Special Issue

Optical Fiber Sensors Used for Civil Engineering

Message from the Guest Editor

Optical fiber sensors (OFs) are a relatively new technology used to measure strain, temperature, and accelerations in situ to monitor the structural performance of civil engineering structures in aerospace and mechanical engineering industries, etc. This technology acts as an extension of strain gauges and other methods used to monitor structures in all scales from scaled-down physical models to real structures. This development is relevant to the need for structural health monitoring (SHM), performance-based design, and improved and versatile methods in experimental mechanics. In this Special Issue, papers reporting on the advanced use of OFS in research and industry are welcome. Keywords:

- Bragg sensors
- Brillouin sensors
- distributed optical fiber sensors
- structural health monitoring
- BIM

Guest Editor

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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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