



Multi-Objective Optimization and Evolutionary Computing with Applications

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Message from the Guest Editor

In many real-world scenarios, we have to deal with multiple conflicting objectives. For such optimization scenarios, the goal is to find a set of pareto-optimal solutions representing the optimal trade-offs between different objectives. Solving this multi-objective optimization task is highly challenging when each objective function is nonlinear, discontinuous, or subject to constraints or when the decision vector consists of mixed-integer/categorical variables. As an alternative, Bayesian optimization has been generalized to multi-objective optimization problems for expensive-to-evaluate objective functions, focusing on reducing the queries to the objective function. We particularly welcome the authors to contribute to the following aspects:

- multi-objective optimization
- Bayesian optimization
- evolutionary algorithms
- evolution strategies
- black-box optimization
- performance measures/indicators
- benchmarking
- metaheuristics
- mathematical optimization
- machine learning





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Message from the Editor-in-Chief

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