



Artificial Intelligence for Computer-Aided Detection in Biomedical Applications

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Message from the Guest Editor

This Special Issue explores the integration of AI techniques within CAD systems to revolutionize biomedical applications. The use of Artificial Intelligence (AI) in Computer-Aided Detection (CAD) has led to significant advancements in biomedical applications. AI encompasses the development of intelligent machines that can simulate human intelligence, enabling them to learn from large datasets and make predictions or decisions based on complex patterns and algorithms. CAD systems, on the other hand, aid healthcare professionals in the identification and analysis of various medical conditions, utilizing computer algorithms to improve accuracy and efficiency.

Topics of interest within this Special Issue include, but are not limited to, the development and evaluation of novel AI algorithms for CAD in biomedical imaging, the application of machine learning techniques to enhance detection and diagnosis accuracy, the utilization of deep learning architectures in CAD systems, the integration of AI technologies into medical decision making, the impact of AI on CAD-assisted diagnosis and treatment planning, and ethical considerations surrounding the use of AI in biomedical applications.





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