Special Issue

Machine Learning in Mathematical and Computational Biology

Message from the Guest Editor

Over the last 30 years, machine learning has developed into a multifield interdisciplinary subject, involving the probability theory, statistics, approximation theory, convex analysis, computational complexity theory, and other disciplines. Machine learning has become a vital tool for many projects in computational biology, bioinformatics, and health informatics. The ever-expanding scale and inherent complexity of biological data have prompted the increasing use of machine learning in biology to build informative and predictive models of underlying biological processes. In this Special Issue, we envision the application of machine learning to various biological models to demonstrate its utility in addressing these growing computational challenges. We invite you to contribute to all aspects of the topic "Machine Learning in Mathematical and Computational Biology".

Guest Editor

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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

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