Special Issue

Advanced Computer Vision and Data Fusion Techniques for Medical Imaging Analysis and Processing

Message from the Guest Editor

In today's digital age, medical imaging has become an essential tool in diagnostics, treatment planning, and healthcare. Integrating advanced computer vision techniques with data fusion and machine learning transforms how medical images are analyzed and processed, enabling precise and automated healthcare. The vast and complex data from 2D and 3D scans and multimodal imaging requires more advanced methods than traditional approaches, which are no longer sufficient to meet the growing demands of accuracy, speed, and personalization in medical care. This Special Issue explores innovative advances in computer vision for medical image analysis, focusing on techniques like deep learning, data mining, and 3D imaging reconstruction that can extract key insights. Significant areas include explainable and trustworthy AI, early disease detection, and predictive modelling, ensuring systems are reliable in healthcare environments.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2025)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/222005

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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