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Optimization and Control of New Energy Systems

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Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

This Special Issue aims to make an effective contribution to highlight all solutions, methodologies, approaches, and tools to collect first-class research along this direction, focusing on the most recent investigations and studies on optimization and control strategies for new power system.

Potential topics aims at covering themes including but not limited to:

- Modelling and simulation of renewable energy systems;
- Operation planning and control of energy storage systems;
- Application of optimization techniques such as meta-heuristic algorithms, reinforcement learning, and neural networks to energy systems and grids;
- Control strategies such as fuzzy logic control, sliding-mode control, feedback control, perturbation/disturbance observer-based control, H-infinity control, and backstepping control for energy systems and grids;
- Approaches for the optimized design of architectures and sizing of energy systems and grids;
- Solutions and techniques for energy generation, conversion, distribution, storage, and use (e.g., renewable energy generation, energy storage systems, etc.).



mdpi.com/si/100490

Special Issue



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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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