

Special Issue

Advanced Control Strategies for Power Converters and Microgrids

Message from the Guest Editor

Recently, microgrids have received widespread attention as small-scale power distribution systems that can effectively integrate distributed power generation units, renewable energy sources, energy storage systems, and different types of power electronic loads.

The Special Issue aims to introduce and disseminate the latest advances in theoretical analysis, structural design, system modeling, control strategies, and extended applications related to AC/DC MGs with various types of converters.

Areas of interest for publication include, but are not limited to:

- All aspects of DC MGs, AC MGs, hybrid AC/DC MGs, and MG clusters;
- MG topologies and application technologies for additional electric transportation, aerospace, and new energy systems;
- Integration of renewable energy and energy storage;
- Advanced control of MG converters;
- Distributed cooperative control for MGs;
- Cybersecurity and resilient control;
- High-efficiency integrated power converter development;
- Energy management and scheduling algorithms;
- Advanced modeling techniques for MGs;
- System stability analysis methods;
- Electromagnetic compatibility for devices in MGs;

Guest Editor

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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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