Special Issue

Advances in the Use of Artificial Intelligence for the Diagnosis and Management of Hand Conditions

Message from the Guest Editor

The integration of Artificial Intelligence (AI) in healthcare has shown promising advancements, particularly in diagnosing and managing hand conditions. This Special Issue aims to explore cutting-edge applications of AI, including machine learning, deep learning, and computer vision, in preoperative diagnosis, surgical planning, and postoperative prognosis for hand-related pathologies. Key focus areas include AI's role in detecting fractures, tendon injuries, nerve compressions, and conditions such as Dupuytren's disease and arthritis. Additionally, this issue will address the use of AI to enhance imaging modalities, improve diagnostic accuracy, and predict surgical outcomes, complications, and rehabilitation trajectories. By bringing together original research, reviews, and case studies, this issue aims to highlight the potential of AI to revolutionise hand surgery and therapy while addressing challenges such as data variability, model validation, and clinical adoption.

Guest Editor

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