Randomized Algorithms and Data Structures

Guest Editors:

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Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editors

Dear Colleagues,

Randomization has proven to be a powerful tool for algorithms, data structures, and analysis. Nowadays, problems in essentially all areas of theoretical computer science are being tackled with probabilistic techniques.

We invite you to submit high-quality research papers to this Special Issue on "Randomized Algorithms and Data Structures". Topics of interest cover the full range of applications of probability theory and randomness to theoretical computer science. These include, but are not limited to:

- Design and analysis of randomized algorithms and data structures
- Randomized complexity theory
- Randomized distributed algorithms
- Average-case and smoothed analysis
- Random processes
- Random combinatorial structures

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Guest Editors

Special Issue

Editor-in-Chief

Prof. Dr. Frank Werner
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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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