

Special Issue

Advances in Fault Detection and Diagnosis

Message from the Guest Editors

Topics of interest include, but are not limited to, the following: Novel FDD Methodologies: AI/ML/DL approaches, model-based techniques, signal processing, and hybrid methods. Novel Sensing Techniques for FDD: non-contact measurement, non-invasive measurement, blade tip timing, microwave sensing, and ultrasonic methods. New Signal Processing Theories and Methods for FDD: signal decomposition, compressed sensing, cyclostationary signal analysis, graph signal processing, hybrid physics-informed signal processing, undersampling signal processing, and unlimited sampling. Data-Driven Advances: handling big data, feature extraction, sensor fusion, and transfer learning. Emerging Applications: FDD for Industry 4.0, cyber-physical systems, renewable energy, autonomous systems, and complex networks. Real-World Implementation: case studies, computational efficiency, scalability, and industrial validation. Prognostics and Health Management: Integrating FDD with predictive maintenance strategies.

Guest Editors

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Deadline for manuscript submissions

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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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