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Health Monitoring with Optical Fiber Sensors

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Message from the Guest Editors

The monitoring and identification of potential structural damage and its evolution require the development of advanced structural sensing networks and monitoring techniques. Within the detection technologies, optical fiber sensors (OFS) present advantages over several other technologies. Recent advances in the field of optoelectronics have increased and highlighted the importance of OFS in relation to electrical devices. These have valuable features such as immunity to electromagnetic interference, high sensitivity and resolution, multiplexing capabilities, absence of electrical power in the measurement area, reduced size and mass, resistance to extreme environments (chemicals), and minimal aesthetic invasion (important for historic structures open to the public).

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Message from the Editor-in-Chief

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