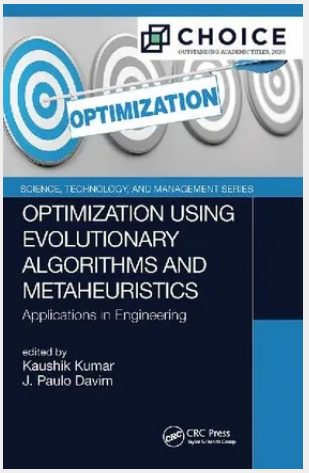
Kumar / Davim

Optimization Using Evolutionary Algorithms and Metaheuristics

Applications in Engineering



Metaheuristic optimization 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. This is usually applied when two or more objectives are to be optimized simultaneously. This book is presented with two major objectives. Firstly, it features chapters by eminent researchers in the field providing the readers about the current status of the subject. Secondly, algorithm-based optimization or advanced optimization techniques, which are applied to mostly non-engineering problems, are applied to engineering problems. This book will also serve as an aid to both research and industry. Usage of these methodologies would enable the improvement in engineering and manufacturing technology and support an organization in this era of low product life cycle. Features: - Covers the application of recent and new algorithms - Focuses on the development aspects such as including surrogate modeling, parallelization, game theory, and hybridization - Presents the advances of engineering applications for both single-objective and multi-objective optimization problems - Offers recent developments from a variety of engineering fields - Discusses Optimization using Evolutionary Algorithms and Metaheuristics applications in engineering

This book covers developments and advances of algorithm based optimization techniques These techniques were only used for non-engineering problems. This book applies them to engineering problems.

82,50 €
82,50 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780367779313
Medium: Buch
ISBN: 978-0-367-77931-3
Verlag: CRC Press
Erscheinungstermin: 31.03.2021
Sprache(n): Englisch
Auflage: 1. Auflage 2021
Serie: Science, Technology, and Management
Produktform: Kartoniert
Gewicht: 240 g
Seiten: 148
Format (B x H): 156 x 234 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)