

# Special Issue

## Bio-Inspired Algorithms

### Message from the Guest Editors

In the field of applied informatics, the algorithmic-based procedural approach has indisputable advantages, but it also has several limitations with respect to hard problems without exact solutions due to incomplete or imperfect information and high computation demand. It is frequently worth looking to biology in order to understand and model solutions for complex real-world problems. Nature is a great source of inspiration for optimization methods for solving large, indeterministic, inscrutable problems with a lack of information. Several efficient methods and method groups are based on the process of natural selection, the behavior of living creatures, physical phenomena, or, particularly, on the mechanisms of the brain. For this Special Issue on "Bio-Inspired Algorithms", we seek original research papers about novel bio-inspired methods, analysis of already-existing techniques, or high-level practical applications from the field of computer science or any interdisciplinary field. We welcome manuscripts discussing evolutionary, swarm-intelligence-based, or brain-inspired computing methods applied in any kind of research project.

### Guest Editors

Prof. Dr. Sándor Szénási

John von Neumann Faculty of Informatics, Óbuda University, H-1034 Budapest, Hungary

Dr. Gábor Kertész

John von Neumann Faculty of Informatics, Obuda University, 1034 Budapest, Hungary

### Deadline for manuscript submissions

closed (15 November 2024)



## Algorithms

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

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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.

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### Editor-in-Chief

Prof. Dr. Frank Werner

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

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