

# Energy Internet for Carbon Neutrality

October 22-24, 2021 Taiyuan, China



**Oct. 22<sup>th</sup>-24<sup>th</sup>, 2021, Taiyuan, China**

The theme of the 5<sup>th</sup> IEEE Conference on Energy Internet and Energy System Integration is “**Energy Internet for Carbon Neutrality**”, focusing on the theory, roadmap, demonstration and deployment for energy & power transition development to support China’s action plan for ‘peak carbon dioxide emissions’ and ‘carbon neutral’. Specifically, the objective of the transition development of energy & power is to build new power system with new energy as the main body, having the performances of wide interconnection, intelligent interaction, flexibility & resilience, security & controllability.

We invite research papers, workshop proposals, and panel proposals in, but not limited to, the following

#### Topics associated with EI<sup>2</sup> :

- 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 energy internet
  - 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

#### Paper Submission :

Prospective authors are invited to electronically submit full papers strictly formatted according to IEEE Template in both pdf and word format following instructions accessible via [https://cms.amss.ac.cn/?lang=en\\_US](https://cms.amss.ac.cn/?lang=en_US) (English version available) .

#### Paper Template Download Address:

<https://www.ieee.org/conferences/publishing/templates.html>

All regular papers must adhere to the 6-page limit.

Accepted and presented papers will be submitted for inclusion in the IEEE Xplore online digital library and EI compendex.

## Special Guests of the Conference



**Jessica Bian**

Doctor, President, IEEE  
Power & Energy Society (PES)



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Academician of Chinese  
Academy of Sciences



**Yi Jiang**

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**Yican Wu**

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**Qiuliang Wang**

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Academy of Sciences



**Shay Bahramirad**

Doctor, Vice President of  
Quanta Technology, USA

## Conference Chairs

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Co-chair, China, Taiyuan University of Technology

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Co-chair, Sweden, Royal Institute of Technology

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Co-chair, USA, Southern Methodist University

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## Important Dates

Feb.25,2021	Notice of call for paper
Apr.10,2021	Submission system open
Aug.15,2021	Full paper submission deadline
Aug.30,2021	Notification of acceptance
Sep.20,2021	Early registration closes
Oct.22-24,2021	Conference

For additional information please visit [www.ieee-ei.org](http://www.ieee-ei.org). Please don't hesitate to contact [ieeee-ei2@tyut.edu.cn](mailto:ieeee-ei2@tyut.edu.cn) or [IEEE\\_EI2\\_2021@163.com](mailto:IEEE_EI2_2021@163.com) if you have any questions.