

## Special Issue

# Fault-Tolerant Electric Machine Drive Systems and Motor Control

### Message from the Guest Editors

This Special Issue will cover all aspects of fault-tolerant electric machine drive systems and motor control, with topics including, but not limited to, the following:

- Fault modeling, detection and isolation of electric machines (stator/rotor faults, demagnetization, eccentricity, broken bars, etc.);
- Fault diagnosis and tolerance strategies for power electronic converters in drive systems;
- Topology design and optimization of fault-tolerant electric machines (multiphase machines, open-end winding machines, hybrid rotor machines, etc.);
- Advanced fault-tolerant motor control algorithms (model predictive control, adaptive control, sliding mode control, etc.);
- Condition monitoring and predictive maintenance of electric machine drive systems;
- Application of artificial intelligence (AI), machine learning and big data in fault diagnosis and tolerance;
- Thermal management and reliability analysis of drive systems under faulty conditions;
- Sensorless fault-tolerant control technology for electric machines;
- Fault-tolerant drive system design for special fields.

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### Guest Editors

Prof. Dr. Zhaoyang Fu

Prof. Dr. Chao Gong

Dr. Junshuo Chen

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### Deadline for manuscript submissions

15 September 2026



## Electronics

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## About the Journal

### 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 guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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