Special Issue

Advanced Fault Diagnosis Using Interpretable, Multimodal and Transfer Learning Techniques

Message from the Guest Editors

This Special Issue focuses on the next generation of fault diagnosis methods that enhance interpretability, domain awareness, and adaptability across different machines and environments. We welcome studies that explore clear and explainable models, physics guided learning, multimodal fusion of vibration, acoustic emission, thermal or current signals, and transfer learning strategies that support cross domain or cross system generalisation. Research that demonstrates real world validation, industrial case studies, or real time deployment on edge devices is strongly encouraged. This Special Issue aims to bring forward contributions that combine methodological innovation with practical value for fault diagnosis in modern industrial systems.

Guest Editors

Dr. Muhammad Farooq Siddique

Department of Electrical, Electronics and Computer Engineering, University of Ulsan, Ulsan 44610, Republic of Korea

Dr. Izaz Raouf

Aerospace and Mechanical Engineering Department, Case Western Reserve University, Cleveland, OH 44106-1712, USA

Deadline for manuscript submissions

30 September 2026

01010
01010
01010

Information

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 6.5

mdpi.com/si/265008

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

mdpi.com/journal/information

MDPI

01010
01010
01010

Information

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 6.5

mdpi.com/journal/information

MDPI

About the Journal

Message from the Editor-in-Chief

The concept of *Information* is to disseminate scientific results achieved via experiments and theoretical results in depth. It is very important to enable researchers and practitioners to learn new technology and findings that enable development in the applied field.

Information is an online open access journal of information science and technology, data, knowledge and communication. It publishes reviews, regular research papers and short communications. We invite high quality work, and our review and publication processing is very efficient.

Editor-in-Chief

Prof. Dr. Willy Susilo
School of Computer Science and Software Engineering, University of Wollongong, Northfields Avenue, Wollongong, NSW 2522, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q2 (Information Systems)