

Special Issue

Recent Applications of Artificial Intelligence for Bioinformatics

Message from the Guest Editor

AI has already produced examples of applications in bio-big-data analytics such as alphafold2. However, there are still plenty of biological problems that need AI intervention to obtain a more accurate interpretation. These urgent problems include but are not limited to: 1) analysis of different omics data, including full transcriptomics, genomics, proteomics, and epigenomics; 2) functional prediction of first-order sequence data; 3) analysis of multiple omics fusion data; 4) analysis of emerging single-cell data; and 5) some common problems faced by AI in biological big data analysis, such as data imbalance, interpretable models of deep learning, etc. This Special Issue will focus on the latest advances in the application of artificial intelligence to bioinformatics, not only in the field of methods and techniques, but also in the field of artificial intelligence solutions for biodata security.

Guest Editor

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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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