Special Issue

Advanced Sensing and Imaging Techniques for Structural Dynamics, Health Monitoring, and Integrity Assessment

Message from the Guest Editors

This Special Issue will showcase innovative research on advanced sensing and imaging technologies for the analysis of structural dynamics and health monitoring. By incorporating both imaging methods (e.g., visible and infrared) and novel sensor types, such as 3D-printed strain gauges and custom sensor arrays, this collection will present a comprehensive view of the latest advancements in structural monitoring, dynamic identification, and predictive maintenance. The convergence of these technologies offers new possibilities for understanding structural behavior under dynamic conditions, enhancing our ability to monitor, predict, and ensure the integrity of critical infrastructures.

Guest Editors

Dr. Lorenzo Capponi

Laboratory for Dynamics of Machines and Structures, University of Ljubljana, Ljubljana, Slovenija

Dr. Massimiliano Palmieri

Department of Engineering, University of Perugia, Via G. Duranti 93, 06125 Perugia, Italy

Deadline for manuscript submissions

31 December 2025



Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/224750

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

mdpi.com/journal/ sensors





Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



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)

