



Artificial Intelligence Applications in Healthcare and Precision Medicine

Guest Editors:

Dr. Giorgio De Nunzio

Department of Mathematics and Physics, University of Salento, and DReAM (Laboratorio Diffuso di Ricerca Interdisciplinare Applicata alla Medicina), 73100 Lecce, Italy

Dr. Luana Conte

1. Department of Mathematics and Physics, University of Salento, Lecce, Italy
2. DReAM (Laboratorio Diffuso di Ricerca Interdisciplinare Applicata alla Medicina), 73100 Lecce, Italy

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Message from the Guest Editors

In recent years, there have been tremendous advances in the applications of AI in a variety of omics studies, including genomics, transcriptomics, proteomics, metabolomics, radiomics, etc., and all multi-omics integration approaches. It is therefore highly timely to discuss the potential impact of the insights generated by new machine learning (ML) and deep learning (DL) technologies on medical support, clinical decisions, clinical research, pharmaceutical industry and the entire patient pathway, which seeks to be as personalized as possible.

From another perspective, large language models (LLMs), based on DL and trained on huge amounts of text data, allow the generation of new text close to human responses, with the goal of producing virtual assistants and chatbots to provide personalized patient support, answering medical queries, scheduling appointments, and offering basic triage services.

The goal of this Special Issue is therefore to provide a series of articles highlighting the new opportunities, challenges and perspectives of AI tools in the light of precision medicine.

Both theoretical and experimental and case studies are welcome.





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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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MDPI, Grosspeteranlage 5
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