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\(\text{Applications of fiber optic} \) sensing; 3) Integration of fiber optic sensors with other technologies; 4\(\text{Advancements in data processing.}\) including machine learning and big data analysis; 5⊠Fiber optic sensing with Al applications, including boosting sensing performance with Al 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\(\mathbb{E}\)xploration of microfluidics and optofluidic, and their applications in chemical, biological, and pharmaceutical industries.

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Deadline for manuscript submissions

31 December 2024



Photonics

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Message from the Editor-in-Chief

Editor-in-Chief

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