



Optical Fiber Interferometric Sensors II: New Production Methodologies and Novel Applications

Guest Editors:

Dr. Maria de Fátima Domingues

Dr. Nélia J. Alberto

Prof. Dr. Paulo André

Dr. Daniele Tosi

Deadline for manuscript
submissions:
closed (15 August 2023)

Message from the Guest Editors

This Special Issue will focus on the current state of the art of 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 interferometer production methods;
Optical fiber Fabry–Perot-, Mach–Zehnder-, Michelson-, and Sagnac-based sensors;
Optical fiber interferometric-based sensing of physiological parameters;
New interferometric probes for biomedical applications;
Optical fiber interferometric systems with microfluid integration;
Wearable biomedical interferometric sensors;
Biomarker detection;
Low-cost, miniaturized, selective, and multiparameter optical fiber interferometric devices;
Advanced signal-processing techniques;
New interrogation techniques for interferometric sensors.

The SI also welcomes submissions reporting on interferometric sensor applications covering several biomedical areas such as dentistry, surgery, robotics, medical diagnostics and therapy, cardiovascular and chronic diseases, among others.

