

Special Issue

Advances in Signal Processing and Sensing Technology for Improved Structural Health Monitoring

Message from the Guest Editors

Structural health monitoring and non-destructive evaluation are vital tools for ensuring the operational safety of our infrastructure and various industrial process. With recent advancements in machine learning and sensing technology, structural health monitoring tools are expected to become more accurate, rapid and capable of damage diagnosis than before. This Special Issue requests the submission of both review and original research articles related to the advancement of signal processing and sensing technology for improved structural health monitoring. Topics include but are not limited to the following:

- Machine learning for feature extraction, imaging, signal processing, data fusion, and rapid damage diagnostics;
- Sensing techniques such as phased array sensors, multi-sensor, etc.;
- Damage diagnosis and prognosis using non-destructive evaluation;
- Machine learning-assisted structural health monitoring;
- Inspection of complex structures;
- Damage imaging using advanced sensing techniques;
- Multi sensor data fusion.

If you want to learn more information, please contact .

Guest Editors

Dr. Rajendra Prasath Palanisamy

Dr. Alp Tugrul Findikoğlu

Dr. Oleksii Karpenko

Deadline for manuscript submissions

10 March 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/213916

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)