

Optimization In Engineering Sciences Metaheuristic Stochastic Methods And Decision Support Control Systems And Industrial Engineering

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Optimization In Engineering Sciences Metaheuristic

Optimization in Engineering Sciences: Metaheuristic, Stochastic Methods and Decision Support (Control, Systems and Industrial Engineering) 1st Edition by Dan Stefanoiu (Author)

Optimization in Engineering Sciences: Metaheuristic ...

The purpose of this book is to present the main metaheuristics and approximate and stochastic methods for optimization of complex systems in Engineering Sciences. It has been written within the framework of the European Union project ERRIC (Empowering Romanian Research on Intelligent Information Technologies), which is funded by the EU's FP7 Research Potential program and has been developed ...

Optimization in Engineering Sciences: Metaheuristic ...

Engineering Optimization: An Introduction with Metaheuristic Applications is an excellent book for courses on optimization and computer simulation at the upper-undergraduate and graduate levels. It is also a valuable reference for researchers and practitioners working in the fields of mathematics, engineering, computer science, operations research, and management science who use metaheuristic algorithms to solve problems in their everyday work.

Engineering Optimization: An Introduction with ...

It examines multi-objective and stochastic optimization, as well as methods and tools for computer-aided decision-making and simulation for decision-making. Optimization in Engineering Sciences: Metaheuristic, Stochastic Methods and Decision, Dan Stefanoiu, Pierre Borne, Dumitru Popescu, Florin Gheorghe Filip, Abdelkader El Kamel

Optimization in Engineering Sciences: Metaheuristic ...

An accessible introduction to metaheuristics and optimization, featuring powerful and modern algorithms for application across engineering and the sciences From engineering and computer science to economics and management science, optimization is a core component for problem solving.

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In this study, a new metaheuristic optimization algorithm, called cuckoo search (CS), is introduced for solving structural optimization tasks. The new CS algorithm in combination with Lévy flights is first verified using a benchmark nonlinear constrained optimization problem. For the validation against structural engineering optimization problems, CS is subsequently applied to 13 design ...

Cuckoo search algorithm: a metaheuristic approach to solve ...

Metaheuristic optimization deals with optimization problems using metaheuristic algorithms. Optimization is essentially everywhere, from engineering design to economics and from holiday planning to Internet routing. As money, resources and time are always limited, the optimal utility of these available resources is crucially important.

Metaheuristic Optimization - Scholarpedia

Xin-She Yang, in Nature-Inspired Optimization Algorithms, 2014. 6.1 Introduction. Differential evolution, or DE, was developed in R. Storn and K. Price in their nominal papers in 1996 and 1997 [7,8]. DE is a vector-based metaheuristic algorithm, which has some similarity to pattern search and genetic algorithms due to its use of crossover and ...

Metaheuristic Algorithm - an overview | ScienceDirect Topics

To resolve these issues, numerous metaheuristic optimization algorithms are proposed by the researchers (Dhiman et al., 2018, Dhiman and Kumar, 2019b, Dhiman and Kaur, 2019b, Dhiman and Kumar, 2019a, Dhiman et al., 2019, Dhiman, 2019c), which are found to be very efficient for solving very complex problems. However, researchers have given more emphasize in developing of metaheuristic algorithms that are computationally inexpensive, flexible, and simple by nature.

Tunicate Swarm Algorithm: A new bio-inspired based ...

In computer science and mathematical optimization, a metaheuristic is a higher-level procedure or heuristic designed to find, generate, or select a heuristic (partial search algorithm) that may provide a sufficiently good solution to an optimization problem, especially with incomplete or imperfect information or limited computation capacity.

Metaheuristic - Wikipedia

- Nature-inspired algorithms are among the most powerful algorithms for optimization. The purpose of this paper is to introduce a new nature-inspired metaheuristic optimization algorithm, called bat algorithm (BA), for solving engineering optimization tasks., - The proposed BA is based on the echolocation behavior of bats. After a detailed formulation and explanation of its ...

Bat algorithm: a novel approach for global engineering ...

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Engineering Optimization: An Introduction with ...

Written within the framework of the European Union project ERRIC, Optimization in Engineering Sciences presents the main metaheuristics and

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Engineering Optimization: An Introduction with ...

Metaheuristic optimization algorithms for four complex geotechnical problems: 1) slope stability analysis, 2) optimum design of concrete retaining walls, 3) optimum design of shallow foundations, and 4) minimization of reinforcement lengths in MSE walls

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The effectiveness of ESA is compared with well-known metaheuristics in terms of the optimal solution. The proposed ESA is also applied on six constrained and one unconstrained engineering problems to evaluate its robustness. The results reveal that ESA offers optimal solutions as compared to the other competitor algorithms.

ESA: a hybrid bio-inspired metaheuristic optimization ...

An accessible introduction to metaheuristics and optimization, featuring powerful and modern algorithms for application across engineering and the sciences From engineering and computer science to economics and management science, optimization is a core component for problem solving.

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