

INTRODUCTION

Sponsored by IEEE, IEEE IAS, organized by Shanghai Jiao Tong University, co-organized by University of Electronic Science and Technology of China, Shandong University, and North China Electric Power University, 2022 IEEE IAS Industrial and Commercial Power System Asia (IEEE I&CPS Asia 2022) Conference will be held during July 8-11, 2022 in Shanghai, China.

IEEE I&CPS Asia 2022 will focus on 'Towards Low-carbon Power System', and aim 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 2022 will provide the delegates an unparalleled opportunity to exchange with qualified professionals and build future partnership.



SPECIAL SESSION ON

Operation and Planning of New Distribution Systems

The massive connection of distributed energy resources (renewable generation, storage, electric vehicles, etc.) is the inevitable development direction of distribution systems, but also brings changes. Users are not only the consumers, but also the producers and responders of electric energy. Meanwhile, the randomness, intermittence and fluctuation of renewable energy have brought great challenges to the safe operation of the distribution network. The operation and planning will play an important role in building new distribution systems. It is necessary to build clean, low-carbon, safe and efficient new distribution systems with innovating the operation and planning mode.

TECHNICAL OUTLINE OF THE SESSION

This special session focuses on a hot research topic, new distribution systems. The new distribution system characterized by high permeability distributed renewable energy connection, the influx of social resources under market reform, the emergence of new loads and the improvement of high-quality power supply-demand is an important part of the new distribution system, and its planning is facing unprecedented challenges.

By optimizing the size and location of power equipment or operation mode of power transmission and transaction, clean, low-carbon, safe and efficient new distribution systems can be built. Topics of interest include (but are not limited to): 1) Planning and operation of distributed generation, energy storage, electric vehicle infrastructures, etc. 2) Low-carbon oriented planning and operation method 3) Market integrated planning and operation method 4) Artificial intelligence-based technology for planning and operation of distribution systems 5) The new technologies in developing new distribution systems.

SPECIAL SESSION ORGANIZERS

Yue Xiang	Sichuan University
Miadreza Shafie-khah	University of Vaasa
Ran Li	Shanghai Jiao Tong University

IMPORTANT DATES

Submission Deadline	May 15, 2022
Notification Deadline	June 15, 2022

PUBLICATION

Submissions to IEEE I&CPS 2022 will be peer reviewed on the basis of technical quality, relevance to conference topics, originality, significance, clarity, etc. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

Please enter IEEE I&CPS Asia 2022 online submission system and choose 'SP001: Operation and Planning of New Distribution Systems' to submit papers.

Submission Link:
<https://easychair.org/conferences/?conf=iieeeicpsasia2022>

