

IEEE I&CPS Asia 2021



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

Future RE100–compliant Smart Power Distribution Networks with High Penetrations of Power Electronics

RE100 is a global initiative led by Climate Group and in partnership with CDP, bringing together the world's most influential businesses committed to 100% renewable electricity. Future smart power distribution networks will follow the standards of RE100 to accelerate change towards zero carbon grids at scale. For a power distribution network with 100% renewable energy resources, power electronics systems must be highly penetrated. As the number of power electronics–based devices significantly increased, it is clear that existing technical solutions and industry practices will no longer be suitable. Several critical issues in stability, security, safety, scalability, controllability, power quality, and efficiency, etc., need to be addressed to bridge the gap between the two research areas of distribution systems and power electronics, to facilitate the realization of 100% renewable energy sources with high penetrations of power electronics. By considering the growing interest in power electronics–based smart power distribution networks around the world, this special session invites a broad spectrum of contributors to develop the interdisciplinary technical approaches. This special section aims at discussing on various relevant topics associated with high penetrations of power–electronics for renewable energy sources to support plug–and play, enhance the economic efficiency, and improve the capability, resiliency, reliability, security, safety, scalability, robustness of future RE100–compliant smart power distribution networks.

For a power distribution network with 100% renewable energy resources, power electronics systems must be highly penetrated. Therefore, various critical issues of stability, security, safety, scalability, controllability, power quality, and efficiency, etc., need to be addressed. By far, relevant research activities have not been fully conducted. The organization of this special session can help researcher around the world to bridge the research gap by discussing about this topic. This special session is highly relevant to the main topics of this conference community.

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

- Solid–state technologies for distribution–level applications.
- Grid integrations of inverters, rectifiers, DC–DC converters, etc.
- Optimization and control power electronics–based power systems.
- Stability, reliability and resilience of microgrids
- Cyber–security issues of smart power distribution systems.
- The cutting–edge communication technology in smart power distribution system.
- Economic dispatch of power electronics–based distributed energy resources
- Applications of Artificial Intelligence for smart power distribution systems.
- Proof–of–concept demonstration and real–world implementations.
- Innovative training activities and new technology

SPECIAL SESSION ORGANIZERS

Dr. Yun Yang

The Hong Kong Polytechnic University

PAPER SUBMISSION

Paper Submission link:

<https://easychair.org/my/conference?conf=ieeeicpsaisa2021>

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

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