

Special Issue

Artificial Intelligence (AI) in Cardiovascular Medicine

Message from the Guest Editors

Cardiovascular diseases (CVDs) remain the leading global cause of morbidity and mortality, underscoring urgent need for early detection and timely intervention. Recent advances in artificial intelligence (AI) and machine learning offer transformative opportunities to improve cardiovascular health via more accurate, efficient, scalable diagnostic tools. From automated imaging and electrocardiographic data analysis to predictive modeling with electronic health records and wearables, AI reshapes how clinicians identify risk factors, detect early pathological changes, and guide personalized treatments. This Special Issue invites contributions on innovative AI methodologies for early CVD detection, risk stratification, prognosis. Topics include—but not limited to—deep learning for medical imaging, AI-powered biomarkers, multimodal data integration, predictive analytics, explainable AI in clinical practice, digital health/remote monitoring applications. Methodological advances and clinically oriented studies are welcome. Uniting research at AI-cardiovascular medicine intersection, this Special Issue aims to accelerate progress toward earlier diagnosis and improved patient outcomes.

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