

IEI

Epitome

April 2018, Volume 3, Number 4

Members in the News

2

Publications by Members

5

**Programme by
Institutional Member**

13

New Institutional Member

14

Annual Technical Volume

15

IEI-Springer Journal

16

Book Review

17

**Notification for
IEI Industry Excellence Award**

18

**Call for Papers for
Annual Technical Volumes**

19

Members *in the News*



Mr S S Rathore, FIE

Past President of The Institution of Engineers (India)

Received *Padma Shri* Award in the field of Civil Service. Hon'ble President of India, Shri Ram Nath Kovind presented the award to Mr. Rathore on March 20, 2018 at a Civil Investiture Ceremony held at Rashtrapati Bhavan.

Prof (Dr) S C Naik, FIE

Past President of The Institution of Engineers (India)

Invited as Speaker at the International Conference on "Global Engineering Education" organised by Industrial Engineering and Operations Management (IEOM) Society in Bandung, Indonesia during March 6-8, 2018 and addressed various issues on formal and non-formal Engineering Education in some countries including its assessment and accreditation mechanisms.



Dr Suresh Vishwakarma, MIE

Senior Electrical Engineer, Vancouver, Canada

Awarded PhD in Management by University of Petroleum & Energy Studies, Dehradun, on January 31, 2018 on the topic, "Training Needs Assessment of Frontline Managers: A Case of Power Distribution Companies in Central India".



Dr Prabhudev S, FIE

Head, Section of Mechanical Engineering, Government Polytechnic, Kalburgi, Gulbarga, Karnataka



Invited as Guest Speaker in the Workshop on "Science and Technology for Sustainable Development" which was jointly Organised by Karnataka State Council for Science & Technology, Bangalore and Visvesvarayya Technological University, Regional Centre, Kalburgi on February 8, 2018.

Invited as Member in International Technical Programme Committee-2018 at

9th International Conference on "Mechanical and Intelligent Manufacturing Technologies (ICMIMT- 2018)", Cape Town, South Africa, February 10-13, 2018.

Mr Anil B Shelar, MIE

Manager-Training, Training & Placements, IDEMI (a Govt. of India Society), MSME-Technology Centre, Ministry of Micro, Small & Medium Enterprises, Govt. of India, Mumbai

Received "Innovative & Dedicated Excellent Engineer Award-2018" from Kathir College of Engineering, Coimbatore and The Society of Innovative Educationalist & Scientific Research Professional, Chennai on March 25, 2018.



Mr Giridhar V Thayoor, MIE

Assistant Manager & Environmental Officer, Bharatiya Reserve Bank Note Mudran (P) Ltd., Mysore

Completed PhD from University of Mysore in February 2018.



Mr Harisharan Aggarwal, AMIE

Head, Department of Electronics Engineering, Guru Kashi University, Punjab

Received Young Scientist (Management) Award [ITSR Foundation Award-2017] on November 25, 2017 at Jaipur.

Mr Amitosh Gautam, MIE

Deputy Director (Energy Management), National Productivity Council, Gandhinagar, Gujarat

Organized and coordinated four state level meets for Bureau of Energy Efficiency (BEE) Accredited Energy Auditors, Certified Energy Auditors and Energy Managers in the state of Gujarat in 2018.



Prof S Mohideen Badhusha, MIE

Department of Computer Science and Engineering, Alva's Institute of Engineering and Technology, Kannada District, Mangalore



Invited as Resource person in a College Level Workshop on "Development of Python Applications using MySQL, SQLite and XML" organized by Alva's Institute of Engineering and Technology, Mijar, Mangalore, during February 27 – March 03, 2018.



Members *in the News*

Dr Pranjal Kumar Phukan, MIE

Regional General Secretary, CASI Global US Executive Council Member, Hong Kong, Brand Ambassador, International Academy of Science, Engineering & Technology, New Delhi

Received the “Excellence in Supply Chain Planning” Award in the 3rd Edition of Global Logistics Show during Global Logistics Excellence Award function on February 23, 2018 at Mumbai. The theme of the summit was “Robust Logistics to Make in India” and the event was organized by Infinity Exhibitions & Conferences Pvt. Ltd. in association with CNBC TV18. The website address of the summit is <http://globallogisticsawards.com>



Prof Maulika S Patel, FIE

Head, Department of Computer Engineering, G H Patel College of Engineering & Technology, Vallabh Vidyanagar, Gujarat



Presented paper on “Deep Learning and GPU based approaches to Protein Secondary Structure Prediction” during 2nd International Conference on “Information Processing” organised by Vishwakarma Institute of Technology, Pune on March 3-4, 2018.

Prof Deepak Khare, FIE

Department of Water Resources Development & Management, IIT Roorkee

Received “Jal Nirmalata Puraskar” Award in 50th Annual Convention of Indian Water Works Association during February 19-21, 2018 at Goa.



Dr R Bhima Rao, FIE

Geo Scientist, Bhubaneswar



Felicitated with “Bhavan's Samman Odisha” by His Excellency the Governor of Odisha for the outstanding performance to the State of Odisha in Science and Technology on March 3, 2018 at Bharatiya Vidya Bhavan, Bhubaneswar.

Dr S Sivanaga Malleswara Rao, MIE

Telangana State Center, The Institution of Engineers (India)

Completed Postdoctoral Fellowship from the Department of Mechanical Engineering, Jawaharlal Nehru Technological University, Anantapur on the topic, “Development of Mobile Application in Android, iOS and Windows for Evaluation of Optimal Machining Parameters in WEDM” on February 12, 2018.



Dr Prabal Pratap, MIE

Scientist, DRDO, New Delhi

Awarded PhD in Electrical Engineering from NIT Kurukshetra in February 2018.



Mr S C Agarwal, FIE

Former President, ASI (K) Ltd. and Principal Consultant, JBB Technocrats Pvt. Ltd.

Presented paper on “Kotah Stone Quarry Waste: An Economical Source of Quick Lime in Lime Stabilisation of Soil in Rural Roads” during January 20-21, 2018 organised by The Institution of Engineers (India), Kota Local Centre and Rajasthan Technological University, Kota



Dr Sheik Mohammed S, MIE

Assistant Professor, Amal Jyothi College of Engineering, Kottayam, Kerala



Paper presented on “Comparative Study of Perturb & Observe and Look-Up Table Maximum Power Point Tracking Techniques using MATLAB/Simulink” during IEEE International Conference on “Current Trends towards Converging Technologies (IEEE ICCTCT 2018)” organised by

SVS College of Engineering, Coimbatore during March 1-3, 2018.

Selected for “Young Achiever Award 2018” presented by Institute for Exploring Advances in Engineering (IEAE).

Invited as Resource Person for Training Programme on “Grid Connected Solar PV System” for KSEBL Engineers, Kerala

Members *in the News*

Prof C M Narayanan, MIE

Former Professor, Department of Chemical Engineering, National Institute of Technology, Durgapur

Delivered the Invited Lecture on "Green Technologies for Deriving Wealth from Wastes with Special Reference to Bioplastic Synthesis" in the "International Conference on Reuse and Recycling of Materials (ICRM – 2018)" hosted by Mahatma Gandhi University, Kottayam, during March 9 – 11, 2018.



Mr Silak Ram, AMIE

ISGEC Heavy Engineering Ltd., Haryana



Received 68% score in "Decision Modeling", 70% score in "Market Research & Analysis", 64% score in "E-Business" and 62% score in "Integrated Waste Management for a Smart City", an online course by NPTEL

Mr PT Raghuram, FIE

Senior Scientific Officer (F), Chemical Engineering Department, Indian Institute of Science, Bangalore

Has attended the Advanced Chemical Security Workshop sponsored by US Department of State Chemical Security Program, conducted by the Oak Ridge National Laboratory (ORNL), Gujarat Chemical Association and Pandit Deendayal Petroleum University (PDPU) during January 21-24, 2018.



Mr Malvinder Singh, FIE

Chairman, The Institution of Engineers (India), Roorkee Local Centre, Roorkee



Enlisted in "Biographical Record in Famous India Nation's Who's Who 2018" Edition compiled by REGUERDON INC., New Delhi for the outstanding contributions in the field of Quality Management.

Mr Manejeet Parashar, AMIE

Dean & Head, Department of Electrical Engineering, MD University, Rohtak, Haryana

Paper presented on "A Study in Modelling and Optical Filter Applying Grid Connected Voltage Inverters using Hybrid PID and Fuzzy Controller in MATLAB" in the Conference on "Innovative Ideas in Electrical, Electronics Engineering & Automation" at Bhagwant University, Ajmer during February 19-20, 2018.



Mr Sajjan K Jose, FIE

Department of Civil Engineering, LBS College of Engineering, Kasaragod, Kerala



Paper presented on "Foamed Concrete using Waste Materials - A Review" in the 3rd International Conference on "Materials, Mechanics and Management" organised by Civil, Mechanical and Architecture Department, College of Engineering, Trivandrum during July 13-15, 2017.

Mr Keshab Chandra Chakraborty, FIE

The Institution of Engineers (India), West Bengal State Centre, Kolkata

Attended the International Conference on "Clean Technologies for Sustainable Development (CTSD)" during February 23-24, 2018 at NITTR, Chandigarh as Expert Faculty and presented a paper on "Renovation and Maintenance of Buildings: Clean and Green Technologies".



Prof Abhijit Mitra, FIE

Principal, Gargi Memorial Institute of Technology, Kolkata



Delivered a technical talk as an Invited Speaker at CVPR Unit, Indian Statistical Institute, Kolkata on March 19, 2018, on the topic, "Adaptive Signal Processing and Its Applications".

Publications by Members

Prof S K Mazumder, FIE

AICTE Emeritus Fellow, Delhi Technological University

Title of Paper : "Computation of Flood Discharge with & without Detention Basin", *Proceeding of National Seminar on "Management of Storm Water Drainage System in Urban India"*, 2017 organised jointly by Institution of Public Health Engineers, The Institution of Engineers (India), Delhi State Centre and Indian Water Resources Society, Roorkee at International Center, New Delhi.



Title of Paper : "Role of Detention and Retention Storage in Controlling Urban Flooding", presented in *All India Seminar on "Urban Flood Management: Challenges and Strategies in India"*, June 16-17, 2017, organized by The Institution of Engineers (India), Delhi State Centre jointly with Institution of Public Health Engineers and Indian Water Resources Society, Roorkee at Engineers Bhawan, New Delhi.

Title of Paper : "Some Hydrologic and Hydraulic Aspects of Planning and Design of Road Bridges", published in *Journal of the Indian National Group of the International Association for Bridge & Structural Engineering*, Vol. B&SE, Vol.47, No.1, 2017, pp.103-111.

Ms. Sowmyashree T, AMIE

Assistant Professor, Jain Institute of Technology, Davangere



Title of Paper : "Study on Strength Properties of Glass Fiber Reinforced Concrete made using Metakaolin and Waste Foundry Sand as Partial Ingredients", Vol.5, Issue 4, April 2017.

Title of Journal : "International Journal of Research in Engineering and

Technology",

Title of Paper : "Durability Properties of Glass Reinforced Concrete Made using Metakaolin and Waste Foundry Sand as Partial Ingredients", Vol.6, Issue 05, May 2017.

Mr Y Kamala Raju, MIE

Assistant Professor, Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad

Title of Paper : "Reinforced Cement Concrete Bridge Deck Design of a Flyover with Analysis for Dynamic Response Due To Moving Loads for Urban Development in Transportation Systems: A Case Study", *Proceeding of 2nd International Conference on "Emerging Trends in Engineering, Science and Technologies"*, February 16-17, 2018, Warangal.



Co-author(s): R Meher Babu and Mohd. Hussain

Prof Vijayan Gurumurthy Iyer, FIE

Dean (R&D), Narasaraopeta Engineering College, Guntur District, Andhra Pradesh



Title of Paper : "Total Quality Management or Continuous Improvement System in Education Sector and its Implementation Framework towards Sustainable International Development", *Proceeding of International Conference on "Computer Science , Electronics and Communication Engineering"*, Wuhan, China, February 7-8, 2018 [<http://www.csece2018.org/>]

Book Chapter in the Book entitled, "Advances in Computer Science Research", published by Atlantis Press (Print)

Title of Paper: "Social Impact Assessment Process for an Efficient Socio-Economic Transformation Towards Poverty Alleviation and Sustainable Development", *Proceedings of International Conference on "Advances in Pure and Applied Sciences"* (ISSN: 2547-880X), Science Park Research, Organization & Counselling (SPROC), 2018 [<https://sproc.org/ojs/index.php/paas/article/view/3175>]

DOI: <https://doi.org/10.18844/gipaas.v0i73175>

Publications by Members

Mr Nilanjan Sengupta, FIE

Director (Technical), The Institution of Engineers (India), Kolkata

Title of Paper : “Assessing Embodied GHG Emission Reduction Potential of Cost-effective Technologies for Construction of Residential Buildings of Economically Weaker Section in India”, *Asian Journal of Civil Engineering*, 2018, <https://doi.org/10.1007/s42107-018-0013-8> (online published), Springer International Publishing.



Co-Authors: S. Roy and H. Guha

Title of Paper: “Assessing Acceptability Criteria of Building Technologies to Design Appropriate Housing Schemes by Government of India for Economically Weaker Section”, *International Journal of Applied Engineering Research*, ISSN 0973-4562, Vol.13, No.3, 2018, pp.1769-1783.

Dr Sudhansu S Sahoo, MIE

Assistant Professor, Department of Mechanical Engineering, CET, Bhubaneswar



Title of Paper : “Risk Modeling of Domestic Solar Water Heater using Monte Carlo Simulation for East-Coastal Region of India”, *Energy*, Vol.145, pp.548-556, 2018, Elsevier.

DOI: <https://doi.org/10.1016/j.energy.2018.01.018>

Mr Sharad A Bhad, AMIE

Assistant Professor, Department of Electronics & Telecommunication Engineering, Sinhgad Institute of Technology, Pune

Title of Paper : “Energy Management in Multilevel Clustering to Reduce Energy Consumption in WSN”, *Journal of Wireless Communication, Networks and Mobile Engineering Technology*, Vol.2 Issue 3, 2018.



Mr G Narasimha Rao, AMIE

Department of Geo-Engineering & Centre for Remote Sensing, Andhra University, Visakhapatnam

Title of Paper : “Fire Detection in Kambalakonda Reserved Forest, Visakhapatnam, Andhra Pradesh, India: An Internet of Things Approach”, *Materials Today: Proceedings*, Vol.5.1, 2018, pp.1162-1168, Elsevier.



Ms Lekshmi Priya, R, AMIE

Assistant Professor, Department of Civil Engineering, Sree Narayana Institute of Technology, Kerala



Title of Paper : “Optimal Analysis of Composite Bridge without Cross Girders”, *International Journal of Recent Engineering Research and Development*, Vol.02, Issue 5, ISSN: 2455-8761, pp.8-11.

Co-author: Jayakrishnan, T J

Ms. Shraddha Arya, AMIE

Assistant Professor, Department of Mechanical engineering, Maharishi Arvind Institute of Engineering and Technology, Mansarovar Jaipur

Title of Paper : “To Develop the Model for Improving the Surface Texture of Deep Grooveball Bearing to Optimize Cutting Parameter, by using the Methodology of Design of Experiment”, *Journal of Emerging Technologies and Innovative Research*, Vol 5, Issue 2, February-2018, pp 126-136.



Title of Paper : “Distributed Numerical Control System: An Advancement in CNC/DNC System”, *International Journal of Science and Research (IJSR)*, Vol 7, Issue 2, February 2018, DOI: 10.21275/ART20182581572.

Publications by Members

Ms Damyanti G Badagha, AMIE

Applied Mechanics Department, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat

Title of Paper : “Mix Proportioning and Strength Prediction of High Performance Concrete Including Waste using Artificial Neural Network”, *International Journal of Civil and Environmental Engineering*, Vol.12, No:2, 2018, pp. 124-127.



DOI: scholar.waset.org/1307-6892/10008618

Co-author(s): C D Modhera and SA Vasanwala

Title of Paper : “Waste Material Utilization as a Cementitious Material to Understand Tensile Behaviour of Concrete under Alkaline and Acidic Exposure”, *International Conference on Advances in Concrete, Structural & Geotechnical Engineering, First edition*, February 16 -17, 2018 2018 at PARUL University, Vadodara, pp.135-139, ISBN: 978-93-87471-69-6, Bloomsbury Publishing India Pvt Ltd.

Co-author(s): C D Modhera and S N Desai

Title of Paper : “Durability of Concrete Incorporating Blast Furnace Slag to Reduce Cement Consumption Under MgSO₄ Exposure”, *Smart Construction-Conference Proceeding of Parul University International Conference on Engineering and Technology*, pp 33-38, Mc Graw Hill Publication. PARUL University Vadodara and Wroclaw University of Science and Technology, Wroclaw, Poland.

Co-author(s): C D Modhera, D. B. Raijiwala, S. R. Suryvansi

Prof Hemantha Kumar Kalluri, AMIE

Department of Computer Science and Engineering, VFSTR University



Title of Paper : “Palmpoint Identification and Verification with Minimal Number of Features”, *International Journal of Biometrics*, 2018, Vol.10, No.1, pp.16-28.

DOI: 10.1504/IJBM.2018.10011198

Mr Yogendra Arya, AMIE

Assistant Professor, Department of Electrical and Electronics Engineering, Maharaja Surajmal Institute of Technology, New Delhi

Title of Paper : “Design and Analysis of BFOA-optimized Fuzzy PI/PID Controller for AGC of Multi-area Traditional/Restructured Electrical Power Systems,” *Soft Computing*, Vol.21, No.21, pp.6435–6452, 2017, Springer.



DOI: 10.1007/s00500-016-2202-2.472

Co-author : Narendra Kumar

Title of Paper: “AGC of Restructured Multi-area Multi-Source Hydrothermal Power Systems Incorporating Energy Storage units via Optimal Fractional-order fuzzy PID controller,” *Neural Computing and Applications*, Springer, 2017.

DOI: 10.1007/s00521-017-3114-5

Mr Arun Reddy Thumma, AMIE

Former Engineer, Indian Hume Pipe Co. Ltd.



Title of Paper : “Experimental Study on Gypsum as Binding Material and its Properties”, *International Journal of Engineering and Science*, Volume 6; Issue 6; Version 1; June 2017.

DOI: 10.9790/1813-0606010115

Ms. Leena.N, MIE

Assistant Professor, Department of Electrical and Electronics Engineering, NSS College of Engineering, Palakkad

Title of Paper : “Vision Based Nutrient Deficiency Classification In Maize Plants Using Multi Class Support Vector Machines”, *International Conference on Electrical, Electronics, Materials and Applied Science (ICEEMAS)* organised by Swami Vivekananda Institute of Technology (SVIT), Secunderabad, Telangana during December 22-23, 2017.



Publications by Members

Mr. Srinivas Vasam, AMIE

Department of Civil Engineering, JNTUH, Kukatpally
Hyderabad



Title of Paper : “Utilizing Recycled Aggregate in Self Compacting Concrete – A Sustainable Approach”, *Proceedings of '3rd National Convention of Architectural Engineers and National Seminar on "Architectural Engineering Aspect For Sustainable Building Envelopes"*

ArchEn-BuildEn-2017, November 10-11, 2017 organized by The Institution of Engineers (India) Telangana State Centre at Visvesvaraya Bhavan, Khairatabad, Hyderabad Telangana on November 10-11, 2017.

Title of Paper: “Effect of Recycled Aggregate on Fresh and Hardened State Properties of Self-Compacting Concrete”, *Proceedings of 'Two day National Conference on Recent Innovations in Civil Engineering (RICE 2017) organized by Gokaraju Rangaraju Institute of Engineering and Technology(GRIET) – Hyderabad on December 15-16, 2017, ISBN 978-93-5279-269-6 , pp: 245-252.*

Title of Paper: “Effect of Different Curing Methods on the Strength of Recycled Aggregate Self Compacting Concrete (RASCC)”, *Proceedings of '2nd International Conference on Innovations in Structural Engineering (IC-ISE 2017), December 29-31, 2017 organized by Civil Engineering Dept., University College of Engineering, Osmania University, Hyderabad. on December 14-16, 2017, pp:1145-1154.*

Dr Itagi Ravi Kumar, MIE

Associate Professor, Swami Vivekananda Yoga
Anusandhana Samsthana, Bangalore

Title of Paper : “Effect of Sriyantra and Lunar days on the Germination of Fenugreek”, *Life Sciences Leaflets, 2018, Vol.97, pp.16-23.*

Co-author: Ravi Kumar Mandal



Dr. Anand Prakash Tiwary, MIE

Sikkim Manipal Institute of Technology, Sikkim

Title of Paper : “Investigation on the Effect of Dielectrics During Micro-Electro-Discharge Machining of Ti-6Al-4V”, *International Journal of Advanced Manufacturing Technology, January 2018, Volume 95, Issue 1-4, pp 861-874.*



Co-authors : B. B. Pradhan, B. Bhattacharyya

Title of Paper : “Parametric Optimization of Micro-EDM Process during Micro-hole Machining on Ti-6Al-4V using WASPAS Method”, *Proceedings of International Conference on Mechanical Materials and Renewable Energy (ICMMRE - 2017), December, 8-10, 2017, SMIT, Sikkim.*

Co-authors : P. P. Das, S. Chakraborty, B. B. Pradhan, B. Bhattacharyya

Dr. Bhagwan Kashiram Sakhale, MIE

Assistant Professor, University Department of Chemical Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra

Title of Paper : “Effect of Pretreatments on Drying Characteristics of Thompson Seedless Grapes”, *Asian J. Dairy & Food Research, Vol 36, No. 4, pp 332-336, 2017.*



Title of Paper : “Effect of 1-Methyl Cyclopropene on Post Harvest Quality and Shelf Life of Tomato Fruits Treated with Exogenous Ethylene”, *Int. J. Agric. Sci. Research, Vol 7, No. 5, pp 565-574, 2017.*

Title of Paper : “Effect of 1-Methyl Cyclopropene Concentration Storage Time and Temperature, on Post harvest Quality and Shelf Life of Tomato Fruit”, *Int. J. Agric. Sci. Research. Vol 7, No. 6, pp 265-272, 2017.*

Publications by Members

Mr. Sita Ram Bhardwaj, AMIE

Department of Electrical Engineering, NIT Hamirpur, Himachal Pradesh

Title of Paper : "Examination Of Induction Motor Drive using GTO Chopper Based Slip Power Recovery Scheme with Different Inverter Configurations", *IEEE International Conference on Power, Control, Signals & Instrumentation Engineering (ICPCSI-2017) organized by Saveetha Engineering College Thandalam, Chennai, India, 21st & 22nd September, 2017, pp-1-6.*



Co-authors: O. P. Rahi, Veena Sharma, K. S. R. Murthy, and Preeti Sonkar

Title of Paper : "Investigations in to Induction Motor Drive using Slip Power Recovery Scheme with GTO Inverter and Chopper". *14th IEEE India Council International Conference (INDICON) organized by Indian Institute of Technology Roorkee, India, 15th -17th December, 2017, pp-1-6.*

Co-authors: O. P. Rahi, Veena Sharma, and K. S. R. Murthy

Title of Paper : "Speed Control of Induction Motor Drive: A Strategy using MOSFET Chopper and Inverter based Slip Power Recovery Scheme for Better Performance", *International Conference on Emerging Trends in Engineering Innovation & Technology Management (EITM 2017), organized by NIT Hamirpur, HP, India, 16th-18th December, 2017.*

Co-authors: O. P. Rahi, Veena Sharma, Abhishek Thakur, and Navneet Kumar

Prof. N C Hiremath, MIE

Department of Mechanical Engineering, SIT's College of Engineering, Yadrav-Ichalkaranji, Maharashtra



Title of Paper : "Sustainable Supply Chain Management: An overview and Research Directions", *Proceedings of Global SCM Conference, K J Somaiya Institute of Management Studies and Research, Vidyavihar, Mumbai, 16th December 2017, No. 8 pp. 84- 87.*

Mr. Shaik Riyazuddin, MIE

Assistant Professor, Department of ECE, VVIT, Guntur



Title of Paper : "The contemporary Review of recent Literature: Load Balancing and corresponding Handover schemes in LTE and LTE-Advance based cellular Networks", *Journal of Advanced Research in Dynamical and Control systems (JARDCS) (Scopus Indexed, ISSN:1943-023X, Page no:3110-3131, Special Issue-18, 2017).*

Co-Authors : Dhulipalla Venkata Rao and Madhu Ramarakula

Dr. B Venkateswara Rao, MIE

Associate Professor, Department of EEE, V R Siddhartha Engineering College (Autonomous), Kamuru, Vijayawada, Andhra Pradesh



Title of Paper : "Cuckoo Search Algorithm based Optimal Tuning of Thyristor Controlled Series Capacitor to Enhance the Line based Voltage Stability", *Advanced Science and Technology Letters Vol.147 (SMART DSC- December 2017), pp.104-109.*

Co-authors: G. V. Nagesh Kumar, B. Sravana Kumar and K. Appala Naidu

Title of Paper : "Optimal parameter setting of Unified Power Flow Controller using Firefly Algorithm", *Advanced Science and Technology Letters Vol.147 (SMARTDSC- December 2017), pp.110-114.*

Co-authors: G. V. Nagesh Kumar, B. Sravana Kumar, B. Shaw and Appala Naidu. K.

Title of Paper : "Linear programming technique based optimal relay coordination in a radial distribution system", *International Journal of Engineering & Technology, Vol. 7, Issue 1, February 2018, pp.51-55.*

Co-authors: G. V. Nagesh Kumar, B. Sravana Kumar, P. V. S. Sobhan and K. Appala Naidu.

Publications by Members

Prof. Dharmiah Devarapalli, MIE

Shri Vishnu Engineering College for Women (Autonomous), Vishnupur, Bhimavaram, West Godavari, Andhra Pradesh

Title of Paper : "Identification of AIDS Disease Severity based on Computational Intelligence Techniques using Clonal Selection Algorithm", *International Journal of Convergence Computing*, 2016 Vol.2, No.3/4, pp.193 - 207, January 29, 2018.



DOI: 10.1504/IJCONVC.2016.10010725

Co-authors : Panigrahi Srikanth; Manda Ram Narasinga Rao; J. Venkata Rao

Dr. G. Shravan Kumar, FIE

Associate Professor, Department of Civil Engineering Vasavi College of Engineering (Autonomous), Hyderabad

Title of Paper : "Integrated Remote Sensing and Factor Analytical GIS Model for Evaluating Ground Water Pollution", *3rd International Conference on Environmental Management (ICEM-2017) organized by Centre for Environment, Institute of Science & Technology, on November 27th – 30th 2017, pp 728 to 735.*



Co-authors : P. Madhusudhan Reddy and M. Anji Reddy

Prof. Sivakandhan C, FIE

Mechanical Engineering Department, Sri Indu Institute of Engineering and Technology, Sheriguda, Hyderabad, Telangana



Title of Paper : An Experimental Study of Updraft Biomass Gasifier using Biofuels", *International journal of Ecology, Environment and conservation*, Vol. 24, 2018; pp S115-S121.

Prof. Lakhwinder Singh, FIE

Dean (Academics), Electrical Engineering Department, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab

Title of Paper : "Harmonics Mitigation in a Steel Industry Using 11-Level Cascaded Multilevel Inverter-Based DSTATCOM", *Canadian Journal of Electrical and Computer Engineering*, Vol. 40, No. 2, 2017, pp. 110-115.



Co-authors : Tejinder Singh and Balbir Gill,

Title of Paper : "Comparative Analysis of Lambda Iteration Method and Particle Swarm Optimization for Economic Emission Dispatch Problem", *International Journal of Engineering Research and Technology (IJERT)*, Vol. 5, No. 5, 2017, pp. 153-157 (ISSN: 2278-0181).

Co-author : Vipandeep Kour

Mr. H. N. Bhang, MIE

Assistant Professor, Dept of SWCE, CAET, Dapoli (MS)

Title of Paper : "A RS and GIS Approaches for the Estimation of Runoff and Soil Erosion in SA-13 Watershed", *Hydrologic Modeling, Water Science and Technology Library 81, Springer Nature Singapore Pte Ltd. 2018, https://doi.org/10.1007/978-981-10-5801-1_22, ISBN 978-981-10-5801-1 (eBook).*



Co-authors : V. V. Deshmukh

Mr. Vikram S. Kulkarni, AMIE

Sr. Engineer at Kulkarni Builders, Nashik.

Title of Paper : "Ergonomic Analysis of Building Construction Workers Using RULA & REBA Techniques", *NICMAR - Journal of Construction Management*, Vol. 32, Issue - 3, pp. 09-15. September 2017. Issue: July-September 2017.



Publications by Members

Ms. Sandhya Kashinath Swami, MIE

Dr. B.A.M.U. Aurangabad, Government Engineering College, Aurangabad.

Title of Paper : “A New Higher Order Shear Deformation Theory for bending Analysis of Isotropic and Orthotropic Plates with Linear thermal Loading” *International Journal of Engineering Research in Mechanical and Civil Engineering, Vol 3, Issue 1, Jan 2018.*



Title of Paper : “A New Higher Order Shear Deformation Theory for bending Analysis of Isotropic and Orthotropic Plates with Linear thermal Loading”, *International Conference on Innovative Realms in Civil Engineering, 24-25 Jan. 2018, Nagpur, India.*

Title of Paper : “Linear Thermal Analysis of Laminated Composite Plates by using Higher Order Shear Deformation Theory”, *International Conference on Recent Trends in Engineering & Sciences in February 20-21, 2018, Visakhapatnam.*

Mr. S.A Rizvi, MIE

Workshop Superintendent, University Polytechnic, JMI, New Delhi

Title of Paper : “Optimization of Gas Metal arc Welding Parameters of SS304 Austenitic Steel by Taguchi –Grey Relational Analysis”, *Journal of Computational and Applied Research in Mechanical Engineering, JCARME (a SCOPUS Indexed Journal), Vol. 7, No. 2, pp. 189-198.*

**Mr. Vishnu Rajaram Bankar, AMIE**

Bajaj Auto Ltd., Chakan, Pune, Maharashtra

Title of Paper : “Assembly Defect Elimination by FTA Technique”, *The Institution of Engineers (India)-PLC, Technical Journal Vol. No.- 41, pp. 83-92.*

**Mr. Neeresh Kumar, AMIE**

Engineer Development and Engineering-Antenna Bharat Electronics Ltd, Ghaziabad

Title of Paper : “Dielectric Hat-Feed Based Sub-1m Reflector Antenna for Satcom on the Move (SOTM)”, *ATMS INDIA 11TH International conference Pune 6-7 Feb 2018.* Paper Link : https://www.researchgate.net/publication/323006822_Dielectric_Hat_Feed_Based_Sub-1m_Reflector_Antenna_for_Satcom_on_the_Move_SOTM.

**Dr.C.Bharatiraja, MIE**

Associate Professor, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Chennai.



Title of Paper : “Design and Implementation of Fourth Arm for Elimination of Bearing Current in NPC-MLI-Fed Induction Motor Drive”, *IEEE Transactions on Industry Applications, Vol. 54, No. 1, pp. 745-754, January/February 2018.*

Mr. A. Muthu Manokar, AMIE

Department of Mechanical Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

Title of Paper : “Economic and exergy investigation of triangular pyramid solar still integrated to inclined solar still with baffles”, *International Journal of Ambient Energy, DOI10.1080/01430750.2017. 1422143 (SCOPUS INDEXED).*



Co-author(s) : Hitesh Panchal, Yazan Taamneh, Ravishankar Sathyamurthy, A. E. Kabeel, S. A. El-Agouz, P. Naveen Kumar, T. Arunkumar, D. Mageshbabu & R. Bharathwaaj

Publications by Members

Dr P. Sivakumar, AMIE

Senior Instructor, Department of Civil Engineering, North Eastern Regional Institute of Science and Technology (NERIST) Nirjuli (Itanagar), Arunachal Pradesh.

Title of Paper : "Discussion of 'New Pressure- Driven Approach for Modeling Water Distribution Networks' by Mahmoud, H. A., Savic, D., and Kapelan, Z." *Journal of Water Resources Planning and Management (ASCE)*, Vol 144, No. 6, 07018005-1-2, DOI: 10.1061/(ASCE)WR.1943-5452.0000781, (2018).



Co-author(s) : Suribabu, C. R., Neelakantan, T. R

Mr. Sivasubramanyam Medasan, MIE

Department of Electronics and Communication Engineering, Sri Venkateswara University, College of Engineering, Sri Venkateswara University, Tirupati, Andhra Pradesh



Title of Paper : "Speckle Filtering and its Influence on the Decomposition and Classification of Hybrid Polarimetric Data of RISAT-1", *Remote Sensing Applications: Society and Environment (ELSEVIER)*, Vol 10, pp. 1-6, 2018.

Co-author : Dr. G. Umamaheswara Reddy

Mr. M. Senthil Raja AMIE

Pondicherry Engineering College



Title of Paper : "Modified Rotor Material for Minimization of Torque Ripple for Interior Permanent Magnet BLDC Motor", *Materials Today Proceedings, Volume 5, Issue 2, Part 1, 2018, pp 3639-3647, Elsevier.*

Co-author : Dr. B. Geethalakshmi

<https://www.sciencedirect.com/science/article/pii/S2214785317328870> <https://doi.org/10.1016/j.matpr.2017.11.614>

All Corporate Members of IEI are requested to send their Achievements and Publications to :

newsletter@ieiindia.org

in the following format

For Journal Publication: Title of the Paper/s, Full name of the Journal, Vol no., Issue no., year of publication, pp and DOI (if available), Co-author/s (if any)

For Conference Publication: Title of the Paper/s, Full name of the Conference, year of publication, pp and DOI (if available), Co-author/s (if any)

Programmes by Institutional Members

Saveetha Engineering College Chennai

Conducted

Faculty Development Programme on “Engineering Mechanics”

December 29-30, 2017



Karunya Institute of Technology and Sciences Coimbatore

Conducted

MINDKRAFT-2018, the
Annual National Level
Techno-Management Fiesta
on March 15, 2018



Organised

International Conference on
Devices, Circuits and
Systems (ICDCS'18)
during March 16-17, 2018



Welcome to IEI New Institutional Members



**Aditya College of
Engineering & Tech**
Andhra Pradesh



**Central Institute
of Technology**
Kokrajhar BTAD, Assam



**Sree Buddha College
of Engineering**
Kerala



**Institution of
Military Engineers**
Pune, Maharashtra



**SVERI's College
of Engineering**
Maharashtra

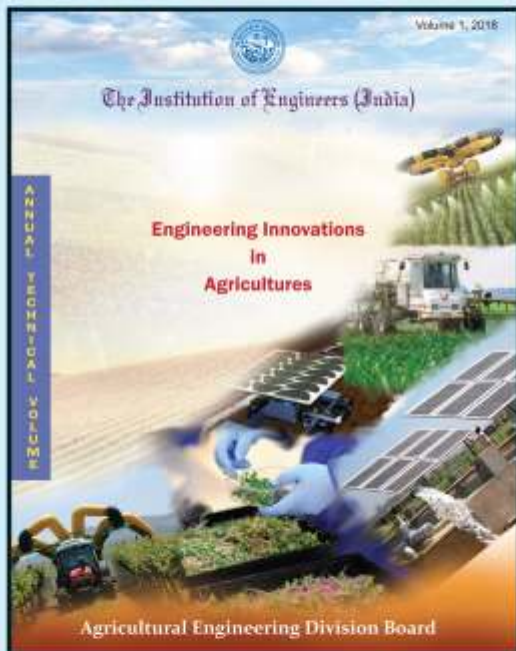


**SRM Institute of
Science and Technology**
Chennai, Tamilnadu

Annual Technical Volumes of IEI are now available online

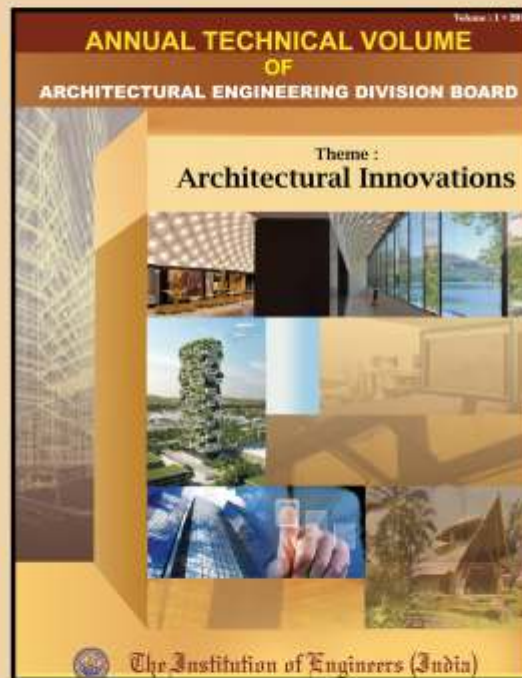
Agricultural Engineering Division Board

Theme: "Engineering Innovations in Agriculture"



ISBN: 978-81-936149-4-5

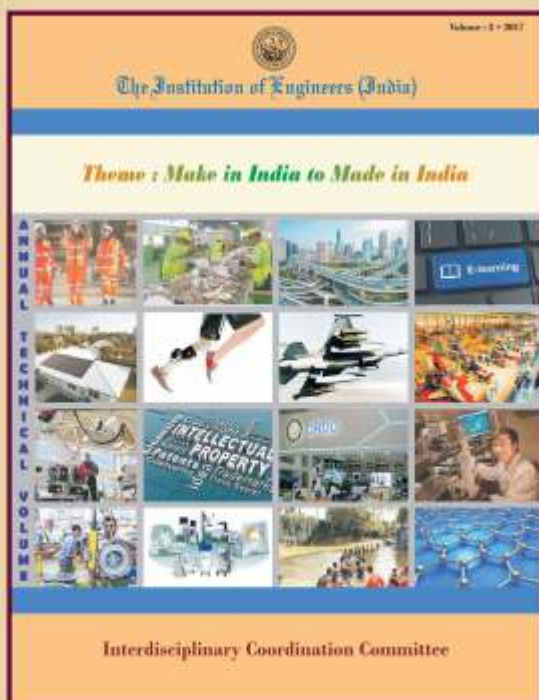
Architectural Engineering Division Board



ISBN: 978-81-936149-2-1

Interdisciplinary Coordination Committee

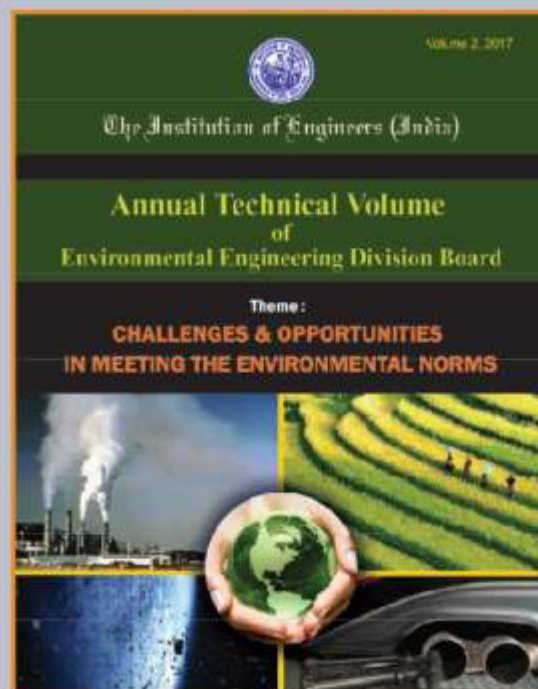
Theme: "Make in India to Made in India"



ISBN: 978-81-936149-3-8

Environmental Engineering Division Board

Theme: "Challenges & Opportunities in Meeting the Environmental Norms"



ISBN: 978-81-936149-1-4

IEI – Springer Journal Series

Series A: Civil, Architecture, Environment, Agriculture

URL: <http://link.springer.com/journal/40030>

Editor-in-Chief:

Prof K Ramamurthy, Dept. of Civil Engg., IIT Madras

Associate Editors:

Prof Deepankar Choudhury, Dept. of Civil Engg., IIT Bombay, Mumbai

Prof R G Robinson, Dept. of Civil Engg., IIT Madras, Chennai

Prof Siva Sivakugan, College of Science & Engineering, James Cook University, Australia

Prof Rajesh Srivastava, Dept. of Civil Engg., IIT Kanpur

Prof (Ms.) Suparna Mukherji, Centre for Environmental Science and Engineering, IIT Bombay

Prof T I Eldho, Dept. of Civil Engg., IIT Bombay, Mumbai

Prof S C Dutta, Dept. of Civil Engg., Indian School of Mines Dhanbad

Dr (Ms.) Lellitha Devi V, Dept. of Civil Engg., IIT Madras, Chennai

Prof S Dutta Gupta, Department of Agricultural and Food Engineering, IIT Kharagpur

Dr S N Jha, Indian Council of Agricultural Research, New Delhi

Dr E Rajasekar, Department of Architecture and Planning, IIT Roorke



ISSN Print: 2250-2149
ISSN Online: 2250-2157

Series B: Electrical, Computer and Electronics & Telecommunication

URL: <http://link.springer.com/journal/40031>

Editor-in-Chief:

Prof. P. P. Das, Department of Computer Science & Engineering, IIT Kharagpur

Associate Editors:

Prof. Vikram M Gadre, Dept. of Electrical Engg., IIT Bombay

Prof. Debaprasad Kastha, Dept. of Electrical Engg., IIT Kharagpur

Dr. Silva Kumar K, Dept. of Electrical Engg., IIT Hyderabad



ISSN Print: 2250-2106
ISSN Online: 2250-2114

Series C: Mechanical, Production, Marine, Aerospace

URL: <http://link.springer.com/journal/40032>

Editor-in-Chief:

Prof. Gautam Biswas, Director, IIT Guwahati

Associate Editors:

Prof. Suman Chakraborty, Dept. of Mech. Engg., IIT Kharagpur

Dr. N. C. Murmu, CMERI, Durgapur

Prof. Amitava De, Dept. of Mech. Engg., IIT Bombay

Prof. U. S. Dixit, Dept. of Mech. Engg., IIT Guwahati

Dr. B. K. Saxena, Principal, Tolani Maritime Inst., Pune

Prof. A.K. Agarwal, Dept. of Mech. Engg., IIT Kanpur



ISSN Print: 2250-0545
ISSN Online: 2250-0553

Series D: Metallurgical & Materials and Mining

URL: <http://link.springer.com/journal/40033>

Editor-in-Chief:

Prof. N. R. Bandyopadhyay, School of Materials Science & Engineering
Indian Institute of Engineering Science and Technology, Shibpur

Associate Editors:

Prof. Shubhabrata Dutta, SRM University, Chennai

Prof S. P. Banerjee, Indian School of Mines, Dhanbad



ISSN Print: 2250-2122
ISSN Online: 2250-2130

Series E: Chemical, Textile

URL: <http://link.springer.com/journal/40034>

Editor-in-Chief:

Prof. A. R. Balakrishnan

Dept. of Chemical Engg., IIT Madras

Associate Editor:

Dr. Abhijit Majumdar, Dept. of Textile Technology, IIT Delhi



ISSN Print: 2250-2483
ISSN Online: 2250-2491

Book Review

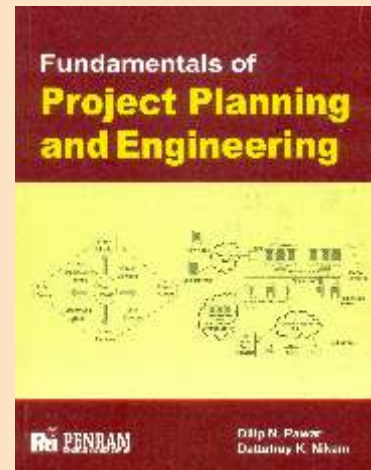
Mr Dattatray K Nikam, AMIE

Principal Design Engineer – Instrumentation, Practicing Professional, Mumbai
PENRAM International Publishing (I) Pvt. Ltd.

Fundamentals of Project Planning and Engineering

Fundamentals of Project Planning and Engineering offers comprehensive and practical information to engineering students. It will serve as a database for all those who need to refer to it for a proper understanding of project management concepts. Therefore, this book incorporates the principles of project engineering namely - Need, Vision, and Delivery. This book also covers industrial application and practical problems of detail engineering design. It gives complete and concise information on every topic of the subject, which has so far never been available in consolidated form. The simple language, collective information and case study examples are a unique feature of this book. This book will be of great help to students where a course on Project, Planning and Engineering is included in the syllabus. All chapters include specific explanations with relevant block and schematic diagrams. The book has made an attempt to cover the industrial standards and practices followed for project execution by a project team, and project management and engineering documents produced by the instrumentation discipline. The chapters have been arranged in chronological order so that one goes from the definition of a project to project implementation and the project planning and engineering life cycle is divided into ten chapters for proper understanding and implementation. This book will be useful to all engineering students, graduate engineers, and practicing engineers. It will help in gaining a proper understanding of project concepts and engineering activities, which will help to expedite the installation and construction phases of any project. It will also be useful to installation and construction teams for the installation, mechanical completion, pre-commissioning and commissioning activities.

Co-author: Dilip N Pawar

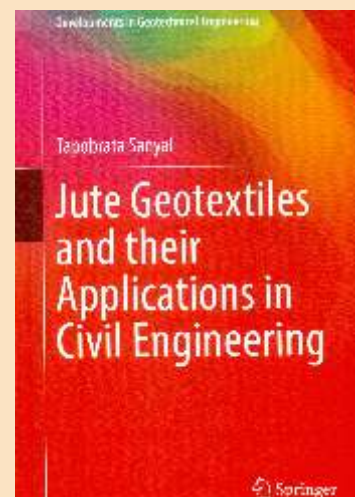


Mr Tapobrata Sanyal, FIE

Former Chief Consultant, National Jute Board, Kolkata
Springer

Jute Geotextiles and their Applications in Civil Engineering

Jute has been in use traditionally as a flexible packaging material. Its use for geotechnical purposes was not conceived before the mid-1980s. Over the years, there have been extensive studies and trials as to how best the material could be put to use for various geotechnical applications. Till date more than 260 applications of Jute Geotextiles (JGT) in three major areas, viz., low-volume roads, eroded river banks, and slopes, have been recorded in India with hardly any case of failure. A lot of applications of JGT, mostly for protection against soil erosion, have been done overseas as well. Unlike countries in the West where makers of man-made polymeric geotextiles invested large amounts for research and development, investment on Jute Geotextiles for research and development has so far been far less than what JGT deserves.



Book Review

Prof K R Valluvan, FIE

*Controller of Examinations, Velalar College of Engineering & Technology, Erode, Tamilnadu
Charulatha Publications*

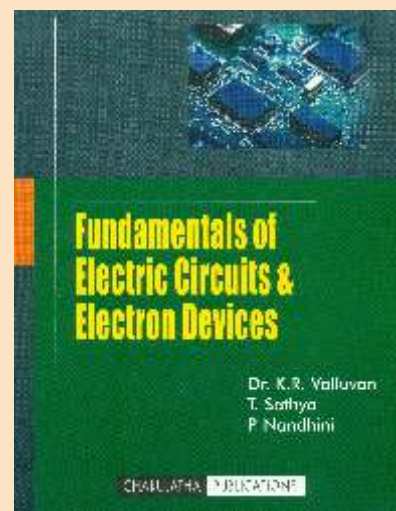
Fundamentals of Electric Circuits & Electron Devices

The fields of Electrical and Electronics Engineering are so vast – there are thousands of books and millions of e- resources. For an inquisitive scholar, many of these are readily available. But for a beginner, just migrated from the teaching pedagogy of school education, they seem to be too many. Where to start and how to proceed is a real challenge. This book is an attempt to support a student to learn in a systematic way. This book is different in the following ways:-

- An attempt is being made to deliver the contents in modules over a period of one semester. 2) Theory is explained with what is being followed in industry
- Typical doubts which arise in mind are asked by a Learner and by a Teacher
- The things that are assumed to be already known are again explained from a different view.

The foundations of DC and AC circuits, Diodes and Transistors are explained over a spread of five chapters

Co-authors : T Sathya, P. Nandhini



Notification for IEI Industry Excellence Award 2018

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 2018. The last date of receipt of application for the Award 2018 is August 31, 2018. Interested applicants are requested to send their applications (5 hard copies & 1 soft copy in CD) to the below mentioned address.

The Director [Technical]

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

Call for Papers for Annual Technical Volumes

Engineering Division Board/Committee	Theme	Last Date for submission of the Paper	Paper to be submitted at Email ID
Aerospace	Future Trends and Developments in Aerospace	30/04/2018	asdb@ieindia.org
Agricultural	Advances in Agricultural Engineering	31/07/2018	agdb@ieindia.org
Civil	Development of State & National Highways in India	31/07/2018	cvdb@ieindia.org
Chemical	Safety & Security in Chemical Industry	31/05/2018	chdb@ieindia.org
Electrical	Grid Management in a Multiple Energy Resources Scenario	30/04/2018	eldb@ieindia.org
Electronics & Telecommunication	Recent Trends in Mechatronics for Sustainable Development in Engineering	15/06/2018	etdb@ieindia.org
Environmental	Policy, Technology and Awareness for River Rejuvenation	30/06/2018	endb@ieindia.org
Marine	Inland Water Transport–Challenges and Opportunities	30/04/2018	mrdb@ieindia.org
Mining	Slope Stability in Mines	31/05/2018	mndb@ieindia.org
Metallurgical & Materials	New Generation Composite Materials	31/05/2018	mmdb@ieindia.org
Textile	Technical Textile and its Applications	31/05/2018	txdb@ieindia.org
Interdisciplinary	Advances in Bio-engineering and Biotechnology	31/07/2018	icc@ieindia.org

Disclaimer : The information contained in IEI-epitome has been prepared solely for the purpose of providing information about the members of IEI to interested parties, and is not in any way binding on IEI.

IEI-epitome has been compiled in good faith by IEI, but no representation is made or warranty given (either express or implied) as to the completeness or accuracy of the information it contains. You are therefore requested to verify this information with the concerned person / organization before you act upon it.

IEI *epitome*

President : Mr Sisir Kumar Banerjee

Editor : Maj Gen (Dr.) S Bhattacharya, VSM (Retd)

Associate Editor: Dr Surojit Ghosh

Special Contributors: Mr N Sengupta, Mr S Chaudhury, Mr K Sen, Mr T Chakraborty, Ms A Dutta, Ms H Roy, Mr P Chakraborty, Mr S Bagchi

Telephones: 91-33-2223 8311/14/15/16

E-mail: newsletter@ieindia.org

Web: <http://www.ieindia.org>