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International Journal of Biomedical Imaging

Special Issue on

**Recent Advances in Optical Coherence Tomography
Technology and Applications**

CALL FOR PAPERS

Optical coherence tomography (OCT) is an emerging noninvasive imaging method that uses infrared light and low coherence interferometric techniques to enable depth-resolved high resolution imaging of highly scattering tissue specimens. The method has become increasingly popular in the last decade for a wide range of fundamental and clinical applications including ophthalmology, dermatology, and intravascular imaging. Over the last several years, OCT becomes one of the most innovative and rapidly emerging optical imaging modalities, which is capable of noninvasively exploiting the wealth of morphological and functional tissue information in living tissues and performing repeated imaging to elucidate dynamics, progression, and treatment response. Furthermore, a wide range of extensions of OCT have been developed that enable noninvasive depth-resolved functional imaging, providing spectroscopic, polarization-sensitive, blood flow, or physiological tissue information. These functional extensions of OCT not only enhance image contrast but also promise to enable improved differentiation of pathologies via localized metabolic properties or functional (physiological) states.

This special issue seeks contributions from authors who are engaged in the development and advancement of OCT technology, new instrumentation, and techniques and their applications in biomedical science and clinical practice.

Potential topics include, but are not limited to:

- ▶ Ophthalmology
- ▶ Dermatology
- ▶ Preclinical applications
- ▶ Hearing research
- ▶ Endoscopic imaging
- ▶ Tissue engineering
- ▶ Cardiovascular imaging
- ▶ Nondestructive testing
- ▶ Functional, Doppler, polarization, elastography, and phase sensitive imaging
- ▶ Angiographic mapping and flow quantification

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