



Advances in Electrical Machines, Drives and Vehicles

Guest Editors:

Dr. Hady H. Fayek

Electromechanics Engineering
Department, Faculty of
Engineering, Heliopolis
University, Cairo 11785, Egypt

Prof. Dr. Christoph M. Hackl

Department of Electrical
Engineering and Information
Technology, Munich University of
Applied Sciences (MUAS), 80335
Munich, Germany

Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editors

The current industrial revolution requires a high level of control and efficiency in electrical machines. Additionally, the electrification of many types of equipment and machines such as vehicles requires very high power electronics capabilities. In light of the two aforementioned facts, IEEE Industrial Electronics Egypt, Guadalajara, and its joint Austria chapter are organizing a conference to study the advances in electrical machines, drives, and vehicles. In relation to the conference, we are also organizing a Special Issue targeting cutting-edge research on this topical issue.

Topics may include, but are not limited to, the following themes:

- Power management in electrical machines;
- Modern electrical drives;
- Power electronics and control in electric vehicles;
- Optimization in electric vehicles operation;
- IoT in EV applications;
- Modern control of electrical machines;
- Electrical machines and power electronics advances in renewable energy systems;
- Digital twin of complex machines and drives systems;
- Novel power electronics applications in motors operations and industry;
- Role of modern electric drives in 4th and 5th industry revolutions.





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) / CiteScore - Q2 (Control and Optimization)

Contact Us

Machines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/machines
machines@mdpi.com
[X@Machines_MDPI](https://twitter.com/Machines_MDPI)