Special Issue

Metaheuristic Algorithms in Optimal Design of Engineering Problems

Message from the Guest Editors

Metaheuristic algorithms are a class of optimization algorithms that can solve complex engineering design problems by finding near-optimal solutions efficiently. Some of the most popular metaheuristic algorithms used in engineering design include genetic algorithms, particle swarm optimization, simulated annealing, and ant colony optimization. These algorithms can efficiently solve complex optimization problems with many design variables and constraints, allowing engineers to quickly and accurately identify optimal solutions. The use of metaheuristic algorithms in engineering design has several advantages, including the ability to handle nonlinear and non-convex optimization problems, the ability to find near-optimal solutions in a reasonable amount of time, and the ability to handle large-scale optimization problems. Overall, metaheuristic algorithms are an important tool for engineers to optimize the design of complex engineering systems and processes.

- metaheuristic optimization algorithms
- genetic algorithms
- particle swarm optimization
- simulated annealing
- engineering design

Guest Editors

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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.

Editor-in-Chief

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