

Special Issue

Advances in Optical Coherence Tomography in 2025

Message from the Guest Editor

Optical coherence tomography (OCT) is an imaging technique that utilizes low-coherence light to capture structural images of biological tissue at a high resolution at the micrometer scale. OCT has had a significant impact on the diagnosis and management of diseases in many fields of medicine. Since the first demonstration of Doppler optical coherence tomography (OCT) in 1997, several functional extensions of OCT have been developed, including velocimetry, angiogram, and optical coherence elastography (OCE). These functional techniques have been widely used in research and clinical applications, such as ophthalmology and dermatology. This Special Issue focuses on the challenges of and recent advances in functional OCT in disease diagnosis and clinical translation. Contributions may address, but are not limited to, the following topics: artificial intelligence in functional OCT, advancements in endoscopic functional OCT, functional OCT-guided therapy, and OCT-based multimodal imaging.

Guest Editor

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