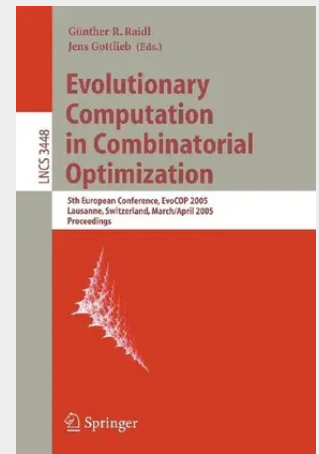


Evolutionary Computation in Combinatorial Optimization

5th European Conference, EvoCOP 2005, Lausanne, Switzerland, March 30 - April 1, 2005, Proceedings

This book constitutes the refereed proceedings of the 5th European Conference on Evolutionary Computation in Combinatorial Optimization, EvoCOP 2005, held in Lausanne, Switzerland in March/April 2005. The 24 revised full papers presented were carefully reviewed and selected from 66 submissions. The papers cover evolutionary algorithms as well as related approaches like scatter search, simulated annealing, ant colony optimization, immune algorithms, variable neighborhood search, hyperheuristics, and estimation of distribution algorithms. The papers deal with representations, analysis of operators and fitness landscapes, and comparison algorithms. Among the combinatorial optimization problems studied are graph coloring, quadratic assignment, knapsack, graph matching, packing, scheduling, timetabling, lot-sizing, and the traveling salesman problem.

An External Partial Permutations Memory for Ant Colony Optimization.- A Novel Application of Evolutionary Computing in Process Systems Engineering.- Choosing the Fittest Subset of Low Level Heuristics in a Hyperheuristic Framework.- An Attribute Grammar Decoder for the 01 MultiConstrained Knapsack Problem.- EvoGeneS, a New Evolutionary Approach to Graph Generation.- On the Application of Evolutionary Algorithms to the Consensus Tree Problem.- Analyzing Fitness Landscapes for the Optimal Golomb Ruler Problem.- Immune Algorithms with Aging Operators for the String Folding Problem and the Protein Folding Problem.- Multiobjective Quadratic Assignment Problem Solved by an Explicit Building Block Search Algorithm - MOMGA-IIa.- Lot-Sizing in a Foundry Using Genetic Algorithm and Repair Functions.- Estimation of Distribution Algorithms with Mutation.- Property Analysis of Symmetric Travelling Salesman Problem Instances Acquired Through Evolution.- Heuristic Colour Assignment Strategies for Merge Models in Graph Colouring.- Application of the Grouping Genetic Algorithm to University Course Timetabling.- Self-Adapting Evolutionary Parameters: Encoding Aspects for Combinatorial Optimization Problems.- Population Training Heuristics.- Scatter Search Particle Filter to Solve the Dynamic Travelling Salesman Problem.- The Use of Meta-heuristics to Solve Economic Lot Scheduling Problem.- Making the Edge-Set Encoding Fly by Controlling the Bias of Its Crossover Operator.- Ant Algorithm for the Graph Matching Problem.- An Adaptive Genetic Algorithm for the Minimal Switching Graph Problem.- An Improved Simulated Annealing Method for the Combinatorial Subproblem of the Profit-Based Unit Commitment Problem.- A New Hybrid GA/SA Algorithm for the Job Shop Scheduling Problem.- An AgentModel for Binary Constraint Satisfaction Problems.



53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540253372

Medium: Buch

ISBN: 978-3-540-25337-2

Verlag: Springer

Erscheinungstermin: 21.03.2005

Sprache(n): Englisch

Auflage: 1. Auflage 2005

Serie: Theoretical Computer Science and General Issues

Produktform: Kartoniert

Gewicht: 441 g

Seiten: 271

Format (B x H): 155 x 235 mm

