

Special Issue

Power Electronics and Its Applications in Power System

Message from the Guest Editors

In recent years, significant research has been conducted to provide novel topologies that combine micro grids and AC voltage generation into the power systems. Therefore, the application of power electronics in electrical systems could be an effective solution to improve the efficiency, reliability and compactness of power systems. This Special Issue welcomes submissions of original research and review papers in the field of power electronics and its applications in power systems. Major topics include, but are not limited to, the following:

- Power electronic converters;
- HVDC and HVAC;
- Power electronics-equipped devices in power systems;
- Flexible AC transmission systems;
- Control and implementation techniques for power converters;
- Power converters design, reliability and power density for renewable energy systems;
- Smart grids, power market and intelligent systems;
- Digital modeling of power electronic devices and AI-based technologies.

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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).