Journal of Imaging

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Imaging Informatics: Computer-Aided Diagnosis

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Message from the Guest Editors

Imaging informatics is studying how information about and contained within biomedical images is retrieved, analyzed, enhanced, and exchanged to improve the biomedical imaging. Benefiting from the availability of them and the dramatic resurgence of AI, CAD, one of the major applications has been transformed and become more competent in supporting clinical decision making. Despite this progress, numerous challenges remain. For instance, compared with “enormous” photographic images in computer vision, the availability of the datasets is limited due to the need for expert annotation, privacy, and to follow regulatory requirements. Second, comprehensive clinical decision making requires not only images, but also free-form text, genomic, clinical data, and additional information still. It is challenging to integrate knowledge which are extracted from different modalities and incorporate prior human domain knowledge. Lastly, most AI models are still considered black boxes. These are difficult to interpret and explain, and it is a challenge to learn from new data continually without forgetting prior knowledge, a problem which has largely hindered their clinical usage.

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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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