Special Issue

Optimal Control of Smart Distributed Power and Energy Systems

Message from the Guest Editors

Dear colleagues, The main aim of the Special Issue is to collect papers in the field of modeling, control, and optimization of power distribution grids (both in standalone and grid-connected operation), with specific attention to methods and real infrastructure applications. Specific topics of interest for the Special Issue include, amongst others:

- New models for distribution power grids;
- Optimal control and planning of distribution grids (both in grid-connected and islanded mode);
- Optimal control and planning of hybrid systems (wind, hydrogen, fuel cells, hydroelectric plants, etc.);
- Hierarchical control;
- Cooperative and non-cooperative control;
- Optimal integration and planning of renewables in distribution grids;
- Stochastic optimization;
- Model predictive control;
- Distributed optimization;
- Optimal control of aggregators of demand response;
- New power market structures for distribution grids;
- Modeling and control of flexible loads;
- Applications in different demand contexts (e.g., industrial, agriculture, smart cities).

Guest Editors

Dr. Roberto Sacile
Dr. Giulio Ferro
Dr. Michela Robba

Deadline for manuscript submissions

closed (20 July 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/43799

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)