Special Issue

Recent Progress in Industrial Sensors Based on Optical Fiber Technologies

Message from the Guest Editors

The use of optical fiber for sensing predates its application in communication networks. Optical fiber sensor (OFS) technology has been under development for the past several decades, resulting in the production of a wide range of devices. Sensing applications have been solved in the industrial factory environment by exploiting the dielectric properties of the fiber in hazardous environments and electrically noisy areas. In addition, these sensors are compatible with communications systems, and have the capacity to carry out remote sensing and network sensing. The number of new or enhanced applications of sophisticated optical-fiber-based sensor systems are continuing to appear. This Special Issue aims to gather these developments. Submissions may address any optical fiber sensing technology. Novel interrogation techniques, schemes, designs, and materials remain relevant research topics. Both original research papers and review papers are welcome. For more details, please visit here.

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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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