



## Advancements in Electric Motors, Drives, Power Converters and Related Systems, 2nd Edition

Guest Editors:

**Dr. Ji Han**

**Dr. Yaqi Shen**

**Dr. Yikai Wang**

**Dr. Jian Qiao**

Deadline for manuscript  
submissions:

**28 February 2025**

### Message from the Guest Editors

Following the success of the 1st Edition of this Special Issue

([https://www.mdpi.com/journal/electronics/special\\_issues/AEMD](https://www.mdpi.com/journal/electronics/special_issues/AEMD)) in the 2nd Edition, we continue to assist all those interested in the topic to promote their vision and ideas.

This Special Issue will include, but is not limited to, the application of electric motors, drives, power converters and related systems to address the following areas:

- Power electronic-based power systems (PEPS);
- Power converters for mechanical, kinetic, and thermal heat sources;
- All aspects of DC/DC, DC/AC, AC/AC, AC/DC power converters;
- Ultra-low-power-consumption power converters;
- Energy harvesting and power converters;
- Power converters for new energy power generation systems;
- Optimal design for cost-effective power converter;
- Modulation and control techniques of motor drives;
- Enhancement of power density, efficiency, and reliability of motor drives;
- Performance evaluation of different motor drive topologies.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

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

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)