

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**Coordinated Optimization Modeling, Control Strategies Management and Market Mechanism Design for Energy Storage**

Energy storage (ES) plays a significant role in promoting energy green transition, safeguarding energy operation security, and facilitating the realization of double-carbon goals. However, the benefits and efficiency of deploying ES are limited for the lack of a sound cost channeling mechanism and corresponding transaction norms. Appropriate coordinated optimization modeling, control strategies management and market mechanism design for ES are urgent problems to be solved for its large-scale application. Thus, introducing novel techniques and theories related to the coordinated optimization, control strategies and market mechanism design of ES is of great significance in promoting the ES development and accelerating the construction of new power systems.

**TECHNICAL OUTLINE OF THE SESSION**

This special session focuses on a hot research topic-Coordinated optimization modeling, control strategies management and market mechanism design for energy storage. To cope with the challenges caused by massive consumption and heavy dependence on fossil energy, promoting the active transformation of the energy structure into a low-carbon, clean and sustainable one has become a global consensus. While the large-scale application of ES is one of the effective means to break through bottlenecks of the energy transition. In this sense, appropriate coordinated optimization modeling, control strategies management and market mechanism design for ES have attracted significant attention from both academia and industry. Novel techniques and theories in related areas are encouraged in this special session. Topics of interest include (but are not limited to): multi-objective optimization for ES systems, control strategies management of ES, market mechanism design of ES, uncertainty modeling for ES systems, business model analysis, and economic evaluation for shared ES, etc.

SPECIAL SESSION ORGANIZERS

Dong Han	University of Shanghai for Science and Technology
Shiwei Xia	North China Electric Power 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 'SP010.Coordinated Optimization Modeling, Control Strategies Management and Market Mechanism Design for Energy Storage' to submit papers.

Submission Link:
<https://easychair.org/conferences/?conf=ieeEICPSAsia2022>

