Special Issue

Distributed Optical Fiber Sensors

Message from the Guest Editor

Distributed optical fiber sensors are a unique class of optical sensors, in which a position-resolved, quantitative physical measurement can be done along the entire length of an optical fiber cable. These systems can continuously measure thousands (or millions) of sensing points in a single optical fiber, making them especially suitable for the monitoring of large infrastructures. This Special Issue will focus on all aspects of research and development related to these sensors. The scope covers all topics associated with distributed and quasi-distributed optical fiber sensing, addressing subjects, such as Brillouin, Rayleigh and Raman scattering, interrogation schemes in distributed sensing, polarization issues, signal-to-noise ratio enhancement techniques, data post-processing in distributed sensors, sensing cable design and manufacture, specialty fibers for distributed sensing, applications of distributed sensing, etc.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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