Special Issue

AI-BioEng: Smart Diagnostics and Therapeutic Innovations in Biomedical Engineering

Message from the Guest Editor

The integration of artificial intelligence and bioengineering is transforming biomedical research and clinical practice. Advances in biomedical signal processing, medical imaging, wearable technologies, and machine learning are enabling more precise diagnostics and innovative therapeutic strategies. These developments are paving the way for smart, data-driven solutions that support prevention, early detection, and personalized treatment. This Special Issue aims to highlight recent progress in AI-driven diagnostics and therapeutic innovations within biomedical engineering. We invite contributions on topics such as AI-based analysis of biosignals, imaging, and omics data; predictive models for disease monitoring; the design of wearable and implantable devices; intelligent health monitoring systems; and real-time therapeutic feedback technologies. Emphasis will be placed on approaches that enhance interpretability, reliability, and the integration of heterogeneous data sources to improve diagnostic accuracy and therapeutic efficacy.

Guest Editor

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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.

Editor-in-Chief

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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).