

## Special Issue

# Artificial Intelligence for Healthcare: Technologies, Applications, and Impact

### Message from the Guest Editors

Artificial intelligence (AI) is transforming healthcare by enabling more personalized, predictive, and contextualized solutions—both in clinical settings and at home. This Special Issue focuses on advanced technologies such as intelligent agents, big data, data mining, quantum machine learning, wearable devices, and the Internet of Medical Things in managing neurodevelopmental disorders (e.g., autism, Asperger's syndrome, Down syndrome), as well as pediatric and geriatric oncology, cardiac and respiratory diseases, diabetes, sensory impairments, smart prosthetics, and more. Beyond traditional AI, the Issue highlights the potential of generative AI (GAI) and natural language processing (NLP) in virtual assistants and chatbots designed to offer more social, accessible, and empathetic healthcare support. It also addresses key ethical concerns, including model explainability, data privacy, and fairness in AI applications. We invite contributions from the medical and scientific community to advance the development of smarter, more humane, and inclusive healthcare systems.

### Guest Editors

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### Deadline for manuscript submissions

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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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### Editor-in-Chief

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