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High-Performance Optical Coherence Tomography

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editors

Optical coherence tomography (OCT) is a representative case of the successful commercialization of an optical technique.

This Special Issue aims to bring together researchers working on all aspects of high-performance next-generation OCT, both systems and technological developments, from basic research to in-orbit results. Novel OCT system development and special applications in medical and industrial areas are welcome.

Research areas may include (but are not limited to) the following:

Research works on high-performance OCT system like SSOCT, FFOCT, OCTA, Dynamic OCT, Doppler OCT, etc., including optimization methods for the imaging system, algorithm optimization for improving the resolution, imaging range, and special applications in medical diagnostics, industrial inspection, and model construction.

Research works on novel techniques for generating swept lasers, including Fourier domain mode locked laser, time-stretched swept laser, swept laser based on frequency shift, dispersion tuning swept laser, short cavity swept laser based on MEMS;

We look forward to receiving your contributions.