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

Guest Editors:

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Deadline for manuscript submissions:
27 June 2024

Message from the Guest Editors

Dear Colleagues,

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;

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Message from the Editor-in-Chief

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