Algorithm Engineering: Towards Practically Efficient Solutions to Combinatorial Problems

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Deadline for manuscript submissions:
closed (30 June 2019)

Message from the Guest Editors

Dear Colleagues,

The purpose of this Special Issue is to attract papers presenting original research in the area of Algorithm Engineering. In particular, we encourage submissions concerning the design, implementation, tuning, and experimental evaluation of discrete algorithms and data structures, or addressing methodological issues and standards in algorithmic experimentation. Papers dealing with advanced models of computing, including memory hierarchies, cloud architectures, and parallel processing are also welcome.

We solicit contributions from all relevant areas of applied algorithmic research which include but are not limited to: databases; geometry; graphs; big data; complex networks; combinatorial aspects of scientific computing; and computational problems in natural sciences or engineering.

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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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