Special Issue

Multiobjective Optimization: Theory, Methods and Applications

Message from the Guest Editors

This Special Issue is expected to explore a wide range of topics related to multi-objective optimization. The topics of this Special Issue include, but are not limited to, the following:

- Novel algorithms (e.g., mathematical programming methods, reinforcement learning methods, meta-learning, transfer learning, deep learning methods, and other optimizers) for solving multiobjective optimization problems;
- Algorithms for solving special multiobjective optimization problems, e.g., sparse problems, constrained problems, expensive problems, dynamic problems, multimodal problems, multitask problems, and large-scale problems;
- Algorithms for solving combinatorial multiobjective optimization problems, e.g., subset selection, vehicle routing, recommendation, scheduling, networking, blockchain, and hybrid encoding problems;
- Algorithms for solving real-world multiobjective optimization problems;
- Special methods for handling conflicting objectives, e.g., dominance, gradient guidance, and generative models;
- Performance evaluation, theoretical analysis, visualization and interpretation, and benchmarks of multiobjective optimization problems.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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