

Topical Collection

Parallel and Distributed Computing: Algorithms and Applications

Message from the Collection Editors

This Topical Collection is focused on all algorithmic aspects of parallel and distributed computing and applications. Essentially, every scenario where multiple operations or tasks are executed at the same time is within the scope of this Topical Collection. Topics of interest include (but are not limited to) the following:

- Theoretical aspects of parallel and distributed computing;
- Design and analysis of parallel and distributed algorithms;
- Algorithm engineering in parallel and distributed computing;
- Load balancing and scheduling techniques;
- Green computing;
- Algorithms and applications for big data, machine learning and artificial intelligence;
- Game-theoretic approaches in parallel and distributed computing;
- Algorithms and applications on GPUs and multicore or manycore platforms;
- Cloud computing, edge/fog computing, IoT and distributed computing;
- Scientific computing;
- Simulation and visualization;
- Graph and irregular applications.

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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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