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Advances in Modelling and Control of Power Converters

Guest Editors:

Dr. Yanbo Wang

Department of Energy
Technology, Aalborg University,
9220 Aalborg, Denmark

Dr. Dong Wang

Department of Energy
Technology, Aalborg University,
9220 Aalborg, Denmark

Dr. Weihua Zhou

Department of Electrical and
Computer Systems Engineering,
Monash University, Melbourne
3800, Australia

Deadline for manuscript
submissions:

closed (31 January 2024)

Message from the Guest Editors

Power electronic converters are critical components in modern industry , including renewable energy generation, electric vehicles, electric aircraft, robotics, etc. The rapid development of power electronic technologies toward high power density and high frequency also poses new challenges.

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

- Advanced modeling and analysis methods of power converters, such as nonlinear method, artificial intelligent-based method, etc.
- Advanced topology of power converters.
- Advanced control strategy of power converters.
- Wide bandgap device and its application in power conversion system.
- Advanced application of power converters in emerging fields such as more electric aircraft, electric vehicles, and wind power converters.
- Thermal analysis and management technology of power converter.
- Modeling, analysis, and control of multiple paralleled converters.
- Advanced power conversion technology for a renewable microgrid.
- The application of AI technology in power converter.
- Real-time digital modeling and simulation technology of power converter.



mdpi.com/si/178460

Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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 (*Engineering (miscellaneous)*)

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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