

## Special Issue

# Nature-Inspired Algorithms in Machine Learning (3rd Edition)

### Message from the Guest Editors

We are excited to invite you to submit your papers to a Special Issue of *Algorithms* entitled “Nature-Inspired Algorithms in Machine Learning (3rd Edition)”. Machine learning algorithms are currently omnipresent and are used in a variety of practical solutions, spanning from space engineering to e-commerce. Apart from the standard statistical approach, nature-inspired algorithms are also frequently used in this area due to the complexity of data exploration tasks and the possibility of incorporating additional factors into a nature-inspired algorithm. For this Special Issue, we will accept a broad range of papers highlighting new advances in the field of nature-inspired machine learning algorithms. We invite contributions describing new techniques, novel evaluation criteria, and interesting case studies, as well as papers discussing specific variants of existing algorithms and the challenges of Big Data.

- data science/data mining
- clustering
- classification
- outlier detection
- dimensionality reduction
- unsupervised learning
- supervised learning
- nature-inspired algorithms
- metaheuristics

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### Guest Editors

Prof. Dr. Piotr A. Kowalski

Dr. Szymon Łukasik

Dr. Rohit Salgotra

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### Deadline for manuscript submissions

15 October 2025



## Algorithms

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CiteScore 4.5



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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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