

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.



Special Session on

Special Session Introduction



Planning and Management of Flexible Resources in Low-Carbon Integrated Energy Systems

Integrated Energy Systems (IES) whereby electricity, heat, cooling, fuels, transport, and so on optimally interact with each other at various levels (for instance, within a district, city or region) represent an important opportunity to increase technical, economic and environmental performance relative to "classical" energy systems whose sectors are treated "separately" or "independently". This performance improvement can take place at both the operational and the planning stage. While such systems and in particular systems with distributed generation of multiple energy vectors can be a key option to decarbonize the energy sector, the approaches needed to model and relevant tools to analyse them are often of great complexity.

In this sense, this special session aims to gather, share and foster original research articles on the recently emerging and cross-disciplinary field of IES, with a particular focus on "Flexible Resources". Manuscripts from interdisciplinary groups with both theoretical interpretation and practical verification are strongly encouraged.

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IMPORTANT DATES

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

SPECIAL SESSION ORGANIZERS

Sidun Fang	The Chinese University of Hong Kong
Shenxi Zhang	Shanghai Jiao Tong University
Ruijing Liao	Chongqing University

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

- Planning and scheduling of flexible resources in IES, including thermal/cooling, renewable energy, energy storage, transport flow, data center, etc.
- Optimization methods for IES, including classical, stochastic and robust optimization, etc.
- Statistical enhancements, machine learning and data-driven methods to forecast the behaviors of various flexible resources
- Multi-market scenario modeling and analysis of heat, hydrogen generation of electricity, etc.
- Techno-economic modeling and evaluation of IES
- Models to value the options for capacity storage in IES
- Advanced system models integrating the physics of heat transformations and the time dynamics of generation in IES with CHP (combined heat and power) technologies
- New models of predicting load and supply under stochastic incidences of resource availability
- Models for economic value of technologies across regional and spatio-temporal frameworks
- Modeling the performance of variable renewable energy on techno-economic thresholds

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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.