# **Special Issue**

# Black-Box Algorithms and Their Applications

# Message from the Guest Editor

Black-box algorithms require little to no information from the system under study and are often versatile and general enough to be applied to a wide range of problems in different domains. The most notable examples include black-box optimization algorithms such as zeroth-order and Bayesian optimization algorithms, which do not require derivatives or other explicit information for the function under optimization. We cordially invite you to submit high-quality research and review papers for this Special Issue on "Black-box Algorithms and Their Applications", with subjects ranging from theories to applications of black-box algorithms. Submitted articles may focus on recent advances in black-box algorithms, including but not limited to:

- The convergence, sample efficiency, acceleration, or other theoretical perspectives of black-box algorithms;
- Novel applications of black-box algorithms, such as applications to machine learning, artificial intelligence, control theory, cybersecurity, and intelligent systems;
- Software toolkits and benchmarks of black-box algorithms.

#### **Guest Editor**

Dr. Huan Zhang

Department of Computer Science, Carnegie Mellon University, Pittsburgh, PA 15213, USA

# Deadline for manuscript submissions

closed (1 November 2022)



# **Algorithms**

an Open Access Journal by MDPI

Impact Factor 1.8 CiteScore 4.1



mdpi.com/si/98952

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

mdpi.com/journal/algorithms





# **Algorithms**

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.1



# **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)

