

Special Issue

Optical Fiber Sensors and Sensing Networks for Structural Health Monitoring

Message from the Guest Editors

Structural health monitoring (SHM) is a powerful tool for assessing the behavior and ensuring the performance of existing and future structures. Optical fiber sensors are emerging as a key technology in this field, offering superior performance in various applications and distinct advantages over conventional sensors as they continue to mature. This Special Issue aims to advance the development of optical fiber sensors, enhance the maturity of the sensing systems, and strengthen SHM capabilities through high-performance sensing for the prediction and detection of structural anomalies.

- structural health monitoring
- optical fiber sensors
- sensing networks
- distributed sensors
- embedded optical fiber sensors
- damage detection
- structural integrity
- smart sensing

Guest Editors

Dr. Luís Pereira

I3N and Physics Department, University of Aveiro, 3810-193 Aveiro, Portugal

Dr. Paulo Fernando da Costa Antunes

1. I3N, Department of Physics, University of Aveiro, 3810-193 Aveiro, Portugal

2. Instituto de Telecomunicações, 3810-193 Aveiro, Portugal

Deadline for manuscript submissions

closed (30 September 2025)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/236177

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
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 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)