Special Issue

Modeling and Mitigation of Reliability Issues in Power Converters for Modern Power Grids

Message from the Guest Editors

We cordially invite you to submit your original works and research papers to this Special Issue. Potential topics include but are not limited to:

- Fault diagnostics, prognostics, and mitigations for power converters;
- Lifetime model formulations for power components;
- Fault-tolerant strategies and designs;
- Real-time health conditions of circuit elements;
- Identification and introduction of different factors that impact the reliability of power converters;
- Heat sink approaches and cooling system designs;
- Reliability-driven multiobjective design optimization of power converters;
- Practical reports of reliability issues in power converters of transportation electrification segment, including but not limited to electric vehicles, electric ships, and more electric aircrafts;
- Review papers related to the reliability and faulttolerant capability of power converters;
- Software tools for reliability analyses;
- Artificial Intelligence applications for reliability-based design of power electronic systems.

Guest Editors

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Deadline for manuscript submissions

closed (15 August 2022)



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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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