Special Issue

Advanced Control and Management Techniques for Power Converters in Microgrids

Message from the Guest Editor

In this Special Issue, we invite novel high-quality research paper submissions covering a wide range of topics related to provide advanced control and management techniques for power converters in microgrids. Topics of interest for publication include, but are not limited to, the following:

- DC microgrids;
- Hybrid microgrids (DC and AC microgrids);
- Switched systems;
- Current sharing;
- Voltage regulation;
- Uncertain systems;
- Advanced and robust control of converters;
- Sliding mode control of converters;
- High-gain control of converters;
- Distributed control;
- Supervisory control;
- Model predictive control;
- Consensus control;
- Fuzzy control.

Guest Editor

Dr. Giacomo Canciello

1. Department of Engineering, University of Campania “L. Vanvitelli”, 81031 Aversa, Italy
2. Aeromechs, 81031 Aversa, Italy

Deadline for manuscript submissions

closed (31 January 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 8.3

mdpi.com/si/197373

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 8.3

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)