



an Open Access Journal by MDPI

Emerging Theory and Applications in Fault Diagnosis and Motor Drive Control

Guest Editors:

Dr. Francisco Vedreño-Santos

School of Computing, Engineering and the Built Environment, Edinburgh Napier University, Edinburgh EH10 5DT, UK

Prof. Dr. Daniel Morinigo-Sotelo

HSPdigital-ITAP-ADIRE, University of Valladolid, 47002 Valladolid, Spain

Prof. Dr. Lucia Frosini

Department of Electrical, Computer and Biomedical Engineering, University of Pavia, Via Ferrata 5, 27100 Pavia, Italy

Deadline for manuscript submissions: closed (30 April 2025)



Message from the Guest Editors

Dear Colleagues,

The field of electrical machine fault diagnosis and motor drive control has witnessed unprecedented advancements in recent years, driven by the integration of emerging theories and applications. Electrical machine fault diagnosis and motor drive control play pivotal roles in ensuring the reliability, efficiency and safety of electrical machines and drives, making them indispensable components in industrial applications. This Special Issue aims to explore and showcase the latest developments in this dynamic and critical research area by exploring emerging theories and methodologies that push the boundaries of fault diagnosis and motor drive control, investigating the application of state-of-the-art technologies and new signal processing techniques to enhancing fault detection and motor drive performance and showcasing innovative control strategies that ensure the stability, efficiency, and adaptability of motor drive systems in the presence of faults.

Research areas may include (but are not limited to) the following:

- Diagnosis of three-phase and multi-phase induction machines
- Diagnosis of three-phase and multi-phase synchronous machines







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 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Contact Us

Electronics Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/electronics electronics@mdpi.com χ @electronicsMDPI