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Optical Sensing and Imaging Technologies for Biomedical Applications

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Message from the Guest Editors

Biomedical sensors that employ optical radiation possess several characteristics that make them suitable for a variety of biomedical applications. Optical sensing and imaging techniques have been applied for the characterization of or diagnostics in biological tissues and even treatment monitoring. Consequently, many optical techniques have rapidly evolved and become increasingly relevant in clinics. This Special Issue is focused on optical sensing and imaging technologies applied to biological media, including diagnostic and treatment monitoring techniques. We seek contributions on techniques that can involve either imaging approaches or point measurements, exploiting superficial or tomographic data, coming from intensity, spectroscopic, polarimetric, interferometric, or fluorescence parameters, among others.

- optical biomedical sensors
- tomographic optical imaging
- optical coherence tomography
- spectroscopic optical sensing
- fluorescence biosensing
- polarimetric biosensing and imaging
- interferometric biosensing and imaging
- optical treatment monitorization



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Special Issue



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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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