Special Issue

Algorithmic Methods for Computational Molecular Biology

Message from the Guest Editor

Challenges for algorithmic approaches in molecular biology abound – epitomized by the thriving ISMB and ECCB. Algorithmic approaches allow us to process the data and test the hypotheses that drive forward our understanding of molecular biology. For the future, we need better algorithms to bridge the gap from structure to function to phenotype. To handle the intrinsic flexibility of many biological systems, we need algorithms that embrace dynamic properties to predict function. Applications lie, for example, in the dynamic modelling of interaction networks; in better prediction of the impact of SNVs, in regulatory or coding regions, in structured or disordered regions of the protein, or where structure is unknown; in generating and/or processing meta-data to make our valuable data FAIR, and integrating data from various sources, platforms, or labs. We are looking forward to receiving your contributions as research or review papers!
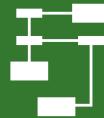
Guest Editor

Dr. K. Anton Feenstra

Centre for Integrative Bioinformatics VU (IBIVU), Department of Computer Science, Vrije Universiteit Amsterdam, De Boelelaan 1081A, 1081 HV Amsterdam, The Netherlands

Deadline for manuscript submissions

closed (15 December 2017)

Algorithms

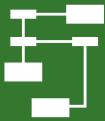an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 4.5

About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

Author Benefits

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

High Visibility:
indexed within Scopus, ESCI (Web of Science), Ei Compendex, and other databases.

Journal Rank:
JCR - Q2 (Computer Science, Theory and Methods) / CiteScore - Q1 (Numerical Analysis)

MDPI