Special Issue

Advancement of Fault Detection and Fault-Tolerant Control with Applications

Message from the Guest Editors

At present, with the development of artificial intelligence technology, big data mining, machine learning, deep learning, and other technologies, a large number of fault detection methods and applications as well as fault-tolerant control methods have been gradually proposed. However, these methods face challenges regarding their field application and reliability. This Special Issue aims to present research and analysis on fault detection and fault-tolerant control. This includes but is not limited to:

- Rotating machinery monitoring and vibration signal processing
- Measurement methods, technologies, and systems for equipment signals
- Fault-tolerant control
- Fault diagnosis based on interpretable deep learning
- Enhanced technology for equipment failure data
- Multi-sensor data fusion fault diagnosis
- Fault detection under unbalanced small sample conditions
- Field application effect analysis of equipment status detection method

Guest Editors

Prof. Dr. Nantian Huang
Prof. Dr. Zhenbing Zhao
Dr. Shu Zhang

Deadline for manuscript submissions

closed (31 August 2023)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/133261

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

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

MDPI

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.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).