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Novel Deep Learning Approaches for Photoacoustic Imaging and Sensing

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Deadline for manuscript submissions:

closed (30 June 2023)

Message from the Guest Editors

Photoacoustic imaging (PAI) is an emerging imaging modality availing the benefits of optical contrast and acoustic depth of penetration. PAI is very promising for a range of biomedical applications.

The growth of the PAI community is steady. In the past decade, we have witnessed continued developments in key components, reconstruction algorithms, quantification accuracy, novel contrast agents, and clinical applications of PAI. One of the most exciting research areas is combining deep learning (DL) and PAI for improved image quality, higher quantification accuracy, faster speed, and reduced system cost. By leveraging the ever-increasing computing power and image data, DL helps to bridge the gap between laboratory demos and real-world applications and promises to accelerate PAI's commercialization. It is anticipated that PAI will one day establish itself as a regular imaging system in clinical practices. This Special Issue aims to provide a comprehensive collection of the latest advances in exploiting DL for better PAI performance.



mdpi.com/si/132330

Special Issue



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Message from the Editor-in-Chief

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