

Special Issue

Advanced Nonlinear Control and Optimization for Renewable Energy Systems, Smart Grids and Electric Vehicles

Message from the Guest Editor

This Special Issue invites the submission of original research and review articles focused on the innovation and application of nonlinear control and optimization techniques in renewable energy systems, smart grids, and electric vehicle applications. Topics of interest include, but are not limited to, the following:

- Nonlinear, adaptive, and robust control methods for power systems;
- Control and optimization of EV integration in smart grids;
- Advanced energy management strategies for renewable systems;
- Intelligent control of power converters and electric drives;
- Optimization techniques for system performance, stability, and efficiency;
- Applications of model predictive control, sliding mode control, fuzzy logic, artificial neural networks (ANNs), Q-learning, and other advanced nonlinear and data-driven control methods;
- Online and offline optimization techniques for system performance, stability, and efficiency;
- Real-world implementation in renewable energy and smart grid environments.

Guest Editor

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Message from the Editorial Board

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