

Special Issue

Big Data in Omics Science: Challenges and Opportunities

Message from the Guest Editor

Omics data are big and people are less aware of omics science. The challenges to face now are how to handle the complexity, the heterogeneity, and the storage of these immense collections of data, to better elucidate the mechanism underlying the work of the cellular machinery.

Parallel and distributed computing can be employed to provide the researcher with new scalable bioinformatics software tools and techniques, as well as to upgrade existent bioinformatics software tools, combined along with machine learning, data mining, and statistical analysis capabilities, enabling the efficient analysis, integration, and storage of biological data, as well as translating these considerable amounts of data into actionable knowledge, which can be employed to better understand how a genome is organized.

Further, bioinformatics tools could be made available as cloud services, making it possible to further increase the spread and utilization of advanced bioinformatics tools, even in small research centers. Thus, new bioinformatics software tools exploiting high-performance computing, along with the use of machine learning algorithms, can speed up the analysis of complex living organisms.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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