Special Issue

Optical Fiber Interferometric Sensors: New Production Methodologies and Novel Applications

Message from the Guest Editors

Optical fiber interferometric sensors have been widely investigated for potential application in many situations, such as, for example, monitoring temperature, strain, pressure, and most recently, in the detection and characterization of different physical, chemical, and also physiological parameters.This Special Issue will focus on current state-of-the-art research in optical fiber interferometric sensors, covering recent technological improvements, new production methodologies, and emerging applications. The manuscripts should cover, but are not limited to, the following topics:

- New and/or low-cost interferometers production methods
- Novel optical fibers and Fabry-Perot, Mach-Zehnder, Michelson, and Sagnac-based sensors
- Optical fiber interferometric based sensing for physical and chemical parameters
- Optical fiber interferometric systems with microfluid integration
- Low-cost, miniaturized, selective and multiparameter optical fiber interferometric devices
- New bio/chemical probes for biomedical applications
- Wearable/biomedical interferometric sensors
- Advanced signal processing techniques
- New interrogation techniques for interferometric sensors

Guest Editors

Prof. Dr. Paulo André

Dr. Nélia J. Alberto

Dr. Maria de Fátima Domingues

Deadline for manuscript submissions

closed (31 May 2021)

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

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About the Journal

Message from the Editor-in-Chief

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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indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

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JCR - Q2 (Optics)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).