

Special Issue

Recent Applications of Machine Learning and Data Mining in Bioinformatics

Message from the Guest Editors

The integration of machine learning and data mining techniques with bioinformatics has advanced our understanding of complex biological processes. This Special Issue aims to showcase the latest developments and applications of machine learning and data mining methods in various areas of bioinformatics. This Special Issue invites original research papers that demonstrate the recent applications of machine learning and data mining in bioinformatics. The scope encompasses but is not limited to the following topics: 1) Genomics: Machine learning techniques for gene expression and genome-wide association studies (GWAS). 2) Proteomics: Applications of data mining to proteomic data. 3) Biomedical Data Integration: Integrative approaches that combine diverse biological data types to gain insights into biological systems. 4) Drug Discovery and Development: The use of machine learning models in drug target identification. 5) Pathway Analysis: Data mining techniques to uncover biological pathways from high-throughput data. 6) Single-Cell Analysis: Machine learning methods for analyzing single-cell RNA. 7) Biological Image Analysis: Applications of deep learning in biological images.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2024)



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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.

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