Special Issue

Artificial Intelligence and Deep Learning in Medical Imaging

Message from the Guest Editors

Artificial Intelligence (AI) and Deep Learning (DL) are redefining medical imaging by providing unprecedented opportunities to improve diagnosis, prognosis, treatment planning, and patient safety. From advanced image segmentation and radiomics to explainable AI and privacy-preserving models, these technologies are addressing long-standing challenges in clinical imaging. However, critical issues such as reproducibility, algorithmic bias, and the safe implementation of AI in clinical workflows remain to be solved. This Special Issue aims to focus on the latest advancements in AI and DL for medical imaging, emphasizing not only precision and efficiency but also safety and ethical deployment. Submissions are welcome to explore topics such as multi-modal data integration, robust feature extraction, federated learning, clinical validation, and methods ensuring regulatory compliance. Studies that investigate strategies for mitigating risks and improving interpretability to enhance patient safety are especially welcome to be submitted. We invite authors to submit their original research articles and reviews on the abovementioned themes.

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