

Special Issue

Optical Fiber Sensing for Marine Environment and Marine Structural Health Monitoring

Message from the Guest Editors

The ocean is an important supporting system for the human's living environment and affects the changes of the earth's environment and climate. Therefore, the monitoring technologies of the marine information are important to understand and exploit the ocean resources. To realize this objective, various sensing technologies have been investigated, including optical fiber sensing. The research of fiber optic sensing technology and its integration with the submarine fiber optic network systems is highly desirable, which could provide new core devices for submarine observation networks. Due to the advantages of the optical fiber sensing, it is a good candidate in marine information monitoring. However, many scientific and engineering problems still exist, which are under investigations in terms of novel sensing mechanisms, new sensor designs, materials, fabrication techniques, signal analysis, optical demodulation, sensing systems, field tests, applications, multidisciplinary, etc. For this Special Issue, we aim to present a collection of review and original research articles related to the development of optical fiber sensing technologies for marine information monitoring.

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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