Biological Networks

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Message from the Guest Editors

Dear Colleagues,

In bioinformatics, the behaviors of cells are often mathematically modeled by many kinds of biological networks, including gene regulatory networks, metabolic networks, protein-protein interaction networks, signal networks, transcription networks, phylogenetic networks, *etc.*

The main themes of this Special Issue (though not an exhaustive list) are algorithms for biological networks, which include discrete algorithms, statistical algorithms, heuristic algorithms, probabilistic algorithms, randomized algorithms, and machine-learning methods to solve problems on biological networks that are computationally efficient. We accept both review papers and research papers.

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Special Issue

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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.

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