

Survivability Improvement Technologies of Power System for Unconventional Extreme Scenarios

Introduction and Topics

As one of the most important infrastructures, the safe and stable operation of power system directly influences social and economic development. However, the safety and stability of power system are confronted with numerous challenges, in which unconventional extreme events, such as destructive strikes, electromagnetic attacks, cyber attacks, etc, would pose great threat to the survivability of power system. But, this kind of threat has not received enough attention. Furthermore, the community still lacks sufficient research to improve the survivability of power system under unconventional extreme scenarios. To this end, this Special session focuses on the topic of the survivability improvement technologies of power system for unconventional extreme scenarios, topics of interest including, but not limited to:

- Quantitative evaluation methods for power system survivability against unconventional extreme scenarios
- Modeling strategies of power system damage morphology evolution against unconventional extreme scenarios
- Survivability improvement strategies of power system against unconventional extreme scenarios
- Emergency support strategies of power system against unconventional extreme scenarios
- Self-healing control and fast recovery strategies of power system after unconventional extreme events.

Special Session Chairs



Prof. Donglian Qi
Zhejiang University, China



Prof. Yunfeng Yan
Zhejiang University, China



Prof. Xianbo Wang
Zhejiang University, China



Prof. Yulin Chen
Zhejiang University, China

IMPORTANT DATES

Submission Deadline
October 10, 2024

Notification Deadline
November 10, 2024

Camera-Ready Deadline
November 30, 2024

Publication

Submissions will be reviewed by the conference technical committees, and accepted papers will be published in ICSCGE 2024 International Conference Proceedings, which will be submitted for inclusion in the **IEEE Xplore Digital Library**, and submitted for indexing by EI compendex and Scopus.

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