Special Issue

Control and Optimization of Microgrids and Renewable Energy Systems

Message from the Guest Editors

Renewable energy-based microgrids are playing a vital role in reduction of energy transmission systems and to produce energy near to consumption points, thus constituting small distribution systems. These are small-scale energy grids that can operate independently or autonomously from the main energy grid. Mainly there are two types, i.e., DC microgrid and AC microgrid. Integration of renewable energy resources introduce numerous challenges to the legacy system are required to achieve affordability, resilience, sustainability, and prosperity. The interconnected microgrids also possess challenges in securing from cyber threats. This Special Issue will include papers related to the control and optimization of microgrids and their applications in industry, transportation, water, waste, and urban and residential infrastructures.

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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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