

Special Issue

Advanced Sensing Technology in Optical Coherence Tomography

Message from the Guest Editor

Optical coherence tomography (OCT) performs high-resolution, cross-sectional, and three-dimensional volumetric imaging of the internal microstructure in biological tissues by measuring echoes of backscattered light. In addition to structural imaging, OCT can assess birefringence (e.g., polarization-sensitive OCT), microflow (Doppler OCT), tensile properties (OCT elastography), and tissue chemistry (OCT spectroscopy). OCT has demonstrated great potential in many clinical applications, particularly in cardiology, arthritis, and ophthalmology. This Special Issue, therefore, aims to put together original research and review articles on the recent advances, technologies, solutions, applications, and new challenges in the field of OCT. Potential topics include but are not limited to:

- Optical coherence tomography;
- Polarization-sensitive OCT;
- Doppler OCT;
- OCT elastography;
- Catheter-based OCT;
- Clinical applications based on OCT.

Guest Editor

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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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