

Optical Sensors for Structural Health Monitoring

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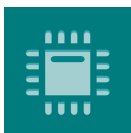
Message from the Guest Editors

This Special Issue will focus on the current state-of-the-art of optical sensors for Structural Health Monitoring (SHM), covering recent technological improvements in new devices/sensors and emerging applications. Editors intend with this SI provide an overview of the present status and a future perspective of the aforementioned topics.

The manuscripts should cover, but are not limited to, the following topics:

- Physical, chemical, and environmental optical sensors for SHM;
- Interferometric and polarimetric sensors;
- Nano- and micro-structured fiber sensors including fiber gratings and photonic crystal fibers;
- Multiplexing and sensor networking;
- Distributed sensing;
- Advances in interrogation techniques for optical sensing;
- Smart structures and sensors;
- Bragg gratings, Fabry Perot cavities, and plasmonic and Mach Zehnder interferometers;
- SHM case studies using optical technologies;
- Low-cost, miniaturized, and selective and multiparameter optical devices;
- Energy-efficient SHM integrated platforms;
- Big data analysis for SHM;
- SHM advanced signal processing techniques.





sensors



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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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