EI²

2022 IEEE 6th Conference on Energy Internet and Energy System Integration

Website: https://attend.ieee.org/ei2-2022/

OCTOBER 28-30, 2022 | CHENGDU, CHINA

ABOUT THE CONFERENCE

The 6th IEEE Conference on Energy Internet and Energy System Integration focuses on innovative technologies and practical applications regarding – "Energy Internet and New-type Power System" IEEE EI² integrates multiple energy systems, e.g., electricity, gas, heating, cooling and transportation and so on, to shape a green, low-carbon, efficient, low-cost and environmental-friendly energy ecosystem. To promote the interconnection, openness, sharing and coordination of various energy resources, IEEE EI² 2022 involves energy storage and ICT technologies, including cloud computation, big data analysis, internet of things (IoT), mobile internet, artificial intelligence (AI), block-chain and applications of 5G communication.

The 6th IEEE Conference on Energy Internet and Energy System Integration (IEEE EI² 2022) will be held in Chengdu, China from Oct. 28th to 30th, 2022. This conference is co-sponsored by IEEE Power & Energy Society, University of Electronic Science and Technology of China, Tsinghua University-Dept. of Electrical Engineering, Chengdu University of Technology, Chinese Society for Electrical Engineering, Tsinghua University-Energy Internet Research Institute and Tsinghua University Shenzhen International Graduate School.

The conference will set various awards, such as the Best Paper Award and the Energy Internet Best Practice Award. The conference papers will be included by IEEE Xplore and EI, and high-quality papers will be recommended to Journal of Modern Power Systems and Clean Energy (MPCE), Chinese Society for Electrical Engineering Journal of Power and Energy Systems (CSEE JPES) and Applied Energy etc.

CALL FOR PAPER

TOPICS ASSOCIATED WITH IEEE EI²

Renewable Energy Grid Interconnection

- Operation and control of High voltage DC grids
- Operation and planning of Active distribution system
- District energy internet/District comprehensive energy systems
- Source-grid-load-storage coordination dispatch

Smart Grid Security

- Modeling and analysis of resilient Energy internet
- Modeling, co-simulation and analysis of Cyber-Physical System (CPS) of Energy internet
- Simulation & control for power system with high penetration of renewables

ICT Application in EnergyInternet

- Big data & AI
- IoT and Digital twin
- Mobile internet application
- Cloud computation/ edge computation

Market Mechanism and Policy Supporting Energy Internet

- Market mechanism
- Transaction energy
- Block chain based energy transaction

Key Equipment of Energy Internet

- Energy router
- Solid state transformer
- Energy storage and transformation equipment

Business Model of Energy Internet

- Carbon transaction
- Participation and interactive
- Comprehensive energy service based on energy internet

Demonstration of Energy Internet

- District energy internet demonstration
- City-level energy internet demonstration
- Others

Power System Security and Cyber Security

- Physical Security Vulnerabilities
- Cyber Security Vulnerabilities
- Power system protection
- Cyber-physical attacks
- Complex CPS security

COMMITTEE

CONFERENCE CHAIR

| Yinbiao Shu | Chairman of China Electrical Engineering Society Academician of the Chinese Academy of Engineering |

CONFERENCE ADVISOR

| Hongbin Sun | Taiyuan University of Technology |

CONFERENCE EXECUTIVE CHAIR

| Qi Huang | Chengdu University of Technology |

CONFERENCE CO-CHAIRS

Mingshan Lin	CSEE, Vice Chairman of China Electrical Engineering Society
Jinyue Yan	Royal Institute of Technology
Jianzhong Wu	Cardiff University
Weihao Hu	University of Electronic Science and Technology of China

IMPORTANT DATES

Full Paper Submission Deadline	Notification of Acceptance
Aug. 30, 2022	Sept. 20, 2022
Early Registration Closes	Conference Date
Oct. 10, 2022	Oct. 28-30, 2022

PAPER SUBMISSION

Prospective authors are invited to electronically submit full papers strictly formatted according to IEEE Template in pdf format via

https://easychair.org/conferences/?conf=ei22022

CONTACTS

Conference Secretary
Zhenyuan Zhang
zhangzhenyuan@uestc.edu.cn

Co-Organizers

IEEE PES Power & Energy Society® | 中国电机工程学会 CHINESE SOCIETY FOR ELECTRICAL ENGINEERING | 电子科技大学 University of Electronic Science and Technology of China | 成都理工大学 CHENGDU UNIVERSITY OF TECHNOLOGY | 清华大学 Tsinghua University