Artificial Intelligence in Bioinformatics: Current Status and Future Prospects

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Message from the Guest Editors

In recent years, artificial intelligence (AI) has received a great deal of attention in diverse research fields, and bioinformatics is no exception. With the rapid progress of computational power and exponential increase of data, AI has been applied in many branches of bioinformatics, such as biological/clinical data analysis and modeling, molecular structure prediction and structure-function analysis. The two major subsets of AI—machine learning (ML) and deep learning (DL)—have created a great deal of excitement in the research community. These methods can aid the interpretation or prediction of complex systems related to biology, chemistry, and pharmaceutical sciences, among others. Currently, the applications of ML/DL modeling in bioinformatics research are still in the preliminary stage; it would be valuable to understand how AI boosts performance in many aspects of bioinformatics research.

Special Issue

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Message from the Editor-in-Chief

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