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Optical Fiber Sensors Used for Civil Engineering

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Deadline for manuscript submissions:

closed (25 May 2025)

Message from the Guest Editor

Dear Colleagues,

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

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Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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