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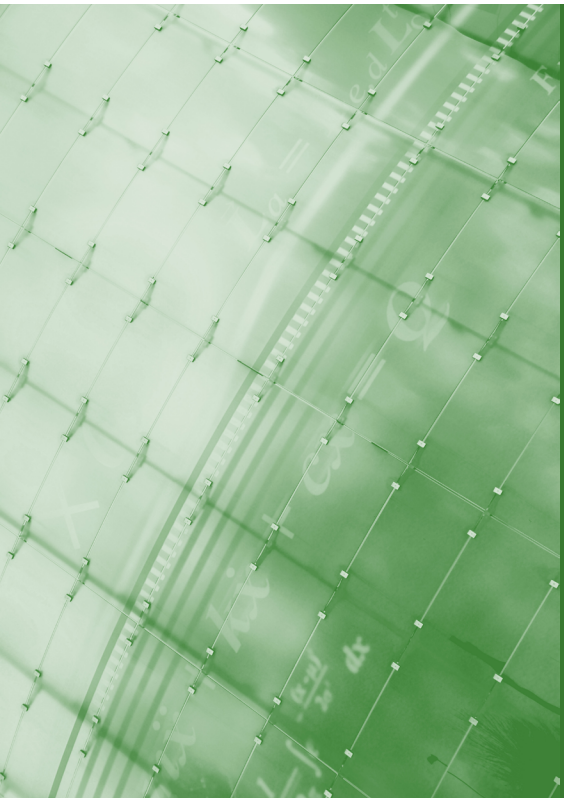
Algorithms



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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

Aims

Algorithms (ISSN 1999-4893; CODEN: ALGOCH) is an open access journal of computer science, computational mathematics, artificial intelligence, automation and control systems, theory, methods and interdisciplinary applications, data and information systems, and software engineering. *Algorithms* provides an advanced forum for studies related to algorithms and their applications. It publishes reviews, regular research papers, and short communications as well as Special Issues on particular subjects.

The aim of *Algorithms* is to encourage scientists to publish their experimental and theoretical results as much in detail as possible. Therefore, the journal has no restriction on the maximum length of the papers. Full experimental details should be provided so that the results can be reproduced. In addition, the journal has the following features:

- Manuscripts regarding new and innovative research proposals and ideas are particularly welcome;
- Electronic files or software regarding the full details of the calculation and experimental procedure as well as source codes can be submitted as supplementary material.

Scope

- Algorithm engineering
- Algorithmic game theory and mechanism design
- Algorithms for databases
- Algorithms for language processing
- Algorithms in biology, chemistry, physics
- Algorithms related to automata theory and formal languages
- Approximation algorithms
- Artificial Intelligence
- Combinatorial optimization, mathematical programming, operations research, discrete mathematics and graph theory
- Communication and data networks
- Computational geometry
- Computer Vision
- Data structures
- Differential equations
- Distributed and parallel algorithms
- Eigenvalue problems
- Image processing with applications
- Interdisciplinary applications in other areas of mathematics and computer science
- Iterative methods and algorithms
- Machine learning
- Markov chains and simulation
- Metaheuristics and matheuristics
- Numerical analysis
- Parametrized algorithms
- Performance and testing of algorithms
- Production planning, scheduling, transport, and timetabling
- Quantum algorithms
- Randomized algorithms
- Sorting and search algorithm
- Supply Chain and Logistics
- Theory of algorithms

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A first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025)

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