Special Issue

Deep Learning in Medical Image Analysis, Volume II

Message from the Guest Editors

Over the past few years, deep learning has established itself as a powerful tool across a broad spectrum of domains in imaging, e.g., classification, prediction, detection, segmentation, diagnosis, interpretation, and reconstruction. While deep neural networks initially found nurture in the computer vision community, they have quickly spread over medical imaging applications. The accelerating power of deep learning in diagnosing diseases will empower physicians and speed up decision making in clinical environments. Applications of modern medical instruments and digitalization of medical care have generated enormous amounts of medical images in recent years. In this big data arena, new deep learning methods and computational models for efficient data processing, analysis, and modeling of the generated data are crucially important for clinical applications and in understanding the underlying biological process. The purpose of this Special Issue on "**Deep Learning in Medical Image Analysis, Volume II**" is to present and highlight novel algorithms, architectures, techniques, and applications of deep learning for medical image analysis.

Guest Editors

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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.

Editor-in-Chief

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