

Special Issue

Ultrasonic and Photonic Technologies for Biomedical Imaging and Elastography

Message from the Guest Editors

The goal of this Special Issue is to explore recent research findings and technical developments in biomedical optics and ultrasonics, and their elastography function. Many technologies and instrumentations have been successfully translated into biomedical applications ranging from clinical diagnosis to molecular biology. Herein are the many challenges and opportunities for collaborative research and development. Several recent breakthroughs, development trends, and potential uses in conjunction with other techniques are also welcome. Biomedical optics and ultrasonics-based imaging technologies impact a very wide and disparate range of clinical specialties (ophthalmology, endoscopy, dermatology, infectious diseases, surgery, etc.). Potential topics include, but are not limited to, novel methods and instrument designs, in vivo imaging and measurement technology of the human detection and characterization of diseases, and molecular imaging.

- ultrasound imaging
- elastography
- multimodal imaging
- machine learning and image processing
- microscopy
- tissue optics and spectroscopy
- focused ultrasound
- photoacoustic imaging and spectroscopy
- clinical ultrasound

Guest Editors

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Deadline for manuscript submissions

closed (20 June 2024)



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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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