

Special Issue

Advanced Fault Diagnosis and Health Monitoring Techniques for Complex Engineering Systems: 2nd Edition

Message from the Guest Editors

Over the last few decades, the field of fault diagnostics and structural health management has been experiencing rapid developments and the reliability, availability, and safety of engineering systems can be significantly improved by implementing multifaceted strategies of in situ diagnostics and prognostics. With the development of intelligence algorithms, smart sensors, and advanced data collection and modeling techniques, this challenging research area has been receiving ever-increasing attention in both fundamental research and engineering applications. This has been strongly supported by extensive applications ranging from the aerospace, automotive, transport, manufacturing, and processing industries to defense and the infrastructure industry. In view of the current state of the art and advances in this fast-growing discipline, in this Special Issue we are calling for papers related to all aspects of fault diagnostics, damage identification, and prognostics-based health management. A wide range of topics are covered, including new theories, methodologies, optimization, and applications in sensing, measurement, modeling, control, and prognostics.

Guest Editors

Prof. Dr. Yongbo Li

Dr. Teng Wang

Dr. Khandaker Noman

Prof. Dr. Bing Li

Deadline for manuscript submissions

closed (20 July 2025)



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

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