

Special Issue

Optical Sensing Technologies, Devices and Their Data Applications

Message from the Guest Editors

This Special Issue on “Fiber Optic Sensing and Its Applications” welcomes contributions that address innovative aspects such as the design and deployment of advanced fiber optic sensors, the application of fiber sensing in non-destructive and ultrasonic detection, and enhancements in optical atmospheric remote sensing. Specific topics of interest include, but are not limited to, the following: 1) Development and validation of novel fiber optic sensors and sensing methodologies, especially those incorporating Lidar and other optical sensing technologies; 2) Applications of fiber optic sensing; 3) Integration of fiber optic sensors with other technologies; 4) Advancements in data processing, including machine learning and big data analysis; 5) Fiber optic sensing with AI applications, including boosting sensing performance with AI models, addressing AI security issues that introduced by fiber optic techniques, and other real-world applications that combine AI with fiber optic sensing technologies. 6) Exploration of microfluidics and optofluidic, and their applications in chemical, biological, and pharmaceutical industries.

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Deadline for manuscript submissions

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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.

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