Special Issue

Artificial Intelligence in Magnetic Resonance Imaging(MRI)

Message from the Guest Editor

Due to the intrinsic nature of medical imaging data, AI is intensively employed in this field in recent years, and it is becoming increasingly prevalent especially in Magnetic Resonance Imaging (MRI) since the large quantitative nature of MRI data can be efficiently reconstructed and transformed into mineable qualitative clinical information using AI. These ML approaches can be utilized for registration, segmentation, and classification of medical images aiding in detection and prediction, in image optimization with faster imaging procedures with augmented workflows and reduction of artifacts, as well as in the combination of genomics and radiogenomics pushing the boundaries of conventional imaging thus revolutionizing MRI. Hence, the goal of this special issue is to address the above-previously mentioned opportunities and challenges and to present a comprehensive overview of the latest AI advances, compiling an update of the state-of-the-art efforts in MR Imaging acquisition, processing, and clinical applications.

Guest Editor

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