

## Special Issue

# Algorithms for Cyber Defense: From Cryptography to Behavioral Analysis

### Message from the Guest Editor

The aim of this Special Issue is to explore the full spectrum of algorithms used in modern cyber defense. We welcome both theoretical and applied contributions in areas such as encryption and decryption methods, authentication schemes, secure key exchange, anomaly detection, static analysis, intrusion detection, reverse engineering of malicious code, adversarial learning, and security-aware AI models. We encourage submissions that bridge formal algorithm design with practical implementations in security-critical systems, ranging from embedded devices to large-scale infrastructure. This Issue serves as a platform for engineers, data scientists, and security researchers to share breakthroughs that redefine digital defense.

### Guest Editor

Dr. Paul A. Gagniuc

1. Faculty of Engineering in Foreign Languages, National University of Science and Technology POLITEHNICA Bucharest, 060042 Bucharest, Romania
2. Military Technical Academy "Ferdinand I", 050141 Bucharest, Romania

### Deadline for manuscript submissions

31 July 2026



## Algorithms

an Open Access Journal  
by MDPI

Impact Factor 2.1  
CiteScore 4.5



[mdpi.com/si/250454](https://mdpi.com/si/250454)

*Algorithms*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[algorithms@mdpi.com](mailto:algorithms@mdpi.com)

[mdpi.com/journal/  
algorithms](https://mdpi.com/journal/algorithms)





# Algorithms

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 4.5



[mdpi.com/journal/  
algorithms](https://mdpi.com/journal/algorithms)



## 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

Prof. Dr. Frank Werner

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

---

### 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)