



Recent Applications of Artificial Intelligence for Bioinformatics

Guest Editor:

Dr. Zhibin Lv

Department of Medical
Instruments and Information,
College of Biomedical
Engineering, Sichuan University,
Chengdu 610065, China

Deadline for manuscript
submissions:

closed (10 November 2024)

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.





an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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, Embase, CAPlus / SciFinder, and other databases.

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

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)