Special Issue

AI-Driven Innovations in Medical Computer Engineering and Healthcare

Message from the Guest Editors

Artificial intelligence is revolutionizing healthcare by transforming how medical data are processed and applied in clinical and research settings. Innovations in machine learning, deep learning and natural language processing are enhancing diagnostic accuracy, enabling predictive analytics and supporting personalized medicine. The Issue invites papers on cutting-edge AI-driven computer engineering for medical applications, including: AI-powered medical image and video analysis; machine learning applications in electronic health records and clinical decision support; computational approaches in personalized medicine; AI-enhanced physiological signal processing; telemedicine and remote patient monitoring; security, privacy and ethical considerations; explainability of AI models in clinical decision-making; AI systems improving healthcare accessibility in underserved regions. The focus is on interdisciplinary research bridging AI, computer engineering and medicine, highlighting how intelligent computational methods advance healthcare, improve patient outcomes and shape the future of medical practice.

Guest Editors

Dr. Netzahualcoyotl Hernandez-Cruz

Dr. Ping Lu

Dr. Jens Lundström

Dr. Irvin Hussein Lopez-Nava

Deadline for manuscript submissions

30 April 2026

AI

an Open Access Journal by MDPI

Impact Factor 5.0 CiteScore 6.9

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Kenji Suzuki
Biomedical Artificial Intelligence Research Unit (BMAI), Institute of Integrated Research, Institute of Science Tokyo, Yokohama 226-8501, Japan

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Journal Rank:
JCR - Q1 (Computer Science, Interdisciplinary Applications) / CiteScore - Q2 (Artificial Intelligence)