



Black-Box Algorithms and Their Applications

Guest Editor:

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submissions:

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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.





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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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