Special Issue

Advances in Light- and Sound-Based Techniques in Biomedicine

Message from the Guest Editors

Advances in optical and ultrasound-based techniques have resulted in the emergence of innovative and transformative tools that can be used to probe biomedical and biological systems at the subcellular, cellular, tissue, and organ levels. Due to their unique potential to provide low-cost, safe, and portable medical devices with extremely high sensitivity and specificity, optical and ultrasound techniques are expected to play a prominent role in next-generation diagnostic, analytical, and therapeutic modalities. This Special Issue encompasses a broad range of techniques, mainly focused on recent advances in instrumentation, multi-modal configurations, theranostic combinations, contrast agents, and new instrumentation schemes. Topics include, but are not limited to:

- Optical Imaging and Spectroscopy
- Ultrasound Imaging
- Acousto-optic Imaging
- Photoacoustic Imaging
- Microscopy, Mesoscopy, Endoscopy
- Affordable and portable light sources (laser diodes, LED) and light delivery methods
- Data Processing and Novel algorithms
- Optical and Ultrasound Therapy
- Fluorescence, Raman, Photoacoustics, Optical Coherence Tomography (OCT), Hyperspectral Imaging

Guest Editors

Dr. James Joseph

Dr. Jason Raymond

Dr. Jithin Jose

Deadline for manuscript submissions

closed (10 April 2023)

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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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