

Tentative Outline

Special Thematic Issue for Current Bioinformatics

[Artificial Intelligence for Bioinformatics and Biomedicine]

Guest Editors: Yongqing Zhang

Aims & Scope:

With the development of high-throughput sequencing technology, large biological data set are generated. How to effectively excavate the hidden meaning behind big data is very important to further understand the relationship between molecular biology and disease. In recent years, artificial intelligence technology has been widely studied and applied in bioinformatics and biomedicine, which has promoted the rapid development of these fields. The purpose of this thematic series is to bring together latest advances in artificial intelligence methods in bioinformatics and biomedicine. We welcome manuscripts describing novel computational techniques to analyze high throughput data such as sequences and gene/protein expressions, as well as artificial intelligence techniques such as evolutionary algorithms, Bayesian networks, neural networks or deep learning et al.

Keywords: Artificial Intelligence, Bioinformatics and Biomedicine

Subtopics:

The subtopics to be covered within this issue are listed below:

- Genomics and proteomics
- Cancer genomics
- System biology
- Next generation sequencing
- Epigenetics
- Single-cell analysis
- Algorithms/Artificial intelligence
- Brain science
- Medical informatics
- Imaging informatics
- Healthcare informatics

Schedule:

- ◇ Manuscript submission deadline: September 30th, 2019
- ◇ Peer Review Due: October 31th, 2019
- ◇ Revision Due: December 31th, 2019
- ◇ Announcement of acceptance by the Guest Editors: January 31th, 2020
- ◇ Final manuscripts due: February 29th, 2020

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