

Special Issue

Advanced Sensor Technologies for Fault Diagnosis and Condition Monitoring

Message from the Guest Editor

This Special Issue aims to investigate fault diagnosis and prognosis of industrial equipment and mechanical structures by utilising a variety of sensors, including those related to image, video, and multimodal information fusion. We welcome researchers to submit articles discussing sensor-based artificial neural network technology, multimodal data fusion, explainable AI solutions, and objects for error diagnosis and prognosis in the context of Industry 4.0, cloud computing, cyber-physical systems, and machine-to-machine interfaces and paradigms.

Keywords

multimodal data fusion
fault diagnosis
digital condition monitoring
predictive maintenance
artificial intelligence
net-zero challenges with AI

Guest Editor

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Deadline for manuscript submissions

closed (15 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.

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