

Special Issue

Robust Design Optimization of Electrical Machines and Devices

Message from the Guest Editors

This Special Issue focuses on papers which show how modern artificial intelligence tools can be used for robust design optimization of electric machines and electrical devices, or how these tools can be benchmarked, or the correctness of the result validated. Topics of interest include but are not limited to:

- System-level modeling, multidomain automatic analysis tools, co-simulations, etc.;
- New numerical and analytical modeling techniques;
- Advanced modeling (electromagnetic, thermal, NVH, mechanical, EMC, insulation, etc.);
- Advanced models for diagnosis;
- Electromagnetic materials, iron losses, additional losses;
- Optimization techniques;
- Advanced testing (multiphysics performances, standard tests, life accelerated testing, etc.);
- Optimization and learning under uncertainty
- Model-based software development and validation of optimization of electrical machines or electric devices;
- Surrogate and reduced-order modeling of electric machines and electric devices.

More details:

https://www.mdpi.com/journal/electronics/special_issue/Optimization_EMD

Guest Editors

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Deadline for manuscript submissions

closed (27 March 2022)



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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 guest-edited 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 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).