Special Issue

Artificial Intelligence for Medical Imaging and Applications

Message from the Guest Editors

Advanced medical imaging and computational technologies have revolutionized medical procedures and patient care. Artificial intelligence (AI), particularly deep learning and foundation models, has rapidly developed and could transform the medical field in understanding and analyzing complex medical images and videos. It may improve disease diagnoses and clinical procedures, offering high-quality training and care.

However, realizing AI's benefits is hindered by challenges, including data scarcity and the lack of attention to the unique characteristics of medical images and videos. Different imaging sequences, contrast phases, modalities, text descriptions, and metadata provide rich synergistic information. Research should also address ethical concerns and validation through real-world applications. AI-assisted imaging can monitor therapeutic efficacy over time.

This Special Issue seeks original works, transformative projects, surveys, and real-world applications advancing AI in medical imaging.

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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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