



Optical Fiber Physical and Mechanical Sensors

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Message from the Guest Editors

Dear Colleagues,

Optical fiber sensors (OFSs) have been widely and successfully used in an expansive range of sensing applications, such as structural health monitoring, downhole monitoring, chemical and biological sensing, environmental monitoring, etc., for the past four decades. We are pleased to invite you to contribute to this Special Issue, “Optical Fiber Physical and Mechanical Sensors”, which is dedicated to covering a unique aspect of optical fiber sensing techniques and systems developed for measuring physical and mechanical quantities.

The contributions can address a broad range of physical and mechanical sensors based on fiber optic principles, including, but not limited to, any of the following topics:

- Physical and mechanical sensors.
- Pointwise interferometric sensors.
- Fiber Bragg grating and long-period grating sensors.
- Multiplexed and distributed sensing techniques and systems.
- Environmental, defense, and industrial applications of optical fiber sensors.
- New structures, effects, and materials for optical fiber sensing.
- New signal processing techniques for optical fiber sensors.

