

Special Issue

Self-Healing and Fault-Tolerance Technologies for Smart Converters

Message from the Guest Editor

Today, power converters are essential for the energy transition toward a system based on renewable electric energy generation, electric power storage, and the electrification and integration of new vehicles.

Therefore, the future will be focused on the application of self-healing and fault tolerance technologies for smart converters. The main goal of this Special Issue is to publish new scientific knowledge relevant but not limited to the following topics:

- Self-healing control of power converters;
- Fault detection techniques in power converters;
- Fault diagnosis techniques in power converters;
- Fault tolerance power converters;
- Prognostics in power converters;
- Smart converters;
- Techniques to improve reliability of power converters

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

