Special Issue

Optical Coherence Tomography for Medical Diagnostics

Message from the Guest Editor

Since its invention about 30 years ago, optical coherence tomography (OCT) has emerged as a powerful imaging modality. The technology revolutionized the field of ophthalmology, where OCT plays a critical role in the diagnosis and management of various retinal disorders. Although not as popular, OCT also adapted to dermatology, endoscopy, dentistry, and many other disciplines. OCT became functional and multimodal in the quest to explain the pathology and physiology of several diseases and to search for new and strong biomarkers. Recently, the active development of machine and deep learning techniques has strongly supported and strengthened OCT's capability for medical diagnostics. In this Special Issue, we aim to highlight this recent progress in medical diagnostics involving OCT in any discipline, with a focus on (but not limited to) machine/deep learning assisted data analysis, image enhancement, image segmentation, and/or the use of multimodal OCT to better our understanding of disease physiology and pathology.

Guest Editor

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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.

Editor-in-Chief

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