

## Special Issue

# Distributed Fibre Optic Sensing Technologies and Applications

### Message from the Guest Editors

Originating from the oil and gas industry, all variations of distributed fibre optic sensing, including acoustic sensing (FOAS), temperature sensing (DTS) and strain sensing (DSS), have made steady progress into new domains of long-range sensing applications. Optical interrogator technology, the basis for the distributed fibre optic sensing technologies, has advanced tremendously in recent years. Machine learning is widely considered a gamechanger for the detection and classification of events of interest in the complex FOAS signal. Implementation of real time processing and raw data storage is still challenging, as it must cope with the extremely high amounts of data produced by fibre optic sensing systems. This Special Issue therefore aims to collect original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of distributed fibre optic sensing. For more details, please click [here](#).

---

### Guest Editors

Dr. Martin Litzemberger

Dr. Gaetan Calbris

Dr. Bernd Drapp

---

### Deadline for manuscript submissions

25 January 2026



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/129824](https://mdpi.com/si/129824)

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