



Biomedical Sensing Applications of Diffuse Optics

Guest Editors:

Dr. Rebecca Re

1. Politecnico di Milano,
Dipartimento di Fisica, Piazza
Leonardo da Vinci 32, 20133
Milano, Italy

2. Istituto di Fotonica e
Nanotecnologie (IFN), Consiglio
Nazionale delle Ricerche (CNR),
Piazza Leonardo da Vinci 32,
20133 Milano, Italy

Dr. Felipe Orihuela-Espina

Instituto Nacional de Astrofísica,
Óptica y Electrónica (INAOE), Sta.
María Tonantzintla, Puebla,
Mexico

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.

Deadline for manuscript
submissions:

closed (30 September 2021)





sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)