

# IEEE I&CPS Asia 2021



JULY 18–21, 2021 | CHENGDU, CHINA

## 2021 IEEE IAS Industrial and Commercial Power System Asia

Sponsored by IEEE, IEEE IAS, and organized by University of Electronic Science and Technology of China, 2nd IEEE Industrial & Commercial Power System Asia (IEEE I&CPS Asia 2021) Conference will be held during July 18–21, 2021 in Chengdu, China.

IEEE I&CPS Asia 2021 will focus on "Smart Energy Empowers Low Carbon Future". It aims to provide a high quality platform for researchers, practitioners, professionals, and students from all over the world to present their latest research findings, ideas, and applications in the related fields of Power Systems. Featured with keynote session, technical session, tutorial session and special session, IEEE I&CPS Asia 2021 will provide the delegates an unparalleled opportunity to exchange with qualified professionals and build future partnership.

The IEEE–IAS I&CPS Department invites you to submit papers for 2nd IEEE I&CPS Asia Conference.

### Important Dates

Submission Deadline	May 01, 2021
Notification Deadline	June 01, 2021

## Special Session on

### Emerging Power Electronics for Reliable and Efficient Microgrids of Communication System

The revolutionary development of the 5G communication system, artificial intelligence and cloud computing craves a more reliable, efficient and stable power supply from their hosting microgrids. With the increasing penetration of distributed generation and renewables into the power systems, the power quality, grid stability and load flow economic of the microgrids are facing challenges. The resultant voltage variation, frequency drifts, oscillation, insufficient resilience against contingency, etc. compromise the efficiency and reliability of the grid systems. This special session will focus on the control method, circuit topology, grid management technics to address the current and emerging technical problems of microgrids for communication systems.

For the 5G communication systems, the increase of the communication frequency will lead to a faster and informative data highway as well as higher power consumption and more communication stations. In view of the stringent requirements on power quality and reliability of the communication stations, corresponding grid supportive technologies must be available to sustain the stable and economic operation of the power grids. For a grid system integrated with considerable communication devices, possible issues, such as instability induced by the negative impedance of point of load (PoL), high distribution loss rendered by long-distance power transfer, second-order harmonics caused by the single-phase inversion/rectification, etc. can happen. These issues will hinder the stability and economy of the communication devices integrated microgrids.

🔗 Click to Enter IEEE I&CPS Asia 2021 Online Submission System

### TOPICS OF THIS SPECIAL SESSION INCLUDE, BUT NOT LIMITED TO THE FOLLOWING

- AC–DC and DC–AC power conversion system
- Optimization, control and operation of renewables–integrated power system
- Battery energy management system with state estimation, charging/discharging control
- Integration of renewable energy into power systems
- Highly efficient solid–state transformers
- Cyber–security of power electronics integrated microgrids
- Wireless power transfer application for communication devices
- Application of artificial intelligence in grid state estimation, observation and prediction

### SPECIAL SESSION ORGANIZERS

Minghao Wang	Research Assistant Professor, The Hong Kong Polytechnic University,
Liansong Xiong	Assistant Professor, Nanjing Institute of Technology
Menglin Chen	Postdoctoral Research Fellow, The University of Hong Kong
Yufei He	Postdoctoral Research Fellow, The Hong Kong Polytechnic University

### PAPER SUBMISSION

Paper Submission link:

<https://easychair.org/my/conference?conf=ieeeeicpsaisa2021>

Up to 50% of the accepted papers will be eligible for IAS journal review and all of the accepted papers are needed for presentation at IEEE I&CPS Asia 2021 by authors.

All submissions should be written in English with a maximum paper length of six (6) printed pages including figures and references without incurring additional page charges (maximum 4 additional pages with over-length page charge for an additional fee, if accepted) in the standard IEEE two-column conference format.

### PUBLICATION

Accepted full papers of IEEE I&CPS Asia 2021 will be published in conference proceedings by IEEE, submitted to IEEE Xplore, and indexed by EI and Scopus.

Excellent papers will be recommended for review by IEEE Trans on Industry Applications (proportion can reach up to 50%), or recommended to Global Energy Interconnection.

### CONTACT DETAIL

👤 Tinny Lee

✉ Email: [icpsasia@yaang.cn](mailto:icpsasia@yaang.cn)

☎ Tel: (86) 28 87 555 888

📱 Mob: (86) 135 4138 2102