Special Issue

Distributed Acoustic Sensing and Sensors

Message from the Guest Editors

Distributed acoustic sensing (DAS) systems consist of a fiber-optic cable and an interrogator unit (IU), turning the cable into a dense array of broadband vibration sensors. DAS technology has rapidly developed over the last decade. This development enables a vast range of applications, which positively affect the rate of technological advancement. Emerging DAS technologies demand “outside-the-box” hardware and software developments and a deeper understanding of the nature and specifics of the DAS measurements. As an example, IUs with sub-meter spatial resolution, specially designed fibers, and fiber cables in conjunction with advanced algorithms might enable the nine-component extraction of the strain tensor. Another example is the combination of low-frequency DAS data with other Rayleigh, Raman, and Brillouin scattering-based distributed measurements that open new frontiers for multi-physics solutions. For detailed information, please visit here.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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