

Special Issue

Advances in Power System Dynamics, Stability, Control and Dispatch with Large-Scale Renewable Energy Penetrated, 2nd Edition

Message from the Guest Editors

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. Topics of interest include, but are not limited to, the following: (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 networks and integrated energy systems; (5) Control of power electronic devices; (6) Control of flexible AC/DC transmission systems; (7) Artificial intelligence applications in power system stability analysis, control and dispatch; (8) Simulation techniques of transmission system microgrids, active distribution networks and integrated energy systems with the penetration of renewable energy.

Guest Editors

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Deadline for manuscript submissions

closed (15 January 2026)



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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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