

Special Issue

Optical Coherence Tomography in Ophthalmology: Advanced Diagnostics and Intraoperative Applications

Message from the Guest Editor

Optical coherence tomography (OCT) is a non-invasive optical imaging technology that has significantly advanced ophthalmic diagnostics and surgical assessment since its introduction in the early 1990s. This technology provides high-resolution cross-sectional images of ocular structures, enabling detailed visualization of the retina, choroid, and anterior segment. OCT has become an essential tool for diagnosing and managing a variety of retinal and choroidal diseases, including macular edema, age-related macular degeneration, and glaucoma. Advancements in OCT, such as spectral-domain OCT (SD-OCT), swept-source OCT (SS-OCT), OCT angiography (OCTA), adaptive optics OCT (AO-OCT), visible light OCT (VL-OCT), and intraoperative OCT (iOCT), have further enhanced its clinical utility. Furthermore, the development of iOCT systems, including handheld and microscope-mounted devices, has begun to revolutionize surgical guidance by providing real-time, depth-resolved imaging during ophthalmic procedures. This Special Issue will explore the latest innovations in OCT technology and its expanding applications in both advanced ophthalmic diagnosis and precise intraoperative assessment.

Guest Editor

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