Special Issue

Near Infrared Spectroscopy in Medical Diagnosis

Message from the Guest Editor

Near infrared spectroscopy (NIRS) is an optical technique allowing to investigate the optical properties of biological tissues. Thanks to its non-invasiveness, its capabilities to penetrate the biological tissues in depth (some centimeters), and technological progresses in optical components, allowing the realization of more and more compact and cheap systems, NIRS is more and more applied in the clinical environment, also in the imaging version. Typically, the main aim of these studies is to characterize a healthy condition, in order to find fingerprints that could identify and distinguish it from a pathological one, allowing in this way the diagnosis of some disease.

This Special Issue of the journal Applied Sciences is dedicated to reporting recent advances in the exploitation of NIRS, regardless of the approach (CW, FD, TD), as a diagnostic tool in medical applications. To this respect, of great relevance is the problem of performance standardization for clinically-oriented NIRS systems. Contributions on this issue are also welcome.

Guest Editor

Dr. Lorenzo Spinelli

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

Deadline for manuscript submissions

closed (15 April 2021)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/32991

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)