



Advances in Power System Dynamics, Stability, Control and Dispatch with Large-Scale Renewable Energy Penetrated

Guest Editors:

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Message from the Guest Editors

Dear Colleagues,

In this Special Issue, we encourage contributions addressing the barriers existing in renewable energy-penetrated power system stability analysis, control, and dispatch. Recent advances in real-time simulation, intelligent control, and artificial intelligence-based optimization and control are also welcome. The topics of interest include, but are not limited to:

- (1) Stability analysis in renewable energy-penetrated power systems;
- (2) Stability analysis in microgrids, active distribution networks, and integrated energy systems;
- (3) Fast control or dispatch of renewable energy-penetrated power systems;
- (4) Fast control or dispatch of microgrids, active distribution network, and integrated energy systems;
- (5) Control of power electronic devices;
- (6) Control of flexible AC/DC transmission systems;
- (7) Artificial intelligence application in power system stability analysis, control, and dispatch;
- (8) Simulation techniques of transmission system microgrids, active distribution networks, and integrated energy systems with penetration of renewable energy.





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Message from the Editor-in-Chief

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