

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 core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

Editor-in-Chief

Prof. Dr. Frank Werner

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