

Special Issue

AI in Bio and Healthcare Informatics

Message from the Guest Editors

The Issue emphasizes integrating theoretical AI research into real-world clinical implementation by exploring cutting-edge AI applications and methodologies that address critical bioinformatics and healthcare informatics challenges. It encompasses AI-powered approaches for integrating and analyzing multi-omics data, AI-driven diagnostics, disease prediction models, clinical decision support systems, personalized treatment strategies, medical imaging analysis, precision medicine, public health informatics, computational biology, electronic health record analytics, disease surveillance, wearable medical technology, and ethical issues related to the use of AI in healthcare. The Issue aims to fill these gaps by highlighting research that explores both technological advancements in AI and real-world implementation issues, such as model interpretability, bias, fairness, privacy, data security, and regulatory constraints. This Special Issue will also contribute to the body of literature by discussing the significance of explainable AI, federated learning, and AI-driven decision support systems in bridging the gap between research and clinical practice.

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