Special Issue

Optical Fiber Sensors: Challenges, Opportunities and Future Trends

Message from the Guest Editors

Due to their high sensitivity, resistance to electromagnetic interference, corrosion resistance and ease of deployment, optical fiber sensors have been widely applied in many fields, such as civil engineering monitoring, oil and gas pipeline monitoring, power cable monitoring and fire alarms. With the increasing demand for wide dynamic ranges, fast measurement and real-time monitoring, optical fiber sensing technology faces a series of challenges and opportunities. This Special Issue addresses all types of fiber optic sensors and systems, from their fundamental science background to their application. We are inviting the submission of original papers and review papers detailing the latest advances in optical fiber sensing technology, including optic fiber gyro, novel fiber optic sensing mechanisms, fiber optic sensor system technologies, fiber optic sensor applications, etc.

Guest Editors

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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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