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**Omid Bozorg-Haddad, Mohammad
Solgi, Hugo A. Loáiciga**



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Metaheuristic Optimization via Memory and Evolution Cesar Rego, Bahram Alidaee, 2006-03-30 Tabu Search TS and more recently Scatter Search SS have proved highly effective in solving a wide range of optimization problems and have had a variety of applications in industry science and government The goal of Metaheuristic Optimization via Memory and Evolution Tabu Search and Scatter Search is to report original research on algorithms and applications of tabu search scatter search or both as well as variations and extensions having adaptive memory programming as a primary focus Individual chapters identify useful new implementations or new ways to integrate and apply the principles of TS and SS or that prove new theoretical results or describe the successful application of these methods to real world problems **Modeling, Analysis, and Applications in Metaheuristic Computing: Advancements and Trends** Yin, Peng-Yeng, 2012-03-31 This book is a collection of the latest developments models and applications within the transdisciplinary fields related to metaheuristic computing providing readers with insight into a wide range of topics such as genetic algorithms differential evolution and ant colony optimization Provided by publisher **Handbook of Metaheuristics** Michel Gendreau, Jean-Yves Potvin, 2018-09-20 The third edition of this handbook is designed to provide a broad coverage of the concepts implementations and applications in metaheuristics The book's chapters serve as stand alone presentations giving both the necessary underpinnings as well as practical guides for implementation The nature of metaheuristics invites an analyst to modify basic methods in response to problem characteristics past experiences and personal preferences and the chapters in this handbook are designed to facilitate this process as well This new edition has been fully revised and features new chapters on swarm intelligence and automated design of metaheuristics from flexible algorithm frameworks The authors who have contributed to this volume represent leading figures from the metaheuristic community and are responsible for pioneering contributions to the fields they write about Their collective work has significantly enriched the field of optimization in general and combinatorial optimization in particular Metaheuristics are solution methods that orchestrate an interaction between local improvement procedures and higher level strategies to create a process capable of escaping from local optima and performing a robust search of a solution space In addition many new and exciting developments and extensions have been observed in the last few years Hybrids of metaheuristics with other optimization techniques like branch and bound mathematical programming or constraint programming are also increasingly popular On the front of applications metaheuristics are now used to find high quality solutions to an ever growing number of complex ill defined real world problems in particular combinatorial ones This handbook should continue to be a great reference for researchers graduate students as well as practitioners interested in metaheuristics *Mathematical Reviews* ,2005 Integer Programming ,2005 *Transportation Science* ,2006 Publishes original contributions and surveys associated with all modes of transportation including planning design economic operational and social *Interfaces* ,2005 Seeks to improve communication between managers and professionals in OR MS

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Optimization Using Evolutionary Algorithms and Metaheuristics

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Genetic and Evolutionary Computation Conference Hans-Georg Beyer,2005 *The British National Bibliography* Arthur James Wells,2009

Metaheuristics El-Ghazali Talbi,2009-05-27 A unified view of metaheuristics This book provides a complete background on metaheuristics and shows readers how to design and implement efficient algorithms to solve complex optimization problems across a diverse range of applications from networking and bioinformatics to engineering design routing and scheduling It presents the main design questions for all families of metaheuristics and clearly illustrates how to implement the algorithms under a software framework to reuse both the design and code Throughout the book the key search components of metaheuristics are considered as a toolbox for Designing efficient metaheuristics e g local search tabu search simulated annealing evolutionary algorithms particle swarm optimization scatter search ant colonies bee colonies artificial immune systems for optimization problems Designing efficient metaheuristics for multi objective optimization problems Designing hybrid parallel and distributed metaheuristics Implementing metaheuristics on sequential and parallel machines Using many case studies and treating design and implementation independently this book gives readers the skills necessary to solve large scale optimization problems quickly and efficiently It is a valuable reference for practicing engineers and researchers from diverse areas dealing with optimization or machine learning and graduate students in computer science operations research control engineering business and management and applied mathematics

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Loáiciga,2017-10-09 A detailed review of a wide range of meta heuristic and evolutionary algorithms in a systematic manner and how they relate to engineering optimization problems This book introduces the main metaheuristic algorithms and their applications in optimization It describes 20 leading meta heuristic and evolutionary algorithms and presents discussions and assessments of their performance in solving optimization problems from several fields of engineering The book features clear and concise principles and presents detailed descriptions of leading methods such as the pattern search PS algorithm the genetic algorithm GA the simulated annealing SA algorithm the Tabu search TS algorithm the ant colony optimization ACO and the particle swarm optimization PSO technique Chapter 1 of Meta heuristic and Evolutionary Algorithms for Engineering Optimization provides an overview of optimization and defines it by presenting examples of optimization problems in different engineering domains Chapter 2 presents an introduction to meta heuristic and evolutionary algorithms and links them to engineering problems Chapters 3 to 22 are each devoted to a separate algorithm and they each start with a brief literature review of the development of the algorithm and its applications to engineering problems The principles steps and execution of the algorithms are described in detail and a pseudo code of the algorithm is presented which serves as a guideline for coding the algorithm to solve specific applications This book Introduces state of the art metaheuristic algorithms and their applications to engineering optimization Fills a gap in the current literature by compiling and explaining the various meta heuristic and evolutionary algorithms in a clear and systematic manner Provides a step by step presentation of each algorithm and guidelines for practical implementation and coding of algorithms Discusses and assesses the performance of metaheuristic algorithms in multiple problems from many fields of engineering Relates optimization algorithms to engineering problems employing a unifying approach Meta heuristic and Evolutionary Algorithms for Engineering Optimization is a reference intended for students engineers researchers and instructors in the fields of industrial engineering operations research optimization mathematics engineering optimization and computer science OMID BOZORG HADDAD PhD is Professor in the Department of Irrigation and Reclamation Engineering at the University of Tehran Iran MOHAMMAD SOLGI M Sc is Teacher Assistant for M Sc courses at the University of Tehran Iran HUGO A LO ICIGA PhD is Professor in the Department of Geography at the University of California Santa Barbara United States of America

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