Special Issue

Machine Learning in Bioinformatics: Latest Advances and Prospects

Message from the Guest Editor

Machine learning can offer new perspectives in many fields of science and engineering. In particular, with the development of high-throughput technologies, the amount of biological data has been exponentially increased. Using large and complex datasets, machine learning techniques have been employed to solve a variety of biological problems. For example, machine learning has had significant impacts in many areas of bioinformatics, such as the analysis of genomic sequences, knowledge of gene regulation, prediction of molecular interactions, protein structure prediction, systematic modeling in cell systems, drug discovery, text mining, biomedical image analysis, and so on. This Special Issue aims to cover recent advancements in machine learning techniques and applications that have been applied to bioinformatics. It will feature original research papers with technically sound and creative machine learning methods for a variety of biological challenges. Moreover, it invites review articles that present current challenges and outlooks in the field of biomedical sciences and highlight the importance of machine learning methods.

Guest Editor

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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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