Special Issue

Novel Biomedical Imaging Techniques Based on Ultrasound and Laser: Progress and Applications

Message from the Guest Editors

Integration of light and ultrasound has produced new innovations in biomedical imaging that combine the molecular specificity of light with deep-tissue penetration of ultrasound. Advancements in light sources, acoustic transducer materials and arrangements, non-contact sensing, specialized electronics for large channel counts, machine learning, and novel contrast agents have led to an explosion of research that explores the versatility of these hybrid imaging techniques to enable multi-modal and multi-scale functional and anatomical imaging to address a variety of biomedical imaging challenges. This Special Issue aims at presenting original research that describes the current state of the art in imaging technologies at the intersection of light and sound. Studies that describe the translational potential of these imaging techniques are particularly welcome.

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Editor-in-Chief

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