Computer Vision Algorithms for Biomedical Image Processing

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Deadline for manuscript submissions:
closed (15 April 2024)

Message from the Guest Editors

Computer vision is a branch of artificial intelligence and computer science that enables computers to acquire a high level of comprehension from digital images or recordings, analogous to how humans perceive and interpret visual information.

This Special Issue focuses on computer vision algorithms for biomedical image analysis, encompassing the development of novel methodologies and techniques for processing, analyzing, and enhancing biomedical images, including feature extraction, segmentation, object detection, and restoration. It also includes methods for image registration and alignment, qualitative analysis and measurement of anatomical structures, disease diagnosis, classification, and identification of patterns, abnormalities, and biomarkers. Moreover, it explores computer-aided detection and diagnosis and the integration of deep learning and machine learning techniques, such as CNNs and RNNs, in biomedical image processing.

Based on your expertise and previous contributions, we believe that you have the potential to make a valuable contribution to this Special Issue entitled "Computer Vision Algorithms for Biomedical Image Processing."

mdpi.com/si/180788

Special Issue

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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