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Distributed Optical Fiber Sensing

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Message from the Guest Editors

Distributed optical fiber sensors are receiving an everincreasing interest as they offer the unique and unparalleled ability of mapping diverse physical fields along the area span by an optical fiber. Up to a million of sensing points can be interrogated with a single distributed optical fiber sensor, covering distances than can range from some tens of meters to a few hundreds of kilometers, with a spatial resolution of meters down to millimeters.

This Special Issue aims at collecting both original and review papers on all aspects of distributed optical fiber sensing research, including (but not limited to) Rayleigh, Brillouin and Raman scattering theoretical aspects (e.g. inverse scattering problems, polarization issues, noise modelling, nonlinear effects), novel interrogation schemes (e.g. time, frequency- and correlation-domain interrogation methods, etc.), laboratory and field applications (smalland large-scale experiments), signal processing in distributed optical fiber sensors, specialty fibers, coatings and cables for distributed sensing, etc.









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Editor-in-Chief

Message from the Editor-in-Chief

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