

Special Issue

Emerging Directions in Power Converter Control for Renewable Energy Systems and Microgrids

Message from the Guest Editors

The topics of interest for publication include, but are not limited to, the following:

- Power converter modelling for AC, DC, and AC–DC hybrid.
- Power converters control for AC, DC, and AC–DC hybrid.
- New topologies for power converters applied for renewable energies and microgrids.
- Grid integration through power electronics.
- Storage systems.
- Bidirectional DC–DC converters in DC microgrids.
- Renewable isolated microgrids.
- Power converter control for photovoltaic systems.
- Power converter control for wind power systems.
- Power quality, reliability, and resilience.
- Trends in power converters.
- Predictive control for power converters.
- Linear control for power converters.
- Nonlinear control for power converters.
- Green hydrogen systems.
- Trends in solar, wind, and marine energy power systems.
- Electromobility and its impact on microgrids.
- Novel renewable energies and power topologies for microgrid applications.

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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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