

Special Issue

Emerging Electric Machines and Drives for Energy Conversion

Message from the Guest Editors

This Special Issue aims to provide a focused forum for presenting recent theoretical, computational, and experimental advances in emerging electric machines and drive systems that enable efficient and intelligent energy conversion. In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, the following:

- Novel electric machine topologies (PM, reluctance, hybrid-excited, multiphase, axial-flux, transverse-flux, high-speed machines, etc.);
- Modeling, simulation, and digital twin approaches for electric machines and drives;
- Advanced drive systems and control techniques for electric machines;
- Fault-tolerant electric machines, condition monitoring, and diagnostics;
- Thermal management, advanced materials, and manufacturing technologies for electric machines and drive systems;
- Integration of power electronics with electric machines;
- Electric machines and drives for renewable energy systems and transportation electrification;
- Emerging and novel applications of electric machines and drive systems.

We look forward to receiving your contributions.

Guest Editors

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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).