2022 IEEE 10th POWER INDIA INTERNATIONAL CONFERENCE
NOVEMBER 25 - 27, 2022

Recent Advancements in the area of Electrical Engineering,
Decarbonisation of Grid and EV Infrastructure.

Organized by National Institute of Technology, Delhi, India

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National Institute of Technology Delhi
Plot No. FA7, Zone P1, GT Karnal Road,
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10th Power India International Conference (PIICON 2022) being sponsored by IEEE Delhi Section, IEEE PES-IAS Delhi Chapter & IEEE PELS-IES Delhi Chapter was organized and hosted by National Institute of Technology Delhi, India during 25th November – 27th November 2022. The theme of the Conference was “Recent Advancements in the area of Electrical Engineering, Decarbonisation of Grid and EV Infrastructure” very appropriate and relevant having the following tracks:

Track1: Grid Decarburization and Integration of Renewable Energy Systems
Track2: Power and Energy Engineering
Track3: Data Analytics & AI Application for Power Systems
Track4: Transportation and Energy Storage
Track5: Grids, Smart Grids, Microgrids and AC & DC
Track6: Power Electronics Components and their Applications
Track7: Energy Managements, Electricity Market and Policy/ Regulatory Aspects

521 manuscripts were submitted to IICPE2023, of which 212 papers were accepted in the final program. Total 194 papers were presented during the conference in person mode.

The participants of PIICON 2022 got benefited from the Keynote speech and tutorials presented by the following high profile speakers:

1. Prof. Bhim Singh, Fellow IEEE, IIT Delhi, New Delhi
2. Prof. N. P. Padhi, Fellow IEEE, Director MNIT Jaipur
3. Prof. S. N. Singh, Fellow IEEE, Director ABV-IIITM Gwalior
4. Prof H.M. Suryawanshi, Fellow IEEE, Director, NIT Hamirpur
5. Prof Sudip K. Mazumdar, Fellow IEEE, University of Illinois Chicago
6. Prof. SuKumar Misra, IIT, Delhi
7. Prof. B. K. Panigrahi, IIT Delhi
8. Prof Virendra Singh IIT Bombay
9. Mr Yogesh Agarwal Vice President ABB Digital (Energy Industries) Asia Pacific, Malesia
10. Dr. Ajeet Kumar Technical Principal- RAMS at Mott Macdonald Bangalore

Department of Science & Technology New Delhi, OPAL-RT Technologies, Typhoon HIL, M/s Design Tech, M/s Technosys Systems, ICICI Bank, FLUKE, AGMATEL and M/s. HIOKI provided the financial support. The conference ended with the valedictory session and vote of thanks to all the contributors.
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Mr. Anshul Varshney, CSIR – National Physical Laboratory of India
Dr. Arun K Verma, MNIT Jaipur
SPEAKERS

Prof. Brijmohan Singh
IIT Delhi
IEEE Fellow
EV Charging and Smart Infrastructure

Prof. S. N. Singh
Director, ADV IIM Division
IEEE Fellow
Digital Energy Transformation

Prof. N. P. Padhy
(Director MNIT, Jaipur)
Innovative Advanced Technology

Prof. Sudip K. Mazumder
University of Illinois Chicago
IEEE Fellow
Optically Controlled Power Semiconductor Devices for Smart Grid

Prof. K. Parimal
IIT Delhi

Prof. Sukanta Mitra
IIT Delhi
Achieving Near-Zero-K Through PMU Charging Station

Prof. Vishwanath Singh
IIT Bombay
Security Issues in Cyber Physical Systems

Dr. Ajit Kumar
(Technical Principal-RAMS/AF
Mott MacDonald, Bangalore)
Functional Safety of Electrical and Electronic Systems to Railway Applications

Mr. Yogesh Agarwal
(Vice President ABB Digital (Energy Industry), Asia Pacific)
Digital Strategies in accelerating Net Zero Energy Transition
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<th>Date</th>
<th>Session</th>
<th>List of Chairs</th>
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<td><strong>25-11-2022</strong></td>
<td>3:00 pm-4:30 pm</td>
<td>Prof Dinesh Jain; Dr. AVANISH TRIPATHI; Dr. Manohar Singh; Dr. Satish Sharma; Prof Bhim Singh; Dr. Anmol R Saxena</td>
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<td>4:45 pm – 6:15 pm</td>
<td>Dr Shivkumar V; Dr A.R. Gupta; Dr. Akanksha Shukla; Dr. Alka Singh; Prof. Subrata Mukhopadhyay; Dr. Risha Mal</td>
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<td><strong>26-11-2022</strong></td>
<td>10:00 am – 11:30 am</td>
<td>Dr. Sanjay Tolani; Dr. Shailendra Kumar; Dr. Rajesh Pindoria; Dr. Anshul Varshney; Dr. Sanjeev Singh</td>
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<td>3:30 pm – 5:00 pm</td>
<td>Dr. Ajeet Kumar; Dr. Sunanda Sinha; Dr. Pankaj Mukhiya; Dr. Monika; Dr. Priyesh Chauhan</td>
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<td><strong>27-11-2022</strong></td>
<td>11:30 am – 1:00 pm</td>
<td>Dr. Nidhi Singh; Dr. Amit Kumar Singh; Dr. Sunanda Sinha; Dr. Souvik Ganguly; Dr. K.T. Raju</td>
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<td></td>
<td>2:45 pm – 4:15 pm</td>
<td>Dr. Vikas Singh Bhadoria; Dr. K.T. Raju; Dr. Manohar Singh; Dr. Dinesh Kumar Jain</td>
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presenters
Thankful to our contributors for their financial support for the conference.

**SILVER CONTRIBUTORS:**

- **OPAL-RT Technologies**
- **Typhoon HIL**

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