

## Special Issue

# Development and Validation of Biophotonic Sensors towards Research, Industrial and Clinical Applications

### Message from the Guest Editor

This Special Issue focuses on the development and validation of novel biophotonic sensors for their targeted applications, and advances in optical techniques for next-generation devices. Contributions are invited for this Special Issue from researchers working on hardware and software development of biophotonic sensors. Topics of interest include, but are not limited to, the following:

- Validation of existing sources, light-shaping devices, detectors and data processing approaches for novel applications.
- Optimization of novel or existing software for real-time, high accuracy and/or high-throughput sample analysis.
- Investigation of new biomarkers, imaging and spectroscopy features and applications.
- Development and performance of new detectors.
- Development and performance of new sources and light-shaping devices.
- Development and performance of novel 2D or 3D imaging sensing systems.
- Development and performance of lab-on-a-chip devices.
- Development and performance of novel computational imaging approaches, including compressive sensing and machine/deep learning techniques.

### Guest Editor

Dr. Marcelo Saito Nogueira

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### Deadline for manuscript submissions

closed (31 January 2024)



## Sensors

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## About the Journal

### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

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