

## Special Issue

# Application of Optical Fiber Sensors for Structural Health and Usage Monitoring

### Message from the Guest Editors

Optical Fiber Sensors (OFS) have already been employed in a wide variety of Structural Health Monitoring (SHM) applications due to their numerous advantages, such as small size, light weight, immunity to electromagnetic interference, durability, and large bandwidth. This Special Issue aims at collecting the latest original and most significant research efforts involving the use of OFS in SHM. Topics of potential interest include, but are not limited to:

- OFS-based SHM applications in aerospace, civil, energy, and mechanical engineering
- Development and applications of interferometric, grating-based, and distributed OFS for SHM
- Diagnostics and Prognostics based on the use of OFS data
- Machine learning strategies for OFS data processing
- Development of digital twins integrating OFS

For more information, please visit [here](#).

### Guest Editors

Dr. Raffaella Di Sante

Dr. Claudio Sbarufatti

Dr. Dimitrios Zarouchas

### Deadline for manuscript submissions

closed (25 April 2025)



## Sensors

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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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### 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.

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### 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

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