

Special Issue

Advanced DC-DC Converter Topology Design, Control, Application

Message from the Guest Editors

This Special Issue aims to delve into the realm of advanced DC-DC converter topology design, control, modulation, and applications. It invites researchers to contribute their insights and findings on a wide range of topics, including, but not limited to, the following:

- Novel material-based switching devices and components in DC-DC converters;
- Advanced or low-cost fault-tolerant control techniques for DC-DC converters;
- Reliability and security assessment of DC-DC converters;
- Emerging applications and advanced topology of DC-DC converters;
- High-efficiency and high-gain modulation and control techniques in DC-DC converters;
- DC-DC converter-integrated power electronic system techniques.

Keywords

- DC-DC converters
- renewable energy
- power systems
- electric vehicles
- converter topologies
- system modulation
- control
- energy efficiency

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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