

IEEE I&CPS ASIA 2023 SPECIAL SESSION ON

Key Technology of Power Balance Capability Evaluation and Improvement Considering Large-Scale Renewable Energy Integration

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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 and DeCarbon. 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: Key Technology of Power Balance Capability Evaluation and Improvement Considering Large-Scale Renewable Energy Integration

Special Session Organizer: Shuanglei Feng, Renewable Energy Research Center, China Electric Power Research Institute, Beijing, China
Peng Li, Shandong University



Abstract: Over the past few decades, the growth of wind power and solar power has increased rapidly in China. In 2021, the increment of renewable energy generation installed capacity is 0.134 GW, accounting for 76.1% of the total amount of the increment of power generation installed capacity in China. The integration of large-scale renewable energy has significantly enhanced the fluctuation and uncertainty of power, resulting in serious power balance problem of power grids. This Special Session aims to assess and improve the power balance capability of power grids through some technologies, e.g., enhancing renewable power forecast accuracy, improving collaborative dispatch, and mining flexibility.

For more details, please visit at <http://iee-icps.com/2023/ss007.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.

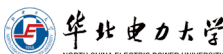
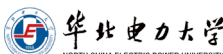
SUBMISSION REQUIREMENTS

- 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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CONTACT US

Joyce Zhong

Tel: (86) 28 87 555 888

Mob: (86) 186 2826 3876

Email: icpsasia@yaang.cn