

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

Aggregation, Regulation and Management of Distributed Resources in Distribution Systems

Developing distributed resources is an inevitable choice for constructing the new power system to help realize achieving the “double carbon” goal. However, the widespread access of distributed resources has brought great challenges of real-time changes in operating status and multiple uncertainties in operating environment to the distribution network. Flexible aggregation, regulation and management of multiple types of distributed resources play an important role in distribution system operation facing complex and changeable operating conditions. Thus, introducing novel techniques and theories for aggregation, regulation and management of distributed resources is of great significance in facilitating the safe, stable and efficient operation of the distribution system.



TECHNICAL OUTLINE OF THE SESSION

This special session focuses on a hot research topic — aggregation, regulation and management of distribution resources in distribution systems. To cope with global climate changing, energy crisis and environmental pollution, promoting the active transformation of the energy structure into a low-carbon, clean and sustainable one has become a global consensus. In the new era, there will be a variety of massive distributed resources with different performances connected to the distribution network. In this sense, flexible aggregation, regulation and management of distributed resources in distribution systems have attracted significant attention from both academia and industry. Novel techniques and theories in related area are encouraged in this special session. Topics of interest include (but are not limit to): distribution system operation, flexible aggregation of distributed resources, regulation and management of distributed resources, coordinated dispatch of distributed resources, operation of virtual power plant in demand side, etc.

SPECIAL SESSION ORGANIZERS

Xu Wang

Shanghai Jiao Tong University

Zhiyi Li

Zhejiang 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 'SP003: Aggregation, Regulation and Management of Distributed Resources in Distribution Systems' to submit papers.

Submission Link:

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