

Special Issue

Biomedical Sensing Applications of Diffuse Optics

Message from the Guest Editors

Diffuse optics allows in vivo investigation of different aspects of biological tissues such as composition, oxygenation, and indirectly estimated blood flow. This Special Issue focuses on the applications of diffuse optics on living animals or human, both healthy subjects and pathological groups. Established and novel applications are considered. All the contributions where some aspects of those applications are shown are welcomed. Furthermore, theoretical models, data processing, analysis, and interpretation methodologies or tissue-like phantom acquisitions, which help toward a better understanding of the technique and its applications, are eligible. Additionally, the combinations of techniques based on diffuse optics (NIRS, fNIRS, spectroscopy, DCS) with other conventional optical or non-optical biomedical techniques (electrophysiology, MRI, PET, others) are of interest.

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