

Special Issue

New Advances and Applications in Electromagnetic Machines

Message from the Guest Editors

This Special Issue aims to present the latest advances in the design, analysis, optimization, and application of next-generation electric machines. We invite original research articles, critical reviews, and application-driven case studies that address both fundamental challenges and emerging opportunities in areas such as electric propulsion, robotics, aerospace, renewable energy systems, and future mobility platforms.

Topics of interest include, but are not limited to, the following:

- (1) Permanent magnet machines;
- (2) Rare-earth-free and ironless machines;
- (3) High-speed and high-frequency machines;
- (4) AI-assisted and data-driven design optimization;
- (5) Coupled multiphysics design: electromagnetic, thermal, structural, acoustic;
- (6) Advanced manufacturing techniques for electric machines;
- (7) Advanced electromagnetic materials for electric machines;
- (8) Machine drive control.

We particularly encourage submissions that include experimental validations, control-integrated design strategies, or innovative electromagnetic topologies applicable to modern inverter-fed systems.

Guest Editors

Dr. Dae Yong Um

Department of Electrical Engineering, Gyeongsang National University, Jinju-si 52828, Gyeongsangnam-do, Republic of Korea

Dr. Yang Xiao

School of Engineering, University of Leicester, Leicester LE1 7RH, UK

Deadline for manuscript submissions

closed (15 February 2026)



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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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).