

Special Issue

Cardiovascular Disease Risk Stratification in the Era of Machine Learning and Personalized Medicine

Message from the Guest Editor

Machine learning (ML) has been promisingly applied in cardiovascular medicine in recent years, both for disease diagnosis and in prognosis prediction. Compared with traditional statistical techniques, ML algorithms can analyze variables by performing greater numbers of mathematical operations and better define complex relationships between risk factors and outcomes of interest, strengthening the predictive process. The extraction and integration of data from various possible sources (clinical measurements and observations, biological -omics, experimental results, wearable devices) make cardiovascular disease particularly suitable for the application of ML techniques. However, at present, the lack of generalizability, reproducibility, and standardized methodologies for developing and validating ML-based prognostic models reduces the quality of the available evidence and limits their implementation in clinical practice.

The Special Issue aims to collect original research articles and reviews that will provide updates and future perspectives regarding the application and implementation of ML to the risk stratification of patients suffering from cardiovascular disease.

Guest Editor

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Deadline for manuscript submissions

closed (25 October 2023)



Journal of Personalized Medicine

an Open Access Journal
by MDPI

CiteScore 6.0
Indexed in PubMed



mdpi.com/si/117857

*Journal of Personalized
Medicine*
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About the Journal

Message from the Editor-in-Chief

Journal of Personalized Medicine is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on “omics”-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.5 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2025).