

Special Issue

Algorithms for Feature Selection and Feature Reduction

Message from the Guest Editor

Dimensionality reduction plays a key role in many pattern recognition and Machine Learning (ML) problems, improving results and the overall performance. Both Feature Selection (FS) and Feature Reduction (FR) are well-known Dimensionality Reduction (DR) techniques, and there are multiple successful approaches to both. The combination of both FS and FR within one DR method has also been addressed, with interesting results. Recently, the use of nature-inspired, optimization, and evolutionary programming techniques, among others, has brought new insights into FS, with some studies now combining these Artificial Intelligence (AI)-based techniques with common ML approaches. This Special Issue welcomes papers addressing scenarios and applications where the use of DR techniques plays a central role in improving the overall results. Both theoretical and application (real-world problems)-oriented papers are acceptable, with a slight preference towards approaches that combine AI with conventional DR approaches.

Guest Editor

Dr. Artur Jorge Ferreira

Lisbon School of Engineering, Polytechnic University of Lisbon, 1959-007 Lisboa, Portugal

Deadline for manuscript submissions

28 February 2027



Algorithms

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.4



mdpi.com/si/272979

Algorithms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
algorithms@mdpi.com

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





Algorithms

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.4



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



About the Journal

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

Faculty of Mathematics, Otto-von-Guericke-University Magdeburg, 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 (Computational Mathematics)