

Special Issue

Advancing Medical Imaging with AI: From Cutting-Edge Algorithms to Clinical Integration

Message from the Guest Editor

Artificial intelligence (AI), particularly deep learning, is rapidly transforming the landscape of medical diagnostics. In recent years, AI algorithms have demonstrated remarkable capabilities in analyzing complex medical images—such as CT, MRI, and radiographs—with a level of accuracy and efficiency that can augment, and in some cases exceed, human performance. This technological revolution promises to enhance diagnostic precision, streamline clinical workflows, and pave the way for more personalized patient care. From early cancer detection in radiology to subtle anomaly identification in pathology, AI is becoming an indispensable tool for modern medicine.

This Special Issue aims to showcase the latest research, innovations, and clinical applications of AI in medical imaging. We invite submissions of original research articles and comprehensive reviews that explore novel algorithms, clinical validation studies, and new frontiers in computer-aided detection and diagnosis. We are particularly interested in works that address current challenges, such as model interpretability, data heterogeneity, and seamless integration into clinical practice.

Guest Editor

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Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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