Journal of Imaging

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Deep Learning and Data Analytics Techniques for Processing of Biomedical Images

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Deadline for manuscript submissions:
closed (1 August 2023)

Message from the Guest Editors

Deep learning has recently revolutionized medical image computing methods by automating the discovery of features and producing superior results. Recent developments in deep learning have heightened the importance of biomedical signal and image processing research. In order to provide clinicians with useful information, biomedical signal processing requires the analysis of measurements taken at specific points in time and recorded in a patient's chart. Biomedical image processing is conceptually similar to biomedical signal processing in multiple dimensions. Using X-ray, ultrasound, MRI, nuclear medicine, and visual imaging technologies, it involves image analysis, enhancement, and presentation.

In response, this Special Issue solicits original and novel methodological contributions addressing key challenges in the explainability and generalizability of deep learning for medical imaging. Submissions should emphasize research and advanced development of technical aspects of new image analysis methodologies, and all newly developed methods should be evaluated or validated using real and massive medical imaging data.

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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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