Special Issue

Recent Advances in Intelligent Optical Coherence Tomography (OCT) Device, Techniques and Sensors

Message from the Guest Editors

Optical coherence tomography (OCT) technology is rooted in the principle of weak coherent light interference, enabling innovative acquisition of images of sample planes or volumetric structures. OCT's applications range from biomedicine to the manufacturing, agriculture, and food sectors. With the rapid development of artificial intelligence (AI) technology, intelligent devices are being empowered by AI to achieve information perception, logical reasoning, and decision making. In recent years, researchers have actively explored the intelligence of OCT devices, resulting in numerous application branches. Intelligent OCT devices are rapidly evolving towards precision, miniaturization, speed, and multi-modal integration. This Special Issue focuses on research into the intelligence of OCT equipment, encompassing software, hardware, intelligent algorithms, and the application of intelligent OCT in fields such as medicine, industry, and art. For more information, please visit: mdpi.com/si/592LRV6YI8

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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.

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