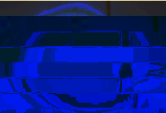


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Topics & Subtopics

Digitalization and Smart Technologies in Power Systems

- Digital substations and digital power system protection
- Digital twin technologies and its role in power system digital transformation
- Technologies enabling the digitalization of energy systems
- ICT, Data Analytics, and Artificial Intelligence applied to power systems

AI and Advanced Analytics in Energy Systems

- AI applications in energy conversion systems
- Intelligent monitoring and control of energy conversion processes through Machine Learning
- AI-Enhanced condition monitoring and predictive maintenance for industrial systems
- Machine Learning applications in predictive maintenance and reliability engineering
- Load and generation forecasting
- Optimization of energy conversion efficiency using AI

Electric Vehicles and the Future of Mobility in Energy

- Powering the future: integrating EVs, V2G, and V2X, and future management infrastructure
- Exploring the intersection of EVs, energy markets, and advanced AI
- Future management infrastructure for EVs and demand response

Energy Storage and Renewable Integration

- Energy storage systems and multi-energy systems and networks
- Renewable energy systems, distributed generation, and smart grids
- Diagnosis and condition monitoring of energy conversion systems

Market Evolution and Energy Transition

- The role of demand response and AI in the evolving energy ecosystem
- Transforming the future of electricity markets and AI-driven techniques
- The role of AI in transforming electricity markets
- Net Zero, energy transition, and sustainable e-transition

Power System Modelling, Analysis, and Applications

- Power electronics devices and applications
- New use cases and special applications
- Power system modeling and analysis
- Electrical building services

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