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Optical Fiber Sensor Technology for Structural Health Monitoring

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Deadline for manuscript submissions:
closed (20 January 2024)

Message from the Guest Editors

Structural health monitoring (SHM) is regarded as an extra safety measure for a variety of complex structures and anisotropic heterogeneous materials, which requires effective sensors. Fiber optic sensors (FOS) can be good candidates to apply in SHM due to their inherent unique advantages of small size, light weight, resistance to electromagnetic interference and corrosion resistance, long-term durability, and ability of multiplexing and embedding into host structures. However, the application of OFS in SHM still faces many challenges, especially for anisotropic heterogeneous materials. These challenges demand innovative research and new engineering applications of FOS technology for a wider application of FOS. This Special Issue, therefore, seeks original research and review articles on recent advances, technologies, solutions, and applications in the field of FOS technology for SHM.

- optical fiber sensor technology
- structural health monitoring
- anisotropic heterogeneous
- strain transfer
- sensing technology
- applications
- key techniques
- distributed sensing

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Message from the Editor-in-Chief

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