

Special Issue

Sensors for Fault Detection and Condition Monitoring

Message from the Guest Editor

Industrial automation (Industry 4.0), along with recent developments in artificial intelligence, has played a significant role in the enhancement of technological advancements in modern society. Fault detection and diagnosis are essential for the elimination of production losses and safety hazards due to complex automated installations. The early detection of faults in machineries can help in reducing the wear and tear of internal components, thereby enhancing their useful lifetime and reliability. Additionally, the identification of specific fault types can assist service personnel equip for preventive maintenance. Hence, recently, fault diagnosis and detection have gained the attention of several researchers. Additionally, intelligent fault diagnosis techniques that deliver instantaneous results are the need of the hour. Fault detection and diagnostic techniques involve the consumption of high volumes of data from sensors. Several types of sensors, such as piezoelectric, temperature, pressure, force, acoustic, etc., have been adopted, along with machine learning techniques utilized to identify the health condition of machinery. For more details, please visit [here](#).

Guest Editor

Prof. Dr. Sugumaran Vaithiyathan

School of Mechanical Engineering (SMEC), Vellore Institute of Technology, Chennai 600127, India

Deadline for manuscript submissions

closed (30 March 2024)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/140051

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

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)