Special Issue

Artificial Intelligence in Bioinformatics: Current Status and Future Prospects

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.

Guest Editors

Dr. Chao Yang
Department of Chemistry, New York University, New York, NY 10003, USA

Dr. Peng Zhou
School of Life Science and Technology, University of Electronic Science and Technology of China, Chengdu, China

Deadline for manuscript submissions

closed (20 July 2023)

MDPI

Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/
applsci

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:
JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)