Special Issue

Advanced Distributed Optical Fiber Sensing Techniques

Message from the Guest Editor

The field of distributed optical fiber sensing has seen remarkable advancements in recent years, with significant implications across various industries, such as civil engineering, environmental monitoring, and healthcare. This Special Issue, "Advanced Distributed Optical Fiber Sensing Techniques", aims to provide a platform for researchers and practitioners to share the latest developments, innovations, and applications in this dynamic field. This Special Issue is designed to align with the scope of the journal by focusing on the cutting-edge research and reviews that advance the understanding and application of distributed optical fiber sensing techniques. We welcome original research articles and reviews that address the following themes, among others:

- Novel sensing mechanisms and methodologies in distributed optical fiber sensing;
- Advanced signal processing techniques for enhanced data analysis;
- Integration of distributed optical fiber sensors with IoT and smart systems;
- Applications in structural health monitoring, environmental sensing, and biomedical diagnostics;
- Innovations in sensor fabrication, materials, and deployment strategies.

Guest Editor

Dr. Bin Du

Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education and Guangdong Province, College of Physics and Optoelectronic Engineering, Shenzhen University, Shenzhen 518060, China

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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