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IEEE 25-27 NOV PICON 2022
10TH POWER INDIA INTERNATIONAL CONFERENCE

2022 IEEE 10th Power India International Conference

25 - 27 November 2022

National Institute of Technology Delhi, India

PIICON 2022

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

The authors have to submit the full paper in the IEEE double-column format (**https://www.ieee.org/conferences/publishing/templates.html**), restricted to a length of six (6) pages. **Link for paper submission**(**https://edas.info/N29602**). Last date for paper submission: **10th September 2022.** Detailed instructions and guidelines regarding paper submission are available at the URL: **https://www.piicon2022.com. All papers presented in the conference will be submitted to the IEEE Xplore for possible inclusion and all the presented papers will be eligible for further review to be published in the IEEE Transaction on Industry Applications or IEEE IAS Magazine.**

Registration

	STANDARD	
	IEEE MEMBERS	NON IEEE MEMBERS
STUDENT AUTHORS (INR)	3500	4500
ACADEMIC INSTITUTION DELEGATES (INR)	7000	9000
INDUSTRY/ UTILITIES/ R&D PROFESSIONAL (INR)	10000	12000
INTERNATIONAL AUTHORS (USD)	250	300

Important Dates

- Call for Paper – June 1, 2022
- Full Paper Submission – ~~Aug 31~~ Sep 10, 2022
- Acceptance Notification – Sep 30, 2022
- Camera Ready Paper Submission Closes – Oct 15, 2022

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Tracks

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Grid Decarburization and Integration of Renewable Energy Systems

- Environmental issues and relulations.
- Renewable Energy Based Systems.
- Operational metrics for a Decarbonizes Grid.
- Low-Carbon Emission using Smart Grid Technologies
- Zero Carbon System.
- Integration of Solar PV into buildings and infrastructure.
- Integration of Distributed Resourses.
- Photovoltics Systems and Solar Energies Engineering.
- Wind Energy Generation.
- Small Hydro generation Systems.
- Energy Harvesting for Communication Systems.
- Future Challenges and Directions for Grid Decarburization.
- Issues in Grid Integration of Renewables.
- Reliability and resilience considering a changing relationship between the bulk power system and distribution systems.
- Low inertial power system operation, management and planning.

Power and Energy Engineering

- Power Systems Operation and Control.
- Renewable Energy Based Systems.
- Power System Reliability.
- Power Systems Stability and Control.
- Power System Protection.
- Power System Protection.
- Planning and Operation under Deregulated Conditions.
- Restructuring of Power System.
- Control Applications to Power Systems.
- Fault Monitoring and Predictive Maintenance.
- Blackouts: Analysis, Prevention & Control.
- Wide Area Monitoring and Control.

Data Analytics & AI Application for Power Systems

- Machine learning applications in power systems.
- Big data analytics in energy systems.
- Blockchain applications in smart grid.
- IoT Infrastructure for energy management in power system.
- Advanced Metering Infrastructure.
- Cyber & Physical Security of the Power Grid.
- Home Automation.
- Intelligent monitoring and outage management.
- Applications of Heuristics and Metaheuristics in Power Systems.
- Generation, Load & Price Forecasting.

Transportation and Energy Storage

- Plug-in vehicles and low-carbon transportation alternatives.
- Power Electronics and motor control for EV Applications.
- Charging methods, systems and standards.
- G2V and V2G applications.
- Railway Traction applications.
- Battery use and reuse.
- Large-Scale Energy Storage.
- Wireless Charging Systems.
- Battery Management Systems.

Grids, Smart Grids, Microgrids and AC & DC

- Role and Operation in Grids and Microgrids.
- Smart grids.
- Micro, Nano & Pico Grids.
- Power quality issues and power factor correction techniques.
- 6DC grids including fault coordination and protection.
- Hybrid DC circuit breakers (DCCBs).
- HVDC & FACTS.

Power Electronics Components and their Apps

- Power Electronics and Drives.
- Power electronics converters and systems.
- Modular Multilevel Converters.
- Standard and advanced PWM techniques.
- Condition Monitoring.
- Electrical Machines.
- Industrial Automation and Control.
- Automatic and AI based Control
- Nonlinear Control
- Mechatronics and Embedded Systems

Energy Managements, Electricity Market and Policy/ Regulatory Aspects

- Electricity Market and Power System Economics.
- Grid Flexibility, Resiliency & Security.
- Demand Side Management.
- Policies for Distributed Generation.
- Distribution Network Management.
- Electricity Trading and Risk Management.
- Energy Policy, Governance and Regulations.
- Flexing India's Energy System through Market Mechanisms
- Economic, social and environmental policy aspects

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