉ prashant_menghal@yahoo.co.in

Title of Paper: **Target Classification in Radar Using Deep Learning**

Proceedings of 2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE), IEEE, 25 April 2025, Electronic ISBN: 979-8-3315-4210-8, Print on Demand (PoD) ISBN: 979-8-3315-4211-5

DOI: <https://doi.org/10.1109/SSDEE64538.2025.10967871>

Co-authors: Suchitra Sahu & Perumulla Abhiram

Abstract: In radar systems, precise target classification is essential for effective situational awareness. We developed a Convolutional Neural Network (CNN)-based approach to classify radar targets using their signal characteristics automatically. Compared to traditional methods, our solution demonstrates higher accuracy, robustness, and computational efficiency while addressing challenges like data labelling, interpretability, and signal variability. The results highlight the potential of deep learning to transform radar systems, enhancing applications in military surveillance and autonomous navigation. This work marks a significant step toward seamlessly integrating deep learning with radar technologies.

Keywords: Deep Learning; Convolutional Neural Networks (CNN); Military Surveillance; Radar Target Classification; Spectrogram

Title of Paper: **Design and Simulation of Antenna for Foliage Penetration Application**

i-manager's Journal on Electronics Engineering, 15(1), December 2024, pp 14-25, ISSN 2229-7286, E-ISSN 2249-0760

DOI: <https://doi.org/10.26634/jele.15.1.21143>

Co-author: Shakti Singh Parmar

Abstract: The foliage penetration radar system operates in the VHF/UHF range of the electromagnetic spectrum, allowing for greater radio frequency penetration compared to microwave frequencies while providing improved range and significant cross-range resolution. The multi-static ground-based foliage penetration radar comprises a transmitting and a receiving antenna. The unidirectional radiating transmitting antenna utilizes a VHF wideband transmitting signal, achieving fine localization accuracy over a larger coverage area while effectively penetrating foliage. However, achieving significant antenna gain or directivity while maintaining an acceptable size at VHF/UHF frequencies presents challenges. This paper focuses on the design and simulation of an antenna tailored for foliage penetration applications, emphasizing the balance between size and directivity.

Keywords: Foliage Penetration; Ultrawide Band; Antenna, Bandwidth; Gain, Return Loss; VSWR

Title of Paper: **Simulation and Analysis of Higher Frequency (F-Band) Automotive MIMO Radars with Military Applications**

i-manager's Journal on Electronics Engineering, 15(3), June 2025, pp 1-11, ISSN 2229-7286, E-ISSN 2249-0760

DOI: <https://doi.org/10.26634/jele.15.3.21843>

Co-author: Amika Gautam

Abstract: The Automotive Multiple Input Multiple Output MIMO Radar technology employs multiple transmitting and receiving antennas to significantly enhance radar performance, offering superior resolution and precise target detection capabilities. The need for this study arises from the increasing demand for precise, reliable radar systems in complex and cluttered military environments. The study aims to improve resolution, enhance target discrimination, and optimize radar performance under adverse conditions. Models utilized in this study include MIMO techniques, rain rate models, fog visibility models, and both frequency band F-band and wave band W-band radars. The proposed methodology encompasses designing and simulating antenna arrays, developing suitable waveforms, implementing advanced signal processing algorithms, and comparing performance metrics of different radar systems. Key steps involve antenna array configuration, radiation pattern analysis, beamforming, and performance testing in simulated scenarios. Results indicate that higher frequency radars offer improved data capacity, better range resolution, and higher jamming resistance compared to lower frequency systems. However, these higher-frequency radars also experience greater attenuation due to environmental factors like rain and fog. The proposed model significantly contributes to the comparison and selection of MIMO Radar systems for military applications, ensuring enhanced situational awareness, target acquisition, and operational effectiveness in demanding environments.

Keywords: MIMO; Radar; Target Detection; Jamming; Range Resolution

Publication by Members

Volume 10 | Issue 7 | July 2025



Dr Abhijit Mukherjee, FIE

Associate Professor & Coordinator (International & Domestic Linkages)
National Institute of Fashion Technology, Kolkata (Ministry of Textiles, Govt. of India)

✉ abhijit.mukherjee@nift.ac.in, drprofabhijit@gmail.com

Title of Paper: **UV Protection by Plasma and Nanotechnology for Value Added Textiles**

“Technical and Value Added Textiles”, Annual Technical Volume of Textile Engineering Division Board, The Institution of Engineers (India), VI, 22 December 2024, ISBN 978-81-966131-9-8

URL: <https://www.ieindia.org/webui/IEI-Publication.aspx#annual-technical-volume>

Co-authors: Bijaya Dasgupta & Soumya Sneha

Abstract: Ultraviolet radiation has been a matter of constant concern throughout for the various skin diseases it causes, along with the deadly disease of cancer. Although ultraviolet rays constitute a small amount in the solar spectrum, they adversely affect all living organisms and their metabolism. Due to its severe impact, there has been a growing demand for UV-protected clothing. Advancements in nanotechnology have paved the way for various UV-protective textiles using nanoparticles such as metal oxides and plasma. Plasma is a dry processing technique that reduces the use of chemicals, water, and energy compared to the traditional method of application of finishes. Various experiments have been conducted to coat the textiles with nanoparticles such as TiO₂ and ZnO to enhance UV absorption capacity and the UPF value to protect the human skin. This chapter will examine UV rays and the importance of protection from their adverse effects. It will cover different ways of blocking UV rays, measuring the Ultraviolet protection factor (UPF) and the clothing factors that affect UPF. Besides, the chapter will entail an overview of various types of UV absorbers and UV protective clothing. It will also discuss nanoparticle coatings used for enhancing UV protection and the durability of these protective finishes.

Keywords: Ultraviolet radiation; Nanotechnology; Nanoparticles; TiO₂; ZnO; Plasma; Air-plasma

IEI Industry Excellence Award 2025

Request for Participation

The IEI Industry Excellence Award has been instituted to recognize industry leaders for their innovation, excellence in engineering operations and thereby, to lead their industry in competitive manner. The benchmarks created by the industries in India have included productivity, quality, safety and performance assurance thereby giving India the rightful place in the global markets. Realizing that such industries can provide the leadership to a large number of other industries in the country, it has been considered appropriate by the IEI Council to institute the IEI Industry Excellence Awards in the year 2008.

Applications in specified format (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award>) are invited from prospective applicants for IEI Industry Excellence Award 2025. The last date of receipt of application for the Award 2025 is **30 October 2025**. Interested applicants are requested to send their applications (Two hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

Deputy Director (Technical)

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

IEI Engineering Education Excellence Award 2025

Request for Participation

The IEI Engineering Education Excellence Award has been instituted to recognize leading Engineering Educational Institutions and encourage for better and more effective engineering education across the country. The engineering education sector has witnessed significant development, setting benchmarks for others to follow. Universities and institutions have expanded their scope beyond pedagogy and now engage in R&D activities, consultancy, patents, publications, skill development programs, industry interface, and the implementation of the New Education Policy (NEP), contributing to India's global prominence. Recognizing that such institutions can lead and inspire numerous others in the country, the IEI Council has decided to establish the IEI Engineering Education Excellence Awards.

Prospective applicants are invited to submit their applications in the specified format (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#engineering-education-excellence-award>) for the IEI Engineering Education Excellence Award 2025. The deadline for submitting of applications for the Award 2025 is **30 October 2025**. Interested applicants are requested to submit their applications (Four hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

Deputy Director (Technical)

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

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 7 | July 2025



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

|Computer, Electrical, Electronics & Telecommunication Engineering|

(Electronic ISSN: 2250-2114; Print ISSN: 2250-2106)

[CiteScore: 3.1; h5 Index: 24]

[SCOPUS Indexed]

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Volume 106, Issue 3, June 2025

Special Issue : Biomedical and Process Instrumentation

Title: **A Novel Heart Disease Disorder Prediction Using Faster Recurrent Neural Network**
Authors: **K Vetrivelvi & G Karthikeyan**
Periyar Government Arts College, Cuddalore, Tamil Nadu, India
DOI: <https://doi.org/10.1007/s40031-024-01142-8>
Online Publication Date: 16 September 2024
Pages: 833–848

Title: **A Robust rPPG Approach for Continuous Heart Rate Measurement Based on Face**
Authors: **Sachin M. Karmuse, Arun L. Kakhandki & Mallikarjun Anandhalli**
D.K.T.E. Society's Textile and Engineering Institute, Ichalkaranji, India
KLS Vishwanathrao Deshpande Institute of Technology, Haliyal, India
KLS Gogte Institute of Technology, Belagavi, India
DOI: <https://doi.org/10.1007/s40031-022-00817-4>
Online Publication Date: 25 October 2022
Page: 849–860

Title: **An Optimized VLSI Implementation of the Least Mean Square (LMS) Adaptive Filter Architecture on the Basis of Distributed Arithmetic Approach**
Authors: **M. Nagabushanam, Sadashiva Chakrasali, S. L. Gangadharaiah, Sampath H. Patel, Gurumurthy Ramaiah & Raju Basak**
Dept. of Electronics and Communication Engineering, M.S Ramaiah Institute of Technology, Bengaluru, Karnataka, India
Textile Technology Technical and Vocational Training Institute, Addis Ababa, Ethiopia
Dept. of Electrical, Techno India University, Kolkata, India
DOI: <https://doi.org/10.1007/s40031-024-01028-9>
Online Publication Date: 15 March 2024
Page: 861–870

Title: **Automated Detection of Cardinal Points of ECG Signal for Feature Extraction Using a Single Median Filter**
Authors: **Avishek Paul, Nantu Das, Saurabh Pal & Madhuchhanda Mitra**
Department of Applied Electronics & Instrumentation Engineering, RCC Institute of Information Technology, Kolkata, West Bengal, India

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 7 | July 2025

Department of Applied Electronics & Instrumentation Engineering, Techno International
Newtown, Kolkata, West Bengal, India

Department of Applied Physics, University of Calcutta, Kolkata, West Bengal, India

DOI: <https://doi.org/10.1007/s40031-022-00754-2>

Online Publication Date: 04 June 2022

Pages: 871–882

Title: **Automated Estimation of Respiration Rate from a Single-Channel PPG Sensor for Implementation in IoMT-Enabled Portable Gadgets**

Authors: **Avishek Paul, Saurabh Pal & Madhuchhanda Mitra**

Department of Applied Electronics & Instrumentation Engineering, RCC Institute of
Information Technology, Kolkata, West Bengal, India

Department of Applied Physics, University of Calcutta, Kolkata, West Bengal, India

DOI: <https://doi.org/10.1007/s40031-023-00933-9>

Online Publication Date: 18 October 2023

Pages: 883–892

Title: **Classification of MI EEG Signal Using Minimum Set of Channels to Control a Lower Limb Assistive Device**

Authors: **Ganesh Roy & Subhasis Bhaumik**

Department of Aerospace Engineering and Applied Mechanics, Indian Institute of Engineering
Science and Technology, Shibpur, Howrah, India

Department of Instrumentation Engineering, Central Institute of Technology, Kokrajhar, Assam,
India

DOI: <https://doi.org/10.1007/s40031-022-00783-x>

Online Publication Date: 10 August 2022

Pages: 893–899

Title: **Deep Learning-Based Robust Hybrid Approaches for Brain Tumor Classification in Magnetic Resonance Images**

Authors: **S. Rama Krishna, Chittibabu Ravela, Srihari Varma Mantena, Mohammad Sirajuddin & G. Joel Sunny Deol**

Department of Computer Science and Engineering, GITAM (Deemed to be University),
Hyderabad, India

Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, K L
University, Vaddeswaram, India

Department of Computer Science and Engineering, SRKR Engineering College, Bhimavaram,
India

Department of Information Technology, Kallam Haranadhareddy Institute of Technology,
Dasarapalem, India

Department of Computer Science and Engineering, Kallam Haranadhareddy Institute of
Technology, Dasarapalem, Andhra Pradesh, India

DOI: <https://doi.org/10.1007/s40031-023-00916-w>

Online Publication Date: 28 September 2023

Pages: 901–915

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 7 | July 2025

- Title:** **Effective Time-Specific Text Marker with Congregation Collection Model for Spam Detection in Social Media Textual Reviews Using Machine Learning Techniques**
- Authors:** **P. Swetha & D. S. Rao**
Department of Computer Science Engineering, Konneru Lakshmaiah Educational Foundation (KLEF), Vidya Jyothi Institute of Technology, Hyderabad Campus, Aziz Nagar, Hyderabad, India
- DOI:** <https://doi.org/10.1007/s40031-023-00895-y>
- Online Publication Date:** 20 July 2023
- Pages:** 917–925
-
- Title:** **Identification of Biclusters in Huntington’s Disease Dataset Using a New Variant of Grey Wolf Optimizer**
- Authors:** **Joy Adhikary & Sriyankar Acharyya**
Department of Computer Science and Engineering, Maulana Abul Kalam Azad University of Technology, Kolkata, India
- DOI:** <https://doi.org/10.1007/s40031-022-00815-6>
- Online Publication Date:** 07 November 2022
- Pages:** 927–938
-
- Title:** **Intelligent Control of Double Boost Converter Interfaced with Multilevel Inverter for Electrical Vehicle Applications**
- Authors:** **Praveen Kumar Varanasi, S. Nagaraja Rao & Punithavathi Duraiswamy**
Department of Electrical Engineering, M.S. Ramaiah University of Applied Sciences, Bangalore, 560054, India
Department of Electronics and Communication Engineering, M.S. Ramaiah University of Applied Sciences, Bangalore, 560054, India
- DOI:** <https://doi.org/10.1007/s40031-022-00828-1>
- Online Publication Date:** 31 December 2022
- Pages:** 939–947
-
- Title:** **On Road Vehicle Detection and Tracking in Various Weather Conditions**
- Authors:** **Mallikarjun Anandhalli, Pavana Baligar, Vishwanath P. Baligar & Prakash S. Hiremath**
Department of Electronics and Communication Engineering, KLS Gogte Institute of Technology, Belagavi, Belagavi, India
Department of Information Science and Engineering, Smt. Kamala and Sri Venkappa M. Agadi College of Engineering and Technology, Laxmeshwar, India
Department of Computer Science and Engineering, KLE Technological University, Hubballi, India
Department of Master of Computer Application, KLE Technological University, Hubballi, India
- DOI:** <https://doi.org/10.1007/s40031-022-00782-y>
- Online Publication Date:** 10 August 2022
- Pages:** 949–958
-
- Title:** **Optimal Incremental Relay Design Using DF–AF Relay Combination by Outage Probability Analysis**
- Authors:** **Srijibendu Bagchi, Madhuri Deb & Tiya Dey Malakar**

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 7 | July 2025

DOI: <https://doi.org/10.1007/s40031-023-00903-1>
Online Publication Date: 01 June 2023
Pages: 959–963

Title: **Optimized Orthogonal Wavelet-Based Filtering Method for Electrocardiogram Signal Denoising**

Authors: **Maumita Das & Bikash Chandra Sahana**
Department of Electronics and Communication Engineering, National Institute of Technology, Patna., 800005, India

DOI: <https://doi.org/10.1007/s40031-022-00796-6>
Online Publication Date: 26 September 2022
Pages: 965–978

Title: **Performance Enhanced Nonlinearity Compensation of Thermocouple Using Convolutional Neural Network**

Authors: **Nancy Kumari & S. Sathiya**
Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India
National Institute of Technology Calicut, Kozhikode, Kerala, India

DOI: <https://doi.org/10.1007/s40031-023-00854-7>
Online Publication Date: 23 January 2023
Pages: 979–988

Title: **Performance Evaluation of Machine Learning Classifiers for Sudden Cardiac Arrest Detection**

Authors: **Prakash Banerjee, Saptak Bhattacharjee, Kousik Dasgupta & Shibaprasad Sen**
Department of Electrical and Electronics Engineering, University of Engineering and Management, Kolkata, India
School of Mechatronics and Robotics, Indian Institute of Engineering Science and Technology Shibpur, Howrah, India
Department of Computer Science and Engineering, Kalyani Government Engineering College, Kalyani, India
Department of Computer Science and Engineering, University of Engineering and Management, Kolkata, India

DOI: <https://doi.org/10.1007/s40031-022-00830-7>
Online Publication Date: 28 December 2022
Pages: 989–995

Title: **Periodic Disturbance Compensation of Peristaltic Pump: A State Feedback Repetitive Controller-Based Approach**

Authors: **Naiwrita Dey, Ujjwal Mondal & Anindita Sengupta**
Department of Electronics & Communication Engineering, RCC Institute of Information Technology, Kolkata, India
Department of Applied Physics, Calcutta University, Kolkata, India
Department of Electrical Engineering, Indian Institute of Engineering Science and Technology, Shibpur, Kolkata, India

Articles Published in Latest Issue of IEI Journals

Volume 10 | Issue 7 | July 2025

DOI: <https://doi.org/10.1007/s40031-022-00751-5>

Online Publication Date: 06 June 2022

Pages: 997–1003

Title: **Similarity Detection of Illuminance Images using Eigenface Method**

Authors: **Arijit Ghosh, Palash Kumar Kundu & Gautam Sarkar**

Department of Electronics & Instrumentation Engineering, RCC Institute of Information Technology, Kolkata, 700015, India

Department of Electrical Engineering, Jadavpur University, Kolkata, 700032, India

DOI: <https://doi.org/10.1007/s40031-022-00750-6>

Online Publication Date: 14 May 2022

Pages: 1005–1009

Title: **Time Measurement in Mass Spectrometry by Dual Circuits**

Author: **Mohammad Reza Motavalli**

Department of Electrical Engineering, University of Qom, Qom, Iran

DOI: <https://doi.org/10.1007/s40031-022-00829-0>

Online Publication Date: 05 December 2022

Pages: 1011–1019

Title: **Wind-PV based Generation with Smart Control Suitable for Grid-isolated Critical Loads in Onshore India**

Author: **Arunava Chatterjee**

Electrical Engineering Department, Raghunathpur Government Polytechnic, Purulia, West Bengal, 723121, India

DOI: <https://doi.org/10.1007/s40031-022-00827-2>

Online Publication Date: 08 November 2022

Pages: 1021–1031

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Announcement on the National Conventions

Volume 10 | Issue 7 | July 2025

**First Information Brochure
&
Call for Papers**

The Institution of Engineers (India)
A Century of Service to the Nation

**Fortieth National Convention of
Mechanical Engineers
and
National Conference
on
Recent Advances in Mechanical Engineering
[RAME 2025]**

August 23-24, 2025
Organised by
The Institution of Engineers (India)
Durgapur Local Centre
Under the aegis of
Mechanical Engineering Division Board, IEI
In Association With

**Department of Mechanical Engineering
National Institute of Technology Durgapur**

Venue
**National Institute of Technology Durgapur
M.G. Avenue, Durgapur-713209**

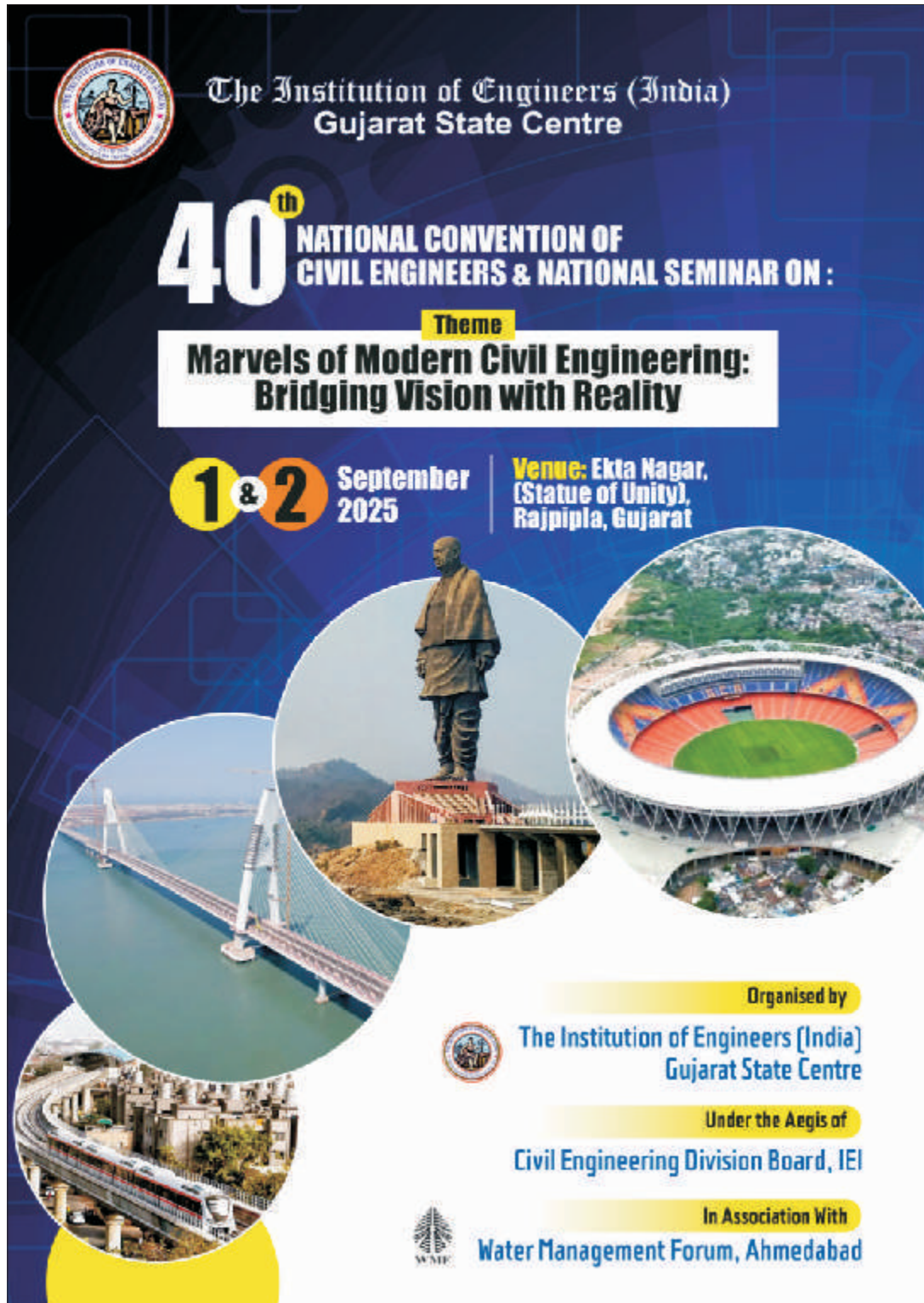
Selected Papers
will be recommended
for possible publication
in IEI-Springer Journal
after peer review


1

For details, please click here: <https://shorturl.at/p9ZGI>

Announcement on the National Conventions

Volume 10 | Issue 7 | July 2025




 The Institution of Engineers (India)
Gujarat State Centre

40th NATIONAL CONVENTION OF
CIVIL ENGINEERS & NATIONAL SEMINAR ON :


Theme
**Marvels of Modern Civil Engineering:
Bridging Vision with Reality**

1 & 2 September
2025

Venue: Ekta Nagar,
(Statue of Unity),
Rajpipla, Gujarat

Organised by
 The Institution of Engineers (India)
Gujarat State Centre

Under the Aegis of
Civil Engineering Division Board, IEI


In Association With
 Water Management Forum, Ahmedabad

For details, please click here: <https://shorturl.at/i2n84>

Announcement on the National Conventions

Volume 10 | Issue 7 | July 2025

First Information Brochure
&
Call for Papers



The Institution of Engineers (India)
A Century of Service to the Nation

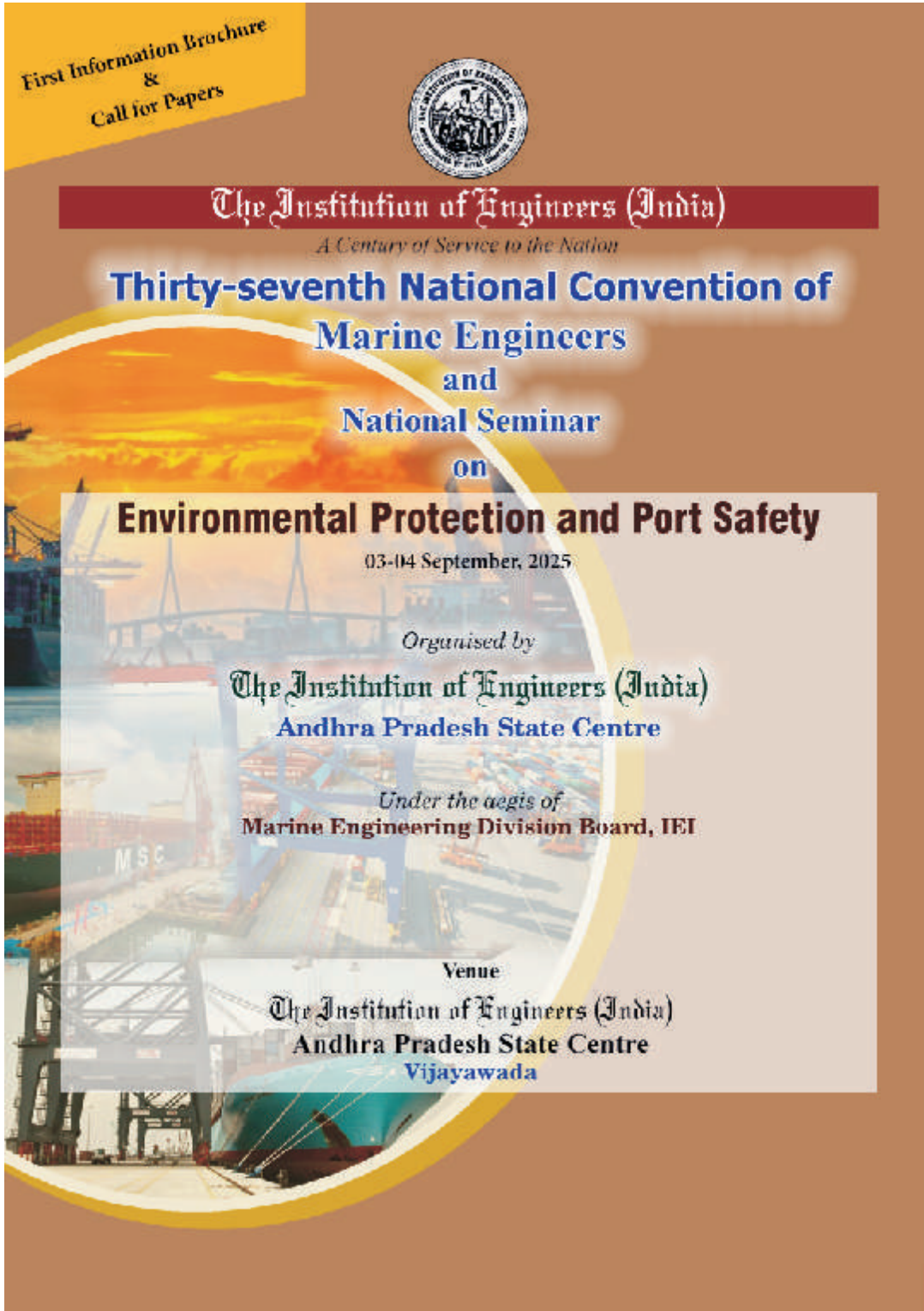
**Thirty-seventh National Convention of
Marine Engineers
and
National Seminar
on**

Environmental Protection and Port Safety
03-04 September, 2025

Organised by
The Institution of Engineers (India)
Andhra Pradesh State Centre

Under the aegis of
Marine Engineering Division Board, IEI

Venue
The Institution of Engineers (India)
Andhra Pradesh State Centre
Vijayawada



For details, please click here: <https://rb.gy/fn3zba>

We would like to thank our erudite members for sharing their professional achievements through the IEI Epitome and making the content more abounding and at the same time inspiring many others to share their accomplishments as well. To streamline the process and make it convenient for the member to give their inputs we would like to obtain the information in a more structured and comprehensive manner. We would request our members to send the details of their achievements as per the appended formats only.

FORMAT FOR ACHIEVEMENT BY MEMBERS

A passport size
color photograph
(scanned image)

(i) Prefix (Er/Dr/Prof)	
(ii) First Name	
(iii) Middle Name (if any)	
(iv) Surname (Last Name)	
(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Details of Award/Achievement#	
(x) Month & Year of Achievement/ Date of Achievement	
(xi) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

#Reporting of Award of stipend/fellowship at PG/PhD level and awards from esoteric events/communities may be avoided

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(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Tick the appropriate BOX	<input type="checkbox"/> Patent <input type="checkbox"/> Designs <input type="checkbox"/> Trade Marks <input type="checkbox"/> Geographical Indications
(x) Issuing Authority	
(xi) Serial No	
(xii) Patent No	
(xiii) Date of filing (DD/MM/YYYY)	
(xiv) Date of Grant (DD/MM/YYYY)*	
(xv) Patentee	
(xvi) Details of Patent	
(xvii) Term for which the above (ix) has been granted	

* Copy of Certificate of the Grant of Patent

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(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Title of Paper	
(x) Name of Journal/Proceeding/Technical Volume	
(xi) Volume No (Not required for Indian Engineering Congress)	
(xii) Issue No (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xiii) Theme (Only for Technical Volumes of IEI)	
(xiv) DOI: (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xv) ISSN	
(xvi) Date of Publication (Date-Month-Year)	
(xvii) Co-authors (if any)	
(xviii) Abstract in full	
(xix) 5/6 Keywords	
(xx) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

Note: Publications in local seminar, conference and symposia will not be accounted

FORMAT FOR PUBLICATION(S) BY MEMBERS — BOOKS/ BOOK CHAPTERS

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(i) Prefix (Er/Dr/Prof)	
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(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Title of Book	
(x) Title of Book Chapter	
(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)	
(xvii) Supporting Documents (complimentary copies for IEI Headquarters)/links [which are clearly indicative of the incumbent's achievement(s)]	

Note: Accommodate works published in journals/reputed conference proceedings/books for the last one year

Notification for Advertisement in IEI Epitome

Volume 10 | Issue 7 | July 2025

The Institution of Engineers (India) reserves a coveted privilege in being the largest multi-disciplinary professional body of engineers encompassing 15 engineering disciplines with a Corporate membership of over 2.59 lakhs maintaining a national/international presence through hundred twenty four Centres and six Overseas Chapters, Fora's and Organ (Engineering Staff College of India). The Institution has been disseminating the various information through IEI Epitome and other publications.

We would like to share with you that we are now providing the facility to advertise engineering / technical products/services, information brochure, recruitment notices etc. in our official publication portal IEI Epitome (12 issues - 196000 reach online). Besides, IEI Epitome is also uploaded on our website (www.ieindia.org) on a monthly basis and is accessible to all free of cost. Given its immense footprint in the engineering and technical diaspora spanning the globe, IEI with its distinguished heritage of a century provides you the ideal portal to connect with the National and International Engineering and Technical Community at very competitive rates. We invite you to take this unique and privileged opportunity to advertise and communicate your service and product portfolios under our prestigious banner and make us your brand emissaries in your promotional campaigns.

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	Inside Half Page	Colour	15,000		
	Inside Quarter Page	Colour	8,000		

Less discount* @%

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Autonomous Organ of The Institution of Engineers (India)
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ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)

Continuing Professional Development Programmes (CPDP) for the Month of August 2025

Sl. No.	Name of the Course	Scheduled Dates
1.	Mechanical, Chemical Testing and Metallurgical Characterization of Metallic materials– Concepts, Equipment, Calibration, Data Analysis	04 – 08 Aug 25
2.	Engineering Simulation using LS–DYNA– With Hands–on Approach	04 – 08 Aug 25
3.	E-Waste Management-Issues, Collection and Disposal Mechanism	04 - 05 Aug 25
4.	Workshop on NBA and NAAC Accreditation	04 - 06 Aug 25
5.	Cyber Security Tools & Security Audit	04 - 07 Aug 25
6.	Operation, Maintenance and Performance Monitoring of Centrifugal Pumps, Blowers and Compressors (including Reciprocating and Screw Compressors)	04 - 07 Aug 25
7.	Operation, Maintenance & Testing of Power Transformers and HT Circuit Breakers	04 - 07 Aug 25
8.	Quality Control and Engineering Inspection	04 - 06 Aug 25
9.	Benchmarking Studies of Water Use Efficiency	04 - 08 Aug 25
10.	Climate Change, Public Policy, and Governance: Strategies for Mitigation & Adaptation	05 - 07 Aug 25
11.	Environmental and Social Challenges During Blasting in Opencast Mines and Their Mitigation	05 - 07 Aug 25
12.	Disciplinary Proceedings	05 - 07 Aug 25
13.	Laser Welding Technology (Practical Oriented Training Programme)	11 - 14 Aug 25
14.	Distribution Automation & SCADA	11 - 13 Aug 25
15.	5S for Work Place Excellence	11 - 13 Aug 25
16.	Orientation course for Overburden Removal Contractors and MDO in Coal Mining Projects	12 – 14 Aug 25
17.	Condition Assessment of Railway Bridges	18 – 22 Aug 25
18.	Engineering Simulation using Solid Works– With Hands–on Approach	18 – 22 Aug 25
19.	Web Development using MERN Stack	18 - 23 Aug 25
20.	Strategic Management and Financial Acumen for Engineers, Officers and HR Managers	18 - 21 Aug 25
21.	Lean Six Sigma Green Belt	18 - 22 Aug 25
22.	Soil & Water Conservation: Importance and Best Practices	18 - 20 Aug 25
23.	Faculty Development Workshop on Advanced Pedagogy, Accreditation, Research and Entrepreneurship	19 - 21 Aug 25
24.	BOSS Linux Administration	19 - 22 Aug 25
25.	Latest Technologies in Solar PV - Battery Energy Storage System (BESS)	19 - 22 Aug 25
26.	Water Pollution Monitoring & Modelling using Software Applications – Theory & Practical's	20 - 22 Aug 25

For detail information please click on <https://escihyd.org/>