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Advanced Techniques in Biomedical Optical Imaging

Guest Editors:

Dr. Haigang Ma
Associate Professor, School of Electronic and Optical Engineering, Nanjing University of Science and Technology, Nanjing 210094, China

Dr. Yujiao Shi
Associate Professor, College of Biophotonics, Institute of Life Science, South China Normal University, Guangzhou, China

Dr. Yue Zhao
Associate Professor, School of Physics and Optoelectronic Engineering, Shandong University of Technology, Zibo 255049, China

Deadline for manuscript submissions:
closed (30 October 2023)

Message from the Guest Editors

Biomedical optical imaging is a rapidly developing field with numerous exciting applications in clinical diagnosis and biological research. Important new advancements of optical imaging equipment and technology can contribute to key breakthroughs and discoveries in disease diagnosis and biological exploration, such as photoacoustic imaging, optical coherence tomography, diffuse optical tomography, fluorescence spectroscopy, Raman spectroscopy, confocal and multiphoton microscopy, super-resolution microscopy, and many others.

This Special Issue invites manuscripts that introduce recent advances in “Advanced Techniques in Biomedical Optical Imaging”. All theoretical, numerical, and experimental papers are accepted for submission. Original research papers and review articles are both welcome. Topics include, but are not limited to, the following:

- Optical microscopy;
- Photoacoustic imaging and spectroscopy;
- Optical coherent tomography;
- Diffuse optical tomography;
- Spectroscopic and imaging techniques;
- Multimodality and multiscale approaches;
- Machine learning and image processing;
- Basic research and translational research.

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