

Special Issue

Advanced Control Strategies for Power Electronics and Motor Drives

Message from the Guest Editors

This Special Issue focuses on advanced control strategies for power electronics and motor drives, which underpin electrified transportation, renewable energy systems, and modern power grids. It highlights innovative control approaches that address increasing system complexity and enable higher efficiency, faster dynamic response, improved control accuracy, enhanced reliability, and intelligent operation of advanced energy conversion systems. We invite original research and industry-focused contributions addressing advanced control technologies, including:

- Advanced control of electrical machines
- Advanced control of power electronic converters
- Model predictive control of power electronics and motor drives
- AI-based control, design, and predictive maintenance
- Intelligent sensing and condition monitoring
- Reliability and fault-tolerant control strategies
- Advanced gate drive, modulation, and control for WBG-based converters
- Industrial applications of advanced control in power electronics and motor drives

Guest Editors

Dr. Bo Wang
Dr. Shangjian Dai
Dr. Wenzhi Zhou

Deadline for manuscript submissions

20 October 2026



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/263928

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)