Special Issue

Innovative Computer Vision Solutions for Medical Image Analysis

Message from the Guest Editor

Medical image analysis encompasses a range of computational methodologies that leverage AI-driven computer vision techniques to extract clinically meaningful information from diagnostic images, functioning as a decision-support tool throughout the entire healthcare continuum. However, the exponential growth of multimodal imaging data—from high-resolution scans (e.g., CT and MRI) to dynamic sequences (e.g., ultrasonic imaging), and functional imaging (e.g., positron emission tomography)—presents unprecedented computational and analytical challenges for both researchers and clinicians. Thus, data processing, analysis, and interpretation represent some of the most critical yet formidable challenges in medical image analysis. This Special Issue aims to enhance the generalizability and interpretability of AI-assisted diagnostic systems by developing novel computer vision algorithms tailored to multimodal medical imaging.

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