



machines

an Open Access Journal by MDPI



Electrical Machines, Power Electronics, and Motor Drives: Opportunities and Challenges

Guest Editors:

Dr. Ningfei Jiao

Department of Electrical
Engineering, Northwestern
Polytechnical University, Xi'an
710129, China

Dr. Ji Pang

Department of Electrical
Engineering, Xi'an University of
Posts & Telecommunications,
Xi'an 710061, China

Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

Recently, advanced electrical machines, power electronics, and motor drives are playing more and more important roles in almost all energy conversion applications, including high-end equipment, industrial and household appliances, aerospace application, transportation application, robotics, etc. Higher performance requirements and the harsher operating environment of the aforementioned applications have brought new opportunities and challenges for electrical machines, power electronics, and motor drives, such as higher power density, higher operating efficiency, and higher operating reliability.

Aiming at these opportunities and challenges, this Special Issue focuses on gathering and disseminating the latest research and advanced technologies in the field of electrical machines, power electronics, and motor drives, including new theoretical developments, novel topologies, and control methods.



mdpi.com/si/155812

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

**Prof. Dr. Antonio J. Marques
Cardoso**

CISE—Electromechatronic
Systems Research Centre,
University of Beira Interior,
Calçada Fonte do Lameiro, P -
6201-001 Covilhã, Portugal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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)*, *Inspec*, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Mechanical*)

Contact Us

Machines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/machines
machines@mdpi.com
X@Machines_MDPI