Special Issue

Diffuse Optical Spectroscopy: Advances Towards Widespread Applications

Message from the Guest Editor

Diffuse optical spectroscopy (DOS) using red and near-infrared light is increasingly considered a powerful tool to noninvasively probe highly scattering media down to a depth of few centimeters. In particular, advancements are expected in three major fields, overcoming key bottlenecks: (1) novel tools to master the complexity of the physics and the physiology (missing knowledge of the absorption spectra of basic constituents, nontrivial modeling of heterogeneities, strong interplay between measurables and measurement conditions, sensors motion and probe contact artifacts, etc.); (2) impressive progress in technology; and (3) enforcement of performance assessment and standardization to ground new developments and realizations on a solid basis. Therefore, further research efforts are needed to bring the technique to widespread use in multiple applications. You are cordially invited to submit original manuscripts to this special issue. The article may be either original researches or reviews. There is no restriction on its length.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/21942

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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.

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