Special Issue

Control and Optimization for Energy Management in Smart Grids and Renewable Energy Systems

Message from the Guest Editor

Optimization techniques and automatic control are key tools to produce novel strategies for the planning and operation of modern energy systems. This Special Issue will gather together recent results in the active area of optimization-based energy management and control. Topics of interest include, but are not limited, to the following:

- Learning-based and data-driven control strategies for energy management;
- Optimal microgrids operation under uncertainty;
- Distributed and consensus-based optimization in energy systems;
- Control strategies for charging stations, electric vehicles and fleets;
- Storage systems operation under uncertainty and aging constraints;
- Control of virtual power plants and flexible loads for the integration of renewable sources;
- Demand side management programs and contracts design for the involvement of “prosumers” in the grid.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2022)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/97293

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About the Journal

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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