

Special Issue

Trends and Prospects in DC–DC/DC–AC Converters and Their Control Techniques for Renewable Energy Applications

Message from the Guest Editors

This Special Issue aims to bring together the latest research on DC–DC/DC–AC converters and their control techniques for use in renewable energy applications. It is intended to constitute a useful resource for researchers, engineers, and practitioners working in the field of power electronics and renewable energy systems. Potential authors are encouraged to submit research papers that present original and innovative contributions to the field. Topics of interest include, but are not limited to advanced converter topologies, soft switching techniques, resonant converters, multilevel converters, and power electronic interfaces for use in renewable energy systems. In addition, the Special Issue welcomes papers on advanced control strategies for DC–DC/DC–AC converters, including discussions of voltage / current mode control, predictive control, sliding mode control, PID control, and model predictive control.

Keywords DC–DC/DC–AC converters

Control strategies

Modulation techniques

Renewable energy

Power electronics

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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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