



***machines***

an Open Access Journal by MDPI



## **New Advancements in Fault-Tolerant Motor Drives: Machine Topology, Fault Diagnosis and Data Analytics**

Guest Editors:

**Prof. Dr. Wen-Ping Cao**

**Dr. Lassi Aarniovuori**

**Dr. Bo Wang**

**Dr. Xing Qi**

Deadline for manuscript  
submissions:

**closed (31 May 2021)**

### **Message from the Guest Editors**

Over the last few years, extensive advanced fault-tolerant machine drives have been developed, such as multiple-phase machines, WBG-based converters, system integration, and fault ride through control strategies. This Special Issue aims to capture the current state-of-the-art techniques around sensors, hardware and algorithms, novel machine designs, fault mechanism analysis, multiphysics modeling, fault diagnosis, fault management, control algorithms, artificial intelligence, and post-fault control strategies. We particularly welcome the utilization of new materials (conductors, insulators, heat sinks, etc.), new models and designs, sensing techniques, and data analytical algorithms, as well as integrated design optimization and practical demonstrations in industrial applications.



[mdpi.com/si/65999](https://mdpi.com/si/65999)

# **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](http://www.mdpi.com)

[mdpi.com/journal/machines](http://mdpi.com/journal/machines)  
[machines@mdpi.com](mailto:machines@mdpi.com)  
X@Machines\_MDPI