



sensors



an Open Access Journal by MDPI

Distributed Fibre Optic Sensing Technologies and Applications

Guest Editors:

Dr. Martin Litzenberger

AIT Austrian Institute of
Technology GmbH, Giefinggasse
4, Vienna, Austria

Dr. Gaetan Calbris

FEBUS Optics, 2 Avenue du
Président Pierre Angot, 64 000
Pau, France

Dr. Bernd Drapp

AP Sensing GmbH, Herrenberger
Str. 130, 71034 Böblingen,
Germany

Deadline for manuscript
submissions:

30 July 2024

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](#).



mdpi.com/si/129824

Special Issue



sensors



an Open Access Journal by MDPI

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

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.

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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)