

Special Issue

Multi-Objective and Multi-Level Optimization: Algorithms and Applications

Message from the Guest Editors

Decision-making in real world applications often require the consideration more than one objective to find effective solutions. When (conflicting) objectives are associated with either a single decision-maker or cooperative decision-makers, this typically leads to multi-objective optimization; here, optional solutions do not have the same image value, as it happens in single-objective optimization, but are non-dominated, equivalent, and allow the definition of the Pareto front. When objectives are associated with different non-cooperative decision-makers, we fall into the game theory arena; furthermore, when objectives and/or decision makers have a hierarchy among them, this asks to cope with nested optimization problems and, therefore, multi-level optimization. The aim of this Special Issue is to collect original manuscripts dealing with multi-objective and multi-level optimization; we sought original papers presenting innovative applications and/or contributing to the theory.

Guest Editors

Prof. Dr. Massimiliano Caramia

Department of Enterprise Engineering, University of Rome "Tor Vergata", 00133 Roma, Italy

Prof. Dr. Junzo Watada

Graduate School of Information, Production and Systems, Waseda University, Kitakyushu 808-0135, Japan

Deadline for manuscript submissions

closed (30 April 2023)



Algorithms

an Open Access Journal
by MDPI

Impact Factor 1.8
CiteScore 4.1



mdpi.com/si/120960

Algorithms

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 1.8
CiteScore 4.1



[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)