

Special Issue

Distributed Optical Fiber Sensors: Applications and Technology

Message from the Guest Editors

One of the key advantages of optical fiber sensors is their ability to perform distributed measurements, where small fiber sections act as individual gauges. Once founded as a relatively simple tool for inspection of optical fiber communication lines, this is currently one of the most rapidly developing areas of photonics with applications ranging from the oil and gas industry to biomedical inspection with sub-mm spatial resolutions. The Special Issue will focus on novel applications as well as the aspects of signal processing and physical principles of distributed optical fiber sensing. The main aim is to cover the diversity of the sensing principles and applications as widely as possible. The topic of this special issue is in accordance with the scope of the *Sensors* journal, as it will focus on various aspects of one of the most promising directions of research in the sensors community—distributed optical fiber sensors. While this field is mature enough to have already drawn considerable attention from researchers around the world, it is still evolving at a rapid rate, with new principles and applications being proposed on a regular basis.

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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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