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Titolo	Evolutionary Multi-Criterion Optimization [[electronic resource]] : Second International Conference, EMO 2003, Faro, Portugal, April 8-11, 2003, Proceedings // edited by Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele
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Soggetti	Evolutionary biology Software engineering Algorithms Numerical analysis Computer science—Mathematics Artificial intelligence Evolutionary Biology Software Engineering/Programming and Operating Systems Algorithm Analysis and Problem Complexity Numeric Computing Discrete Mathematics in Computer Science Artificial Intelligence
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Objective Handling and Problem Decomposition -- The Maximin Fitness Function; Multi-objective City and Regional Planning -- Conflict, Harmony, and Independence: Relationships in Evolutionary Multi-criterion Optimisation -- Is Fitness Inheritance Useful for Real-World Applications? -- Use of a Genetic Heritage for Solving the Assignment Problem with Two Objectives -- Fuzzy Optimality and Evolutionary Multiobjective Optimization -- IS-PAES: A Constraint-Handling Technique Based on Multiobjective Optimization Concepts --

A Population and Interval Constraint Propagation Algorithm -- Multi-objective Binary Search Optimisation -- Covering Pareto Sets by Multilevel Evolutionary Subdivision Techniques -- An Adaptive Divide-and-Conquer Methodology for Evolutionary Multi-criterion Optimisation -- Multi-level Multi-objective Genetic Algorithm Using Entropy to Preserve Diversity -- Solving Hierarchical Optimization Problems Using MOEAs -- Multiobjective Meta Level Optimization of a Load Balancing Evolutionary Algorithm -- Algorithm Improvements -- Schemata-Driven Multi-objective Optimization -- A Real-Coded Predator-Prey Genetic Algorithm for Multiobjective Optimization -- Towards a Quick Computation of Well-Spread Pareto-Optimal Solutions -- Trade-Off between Performance and Robustness: An Evolutionary Multiobjective Approach -- Online Adaptation -- The Micro Genetic Algorithm 2: Towards Online Adaptation in Evolutionary Multiobjective Optimization -- Self-Adaptation for Multi-objective Evolutionary Algorithms -- MOPED: A Multi-objective Parzen-Based Estimation of Distribution Algorithm for Continuous Problems -- Test Problem Construction -- Instance Generators and Test Suites for the Multiobjective Quadratic Assignment Problem -- Dynamic Multiobjective Optimization Problems: Test Cases, Approximation, and Applications -- No Free Lunch and Free Leftovers Theorems for Multiobjective Optimisation Problems -- Performance Analysis and Comparison -- A New MOEA for Multi-objective TSP and Its Convergence Property Analysis -- Convergence Time Analysis for the Multi-objective Counting Ones Problem -- Niche Distributions on the Pareto Optimal Front -- Performance Scaling of Multi-objective Evolutionary Algorithms -- Searching under Multi-evolutionary Pressures -- Minimal Sets of Quality Metrics -- A Comparative Study of Selective Breeding Strategies in a Multiobjective Genetic Algorithm -- An Empirical Study on the Effect of Mating Restriction on the Search Ability of EMO Algorithms -- Alternative Methods -- Using Simulated Annealing and Spatial Goal Programming for Solving a Multi Site Land Use Allocation Problem -- Solving Multi-criteria Optimization Problems with Population-Based ACO -- A Two-Phase Local Search for the Biobjective Traveling Salesman Problem -- Implementation -- PISA — A Platform and Programming Language Independent Interface for Search Algorithms -- A New Data Structure for the Nondominance Problem in Multi-objective Optimization -- The Measure of Pareto Optima Applications to Multi-objective Metaheuristics -- Distributed Computing of Pareto-Optimal Solutions with Evolutionary Algorithms -- Applications -- Multiobjective Capacitated Arc Routing Problem -- Multi-objective Rectangular Packing Problem and Its Applications -- Experimental Genetic Operators Analysis for the Multi-objective Permutation Flowshop -- Modification of Local Search Directions for Non-dominated Solutions in Cellular Multiobjective Genetic Algorithms for Pattern Classification Problems -- Effects of Three-Objective Genetic Rule Selection on the Generalization Ability of Fuzzy Rule-Based Systems -- Identification of Multiple Gene Subsets Using Multi-objective Evolutionary Algorithms -- Non-invasive Atrial Disease Diagnosis Using Decision Rules: A Multi-objective Optimization Approach -- Intensity Modulated Beam Radiation Therapy Dose Optimization with Multiobjective Evolutionary Algorithms -- Multiobjective Evolutionary Algorithms Applied to the Rehabilitation of a Water Distribution System: A Comparative Study -- Optimal Design of Water Distribution System by Multiobjective Evolutionary Methods -- Evolutionary Multiobjective Optimization in Watershed Water Quality Management -- Different Multi-objective Evolutionary Programming Approaches for Detecting Computer Network Attacks -- Safety Systems

Optimum Design by Multicriteria Evolutionary Algorithms --
Applications of a Multi-objective Genetic Algorithm to Engineering
Design Problems -- A Real-World Test Problem for EMO Algorithms --
Genetic Methods in Multi-objective Optimization of Structures with an
Equality Constraint on Volume -- Multi-criteria Airfoil Design with
Evolution Strategies -- Visualization and Data Mining of Pareto
Solutions Using Self-Organizing Map.
