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Advances in Power System Stability and Control

Guest Editors:

Prof. Dr. Seon-Ju Ahn

Department of Electrical
Engineering; Chonnam National
University, Gwangju 61186, Korea

Prof. Dr. Hyun-Koo Kang

Department of Electrical &
Electronic Engineering, Hannam
University, Daejeon, Korea

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Message from the Guest Editors

Dear Colleagues,

Power system stability has always been a matter of importance, although different types of instability have emerged at different periods. Over the last decade, new challenges have emerged that make the operation of power system complex and difficult. This Special Issue aims therefore to encourage both academic and industrial researchers to present their latest findings on the advanced technologies and theories for the improvement of power system stability. Topics include but are not limited to the following:

- Impact analysis of uncertain renewable energy sources on power system operation
- Information and communication technologies for power system control
- Application of artificial intelligence to power system operation
- Advanced power electronics technologies
- Control of HVDC for the improvement of dynamic stability
- Energy storage system application for stability improvement
- Synthetic inertia from renewable energy sources
- PMU and wide area monitoring for power system control
- Advanced energy management system
- Advanced control theory for power system analysis and control



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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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