

Special Issue

Recent Advances in Distributed Optical Fiber Acoustic Sensors and Their Applications

Message from the Guest Editors

The field of distributed optical fiber acoustic sensors (DASs) has seen a rapid expansion during the past 10 years. This expansion can be primarily linked to the sheer number of applications of these sensing systems: from leak detection along pipelines and the structural health monitoring of high-voltage subsea cables to monitoring geophysical activities such as earthquakes and landslides.

This Special Issue will focus on the current state-of-the-art DAS systems and their applications. We would like to invite researchers to contribute original papers as well as review articles showing: i) breakthroughs and innovative advancements in the performance of DAS systems in areas such as sensing range, strain sensitivity, frequency range, and spatial resolution; ii) the most recent multi-disciplinary studies on the application of DAS systems in, for instance, the detection of geophysical activities, pipeline leak detection, perimeter security, and railway network monitoring.

We are looking forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2025)



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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.

Editor-in-Chief

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