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Advanced Fiber-Optic Sensors in Civil Engineering

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Deadline for manuscript
submissions:

closed (30 June 2021)

Message from the Guest Editor

The rapid development of fiber-optic technologies enables the application of fiber-optic sensors in different areas, such as a monitoring of building objects, bridge and tunnel constructions, or specific areas like vibrations and noises generated by rail transport on the surface and underground of the urban infrastructure. In all these areas, as well as others within the SMART Cities concept, fiber-optic sensors offer great potential to supply or replace the current conventional measuring devices. This Special Issue aims to present novel and innovative applications of fiber-optic sensors in civil engineering, urban infrastructure, and urbanism. Topic includes but not limited to:

- Fiber-optic sensors in civil engineering
- Fiber-optic sensors in road and rail traffic in conception SMART Cities
- Intelligent fiber-optic sensor systems for Industry 4.0 and SMART Cities
- Fiber-optic sensors in seismicity of drilling and blasting operations
- Fiber-optic sensors in all fields of geotechnical engineering generating vibrations
- Temperature measurement based on fiber-optical methods
- New concepts for photonic sensing in civil engineering
- Structural health monitoring



mdpi.com/si/35967

Special Issue



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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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