

## Special Issue

# Machine Learning and Signal Processing Based Acoustic Sensors

### Message from the Guest Editor

Acoustic detection is an important information-accessing technique and has widespread applications in a large variety of civil and military activities, including environmental noise monitoring, early warning of natural disasters, detection and tracking of unmanned aerial vehicles (UAVs), underwater detection, oil and gas pipeline leakage monitoring, wind turbine measurements, photoacoustic imaging, health monitoring, and so on. The traditional acoustic sensor is difficult to apply in harsh environments, and the maintenance cost is so high that it cannot meet the actual needs of modern engineering measurement. With the development of the acoustic sensing field, in order to improve cost-effectiveness and anti-electromagnetic interference capability, optical fiber acoustic sensing technology has been extensively studied. This Special Issue will focus on the current state-of-the-art optical fiber acoustic sensors systems and their applications.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 December 2022)



## Sensors

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*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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