

Special Issue

Emerging Technologies in DC Microgrids

Message from the Guest Editors

As a new paradigm of the power grid, the architecture design, system operation, device maintenance, and fault diagnosis of DC microgrids remain to be resolved. This Special Issue is, therefore, focused on emerging technologies and aims to seek high-quality submissions that address recent breakthroughs in DC microgrids. The topics of interest include, but are not limited to, the following:

- Application of artificial intelligence;
- Control, planning, and operations;
- Energy management and multi-energy complement;
- Fault diagnosis, warning, and situational awareness;
- Hardware-in-loop testing and digital twins;
- Interaction of microgrids with power systems;
- Modelling, analysis, and design;
- New energy sources and storage technologies;
- Power quality enhancement;
- Protection strategies;
- Stability analysis of microgrids;
- Stationary and mobile microgrids.

Guest Editors

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Deadline for manuscript submissions

closed (15 May 2025)



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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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