Big Data Analytics in Biology and Medicine

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Message from the Guest Editors

Dear Colleagues,

The rapid advancement of big data technologies has revolutionized the fields of biology and medicine, providing unprecedented opportunities to decipher complex biological systems and enhance medical practices. This Special Issue, "Big Data Analytics in Biology and Medicine", aims to explore the latest developments in applying big data analytics to these domains. We seek original research and review articles that address the integration of big data with cutting-edge computational techniques, such as machine learning, deep learning, artificial intelligence, and network analysis, to unlock new insights in genomics, proteomics, pharmacology, and personalized medicine.

The scope of this Special Issue includes, but is not limited to, the development of novel algorithms and tools for analyzing biomedical data, the application of big data in clinical decision support systems, and the ethical implications of big data in healthcare. We also encourage contributions that showcase how big data can be used to predict disease outcomes, optimize treatment protocols, and facilitate drug discovery.

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Special Issue

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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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