Special Issue

Advances in Distributed Optical Fiber Sensing Systems

Message from the Guest Editor

Distributed optical fiber sensing (DOFS) has been extensively studied and widely used in natural disaster prediction and urban infrastructure security guarding, including intrusion detection, structure health monitoring, etc., with superior advantages such as fully distributed sensing in long range, low operation cost and long service lifetime. Significant advances in the research and development of DOFS have recently been made. Therefore, for this Special Issue we invite all papers and contributions on all topics related to DOFS, such as new designs of sensing fibers or cables, instrumentation, high-fidelity demodulation technologies and advanced signal processing methods related to different types of distributed sensors. We also welcome papers presenting important application advances and challenges of DOFS at present and in the future. Topics of interest are included but not limited to:

- distributed optical fiber sensor
- novel fiber cable
- smart sensing
- demodulation
- detection
- identification
- distributed signal processing
- safety monitoring
- environment monitoring
- structural health monitoring
- smart city
- field applications

Guest Editor

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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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