Special Issue

Complex and Nonlinear Dynamics in Electrical Power and Energy Storage Systems: Analysis, Modelling and Control

Message from the Guest Editors

The main goal of this SI is to present a rapid exchange of ideas and techniques in analysis, modelling and control of electrical power and energy storage systems and, thus, to establish an international forum where to present novel developments and achievements. Potential topics include, but are not limited to:

- Nonlinear dynamics in power grid, microgrids, energy storage, and renewable energy systems;
- Analysis, modelling and control for power grid, microgrids, energy storage, and renewable energy systems;
- Model-based and data-driven modelling techniques for diagnosis, monitoring and control;
- Emergent, chaotic, adaptive, self-organized, decentralized, and multi-scale complex phenomena in electrical systems;
- Advanced, robust, and distributed control of electrical systems;
- Artificial intelligence applied to electrical energy systems and devices;
- Electrical power generation, management, transmission and distribution;
- Batteries and storage devices;
- Health monitoring and life cycle assessment of electrical equipment;

Guest Editors

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Deadline for manuscript submissions

closed (27 June 2024)

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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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