

Special Issue

Advancement of Fault Detection/Diagnosis and Fault-Tolerant Control with Applications

Message from the Guest Editors

Fault Diagnosis and Fault-Tolerant Control has been the core technology which guarantees the high performance and high reliability of modern engineering systems in the presence of faults. The main purpose of this Special Issue is to provide a platform for researchers and control engineers to publish their latest novel and original contribution to the area of fault detection/diagnosis and fault-tolerant control in order to satisfy the increasing demands for system reliability as well as safety. The topics of interest include, but are not limited to:

- Fault detectability analysis
- Model-based fault detection/diagnosis method and its performance analysis
- Fault detection/diagnosis via artificial intelligent method
- Fault detection/diagnosis for aircraft/spacecraft control systems, formation and swarm systems, traffic systems, and underwater vehicles, etc.
- Fault-tolerant control via adaptive, sliding-mode, fuzzy technique
- Fault-tolerant control for uncertain system, stochastic systems, multi-agent systems, etc.

Guest Editors

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Deadline for manuscript submissions

closed (20 November 2021)



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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).