Special Issue

Optical Fiber Sensor Technology for Structural Health Monitoring

Message from the Guest Editors

Structural health monitoring (SHM) is regarded as an extra safety measure for a variety of complex structures and anisotropic heterogeneous materials, which requires effective sensors. Fiber optic sensors (FOS) can be good candidates to apply in SHM due to their inherent unique advantages of small size, light weight, resistance to electromagnetic interference and corrosion resistance, long-term durability, and ability of multiplexing and embedding into host structures. However, the application of OFS in SHM still faces many challenges, especially for anisotropic heterogeneous materials. These challenges demand innovative research and new engineering applications of FOS technology for a wider application of FOS. This Special Issue, therefore, seeks original research and review articles on recent advances, technologies, solutions, and applications in the field of FOS technology for SHM.

- optical fiber sensor technology
- structural health monitoring
- anisotropic heterogeneous
- strain transfer
- sensing technology
- applications
- key techniques
- distributed sensing

Guest Editors

Prof. Dr. Weimin Chen

Prof. Dr. Zhi Zhou

Prof. Dr. Ying Huang

Dr. Xiaohua Lei

Deadline for manuscript submissions

closed (20 January 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/138035

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

mdpi.com/journal/sensors

MDPI

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)