Special Issue

New Advancements of AI for Fault Detection and Identification Systems for Industrial Automation or Asset Management

Message from the Guest Editors

In recent years, there has been a significant technological shift from narrow to generative AI (GenAI), driven by large language models. This massive change and the generic technological nature of AI make it suitable for any application ranging from healthcare, agriculture, business, fashion and art, education, and the supply chain to the retail market. In this Special Issue, we invite high-quality contributions that explore the latest advancements in the design, development, and application of AI algorithms, architectures, and intelligent systems. The main areas of focus include but are not limited to the following:

- AI-based fault detection and identification algorithms.
- Machine learning for predictive maintenance in motors.
- AI-driven motor condition monitoring systems.
- Industrial asset management by using AI.
- AI-based predictive and condition monitoring systems.
- AI-based anomaly detection.
- Real-time data analysis and decision making using AI in fault diagnosis.
- Integration of AI with IoT devices for smart monitoring and supply chain optimization.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2025)

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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.

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