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Distributed Acoustic Sensing and Sensors

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

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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Dr. Aleksei Titov
Guest Editors

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Message from the Editor-in-Chief

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