Special Issue

Algorithmic Approaches and Control Techniques for Energy Optimization in Power Converters and Grid Transmission

Message from the Guest Editor

Dear colleague,

It is widely recognized that effective management of energy resources is essential for both environmental sustainability and the efficient redistribution and reuse of resources. In contemporary energy systems, control strategies and optimization algorithms are pivotal. Energy optimization is a critical factor in various fields, including smart grids, microgrids, renewable energy systems, electric and hybrid vehicles, traditional engines, energy storage solutions, electric motors, and alternative actuators.

This Special Issue of *Energies* will focus on the latest advancements in intelligent control techniques and algorithms in general, designed for optimal energy management in the aforementioned systems, or any system where intelligent control algorithms or techniques are key for optimizing energy efficiency and performance.

We cordially invite you to contribute review papers or research papers to this Special Issue.

We look forward to collaborating with you.

Guest Editor

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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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