

Special Issue

Artificial Intelligence in Healthcare: From Disease Prediction to Personalized Treatment

Message from the Guest Editor

Artificial Intelligence (AI) is rapidly transforming the landscape of modern medicine, offering unprecedented tools for diagnosis, treatment planning, drug discovery, and patient care. From predictive analytics to intelligent clinical decision support systems, AI technologies are increasingly being integrated into medical practice, enhancing accuracy, efficiency, and personalised care. Recent advances in AI, particularly deep learning and generative AI have further demonstrated significant potential in areas such as medical imaging, genomics, pathology, and real-time health monitoring. This Special Issue aims to explore the latest breakthroughs and future directions in the application of AI in medicine. Recommended topics include, but are not limited to, the following:

- AI for early detection and diagnosis of chronic diseases;
- Explainable AI for medical applications;
- AI-driven drug discovery and development, including clinical trials;
- Deep learning applications in medical imaging;
- AI in personalised and precision medicine;
- Generative AI for early detection, diagnosis and management;
- Machine learning and deep learning for genomics and proteomics.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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