Special Issue

Application of Artificial Intelligence in Bioinformatics

Message from the Guest Editors

The use of artificial intelligence (AI) methods in bioinformatics is revolutionizing the field by enabling the analysis and interpretation of complex biological data at unprecedented scales, depth, and throughout. The ever-increasing utilizations of AI are driving advancements in clinical care, personalized medicine, drug discovery, and the understanding of fundamental biological processes. Bioinformatics serves as a common denominator across various biological domains for addressing challenges in the analysis of complex data. This Special Issue aims to foster innovation and collaboration across these different domains by highlighting the latest developments in applications of AI methods in bioinformatics. Topics of interest include, but are not limited to, the following:

- AI in genomics, transcriptomics, proteomics, and metabolomics;
- AI in the interpretation of high-throughput data;
- AI-driven drug discovery and development;
- AI in personalized medicine;
- AI for clinical prediction and decision support systems;
- AI in systems biology;
- AI in biomedical image processing.

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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.

Editor-in-Chief

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