Special Issue

Challenges and Innovations in Stability and Control of Power Systems

Message from the Guest Editor

Modern power systems are becoming more complex, making it increasingly challenging to maintain system control and stability due to the rising integration of electric vehicles, distributed generation, and renewable energy sources. The stochastic character of renewable resources and the decreased system inertia brought about by the replacement of traditional synchronous generators have complicated traditional stability notions like rotor angle, frequency, and voltage stability. Topics of interest for publication include, but are not limited to, the following:

- power system modelling and simulation
- power system stability and control
- transient stability, voltage stability, and frequency stability
- wide-area monitoring systems (WAMS)
- renewable energy integration
- grid resilience and smart grid technologies
- grid modernization and machine learning for grid stability
- real-time control and monitoring
- power system dynamics
- microgrids and distributed generation
- inverter-based resources (IBRs)
- FACTS and HVDC technologies

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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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