



## Parallel and Distributed Computing: Algorithms and Applications

Collection Editors:

**Prof. Dr. Charalampos  
Konstantopoulos**

Department of Informatics,  
University of Piraeus, 185 34  
Piraeus, Greece

**Prof. Dr. Grammati Pantziou**

Department of Informatics,  
University of West Attica, 12241  
Athens, Greece

### 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.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Frank Werner**

Faculty of Mathematics, Otto-  
von-Guericke-University, P.O. Box  
4120, D-39016 Magdeburg,  
Germany

## 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.

## Author Benefits

**Open Access :** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [Ei Compendex](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Computer Science, Theory and Methods) / CiteScore - Q1 (Numerical Analysis)

## Contact Us

---

*Algorithms* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/algorithms](http://mdpi.com/journal/algorithms)  
[algorithms@mdpi.com](mailto:algorithms@mdpi.com)  
[X@Algorithms\\_MDPI](https://twitter.com/Algorithms_MDPI)