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Function Design and Control of Multilevel Converters

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Deadline for manuscript
submissions:

closed (31 January 2020)

Message from the Guest Editors

This Special Issue is intended to motivate further research, development, and design of multilevel converters. Increasing the state-of-the-art of emerging topologies, and novel techniques to find optimal solutions for desired applications. Original contributions including experimental validation are expected. The topics of interest include, but they are not limited to the following:

- Traditional multilevel and multicell converter topologies;
- Optimization methods for the design of power converters;
- Passive filter design and selection of the appropriate semiconductors;
- Multilevel modulation strategies;
- Natural voltage balancing in multilevel capacitor-based inverters;
- Multilevel converters for renewable energy power applications;
- Multilevel converters for EV's applications;
- Fault tolerant analysis in multilevel converters;
- Dedicated control strategies for fast response and high bandwidth;
- EMC behavior and design of EMC filters for multilevel converters.



mdpi.com/si/26753

Special Issue



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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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Journal Rank: CiteScore - Q1 (Control and Optimization)

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