IEEE I&CPS ASIA 2023 SPECIAL SESSION ON

Flexible Mechanism, Analysis and Control of Power Systems with High Penetration of Renewable Energy

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IEEE I&CPS —Asia 2023—

2023 IEEE IAS Industrial and Commercial Power System Asia Conference

July 7–9, 2023 | Chongqing, China

CONFERENCE INTRODUCTION

Sponsored by IEEE, IEEE IAS, organized by Chongqing University, China Electrotechnical Society, co-organized by University of Electronic Science and Technology of China, Shandong University, North China Electric Power University, Supported by Global Energy Interconnection, DeCarbon, Transactions of China Electrotechnical Society, Proceedings of the CSEE, Power System Technology, High Voltage Engineering, Electric Power Information and Communication Technology, Power and Energy Systems and High Voltage. 2023 IEEE IAS Industrial and Commercial Power System Asia (IEEE I&CPS Asia 2023) Conference will be held during July 7–9, 2023 in Chongqing, China.

SPECIAL SESSION ON

Session Title: Flexible Mechanism, Analysis and Control of Power Systems with High Penetration of Renewable Energy

Special Session Organizer: Jia Liu, Hangzhou Dianzi University
Zao Tang, Hangzhou Dianzi University
Tingjian Liu, Sichuan University

Abstract: Aiming to achieve energy low-carbon transition, the capacity of renewable energy, such as wind and solar energy, increases sharply and the renewable energy would be the main body of the future power supply framework. However, given uncertainties associated with renewable energy generation, there are many technical challenges to realize the renewable energy substitution from the perspectives of power, energy and social duty. Among economy, security and reliability of power systems, flexibility becomes a new focus property in the presence of renewable energy. Once the flexibility of a power system is not enough, renewable energy curtailment or load shedding may occur, which would reduce the renewable energy accommodation capability or power supply reliability. Thus, it is worthy to exploit the theories and methods for flexible mechanism, operation optimization and expansion planning of power systems with high penetration of renewable energy. This special session focuses on flexible characteristic and mechanism for high renewable energy power systems, multi-objective coordinated power system planning methods, large-scale distributed flexible sources clustering approaches, flexibility evaluation and operation optimization, etc.

For more details, please visit at **http://ieee-icps.com/2023/ss010.html**

PAPER SUBMISSION IMPORTANT DATES:

Submission Deadline: April 30, 2023

Notification Deadline: May 30, 2023

PUBLICATION

Submissions to IEEE I&CPS 2023 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.

Excellent papers will be recommended for review by IEEE Trans on Industry Applications (proportion can reach up to 50%), Global Energy Interconnection and DeCarbon.

SUBMISSION REQUIREMENTS

- The submission has not been previously published, nor is it before another conference for consideration (or an explanation has been provided in Comments to the Director).
- Prospective authors should prepare a completed final manuscript following IEEE template, with titles and names, affiliations, addresses, and email of all co-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. The fee for the additional page can be seen here. Papers exceeding 10 pages will not be accepted.

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