

Special Issue

Power System Stability and Control

Message from the Guest Editor

With the integration of renewable energy and high-voltage direct current (HVDC) transmission into power systems, the number of power electronic equipment in power systems is quickly increasing. However, due to the complex control, nonlinear switching, and wide-frequency dynamics of power electronic equipment, many new stability issues have emerged. Therefore, this Special Issue focuses on the stability analysis and advanced control of power systems dominated by power electronics. Original research articles and reviews are welcome. Topics of interest include (but are not limited to) the following:

- The identification and monitoring of instability sources in power systems;
- Stability modeling and simulations of power systems dominated by power electronics;
- Instability mechanism analysis dominated by renewable energy and HVDC;
- Wide-frequency oscillation analysis and mitigation of modern power systems;
- Robust stability control strategies for power systems, including model-driven and data-driven approaches;
- Application of artificial intelligence in power system stability analysis and control;
- Industrial cases and experience.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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