Special Issue

Approximation Algorithms for NP-Hard Problems

Message from the Guest Editors

With the rapid increase in computational power and due to the pervasiveness of algorithms in modern society, governments, institutions, universities, research centres, and scientists in general are getting more and more interested in finding algorithmic solutions to very sophisticated problems that are intractable most of the time. The upcoming Special Issue “Approximation Algorithms for NP-Hard Problems” aims to provide a comprehensive view of the most recent advances in the design and development of approximate solutions for computationally difficult problems. We therefore invite you to submit high quality papers that focus on algorithmic and complexity theoretic aspects of NP-hard problems to this Special Issue. The topics include, but are not limited to:

- approximation algorithms;
- inapproximability results;
- online algorithms and competitive analysis;
- distributed and parallel approximation;
- streaming algorithms;
- combinatorial optimization in graphs and networks;
- algorithmic game theory and mechanism design;
- computational geometry problems.

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closed (31 December 2019)

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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

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