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Titolo	Evolutionary Multi-Criterion Optimization : 12th International Conference, EMO 2023, Leiden, The Netherlands, March 20–24, 2023, Proceedings / / edited by Michael Emmerich, André Deutz, Hao Wang, Anna V. Kononova, Boris Naujoks, Ke Li, Kaisa Miettinen, Iryna Yevseyeva
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Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 13970
Disciplina	519.3
Soggetti	Algorithms Computer science - Mathematics Artificial intelligence Computers Computer networks Social sciences - Data processing Design and Analysis of Algorithms Mathematics of Computing Artificial Intelligence Computing Milieux Computer Communication Networks Computer Application in Social and Behavioral Sciences
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Algorithm Design and Engineering -- Visual Exploration of the Effect of Constraint Handling in Multiobjective Optimization -- A Two-stage Algorithm for Integer Multiobjective Simulation Optimization -- RegEMO: Sacrificing Pareto-Optimality for Regularity in Multi-objective Problem-Solving -- Cooperative coevolutionary NSGA-II with Linkage Measurement Minimization for Large-scale Multi-objective Optimization -- Data-Driven Evolutionary Multi-Objective Optimization

Based on Multiple-Gradient Descent for Disconnected Pareto Fronts --
 Eliminating Non-dominated Sorting from NSGA-III -- Scalability of
 Multi-Objective Evolutionary Algorithms for Solving Real-World
 Complex Optimization Problems -- Machine Learning and Multi-
 criterion Optimization -- Multi-Objective Learning using HV
 Maximization -- Sparse Adversarial Attack via Bi-Objective
 Optimization -- Investigating Innovized Progress Operators with
 Different Machine Learning Methods -- End-to-End Pareto Set
 Prediction with Graph Neural Networks for Multi-objective Facility
 Location -- Online Learning Hyper-Heuristics in Multi-Objective
 Evolutionary Algorithms -- Surrogate-assisted Multi-objective
 Optimization via Genetic Programming based Symbolic Regression --
 Learning to Predict Pareto-optimal Solutions From Pseudo-weights -- A
 Relation Surrogate Model for Expensive Multiobjective Continuous and
 Combinatorial Optimization -- Pareto Front Upconvert by Iterative
 Estimation Modeling and Solution Sampling -- Pareto Front Upconvert
 by Iterative Estimation Modeling and Solution Sampling --
 Approximation of a Pareto Set Segment Using a Linear Model with
 Sharing Variables -- Feature-based Benchmarking of Distance-based
 Multi/Many-objective Optimisation Problems: A Machine Learning
 Perspective -- Benchmarking and Performance Assessment -- Partially
 Degenerate Multi-Objective Test Problems -- Peak-A-Boo!
 Generating Multi-Objective Multiple Peaks Benchmark Problems with
 Precise Pareto Sets -- MACO: A Real-world inspired Benchmark for
 Multi-objective Evolutionary Algorithms -- A scalable test suite for bi-
 objective multidisciplinary optimisation -- Performance Evaluation of
 Multi-Objective Evolutionary Algorithms using Artificial and Real-World
 Problems -- A Novel Performance Indicator based on the Linear
 Assignment Problem -- A Test Suite for Multi-objective Multi-fidelity
 Optimization -- Indicator Design and Complexity Analysis -- Diversity
 enhancement via magnitude -- Two-Stage Greedy Approximated
 Hypervolume Subset Selection for Large-Scale Problems -- Two-Stage
 Greedy Approximated Hypervolume Subset Selection for Large-Scale
 Problems -- On the Computational Complexity of Efficient Non-
 Dominated Sort using Binary Search -- Applications in Real World
 Domains -- Evolutionary Algorithms with Machine Learning Models for
 Multiobjective Optimization in Epidemics Control -- Joint Price
 Optimization across a Portfolio of Fashion E-commerce Products --
 Improving MOEA/D with Knowledge Discovery. Application to a Bi-
 Objective Routing Problem -- The Prism-Net Search Space
 Representation for Multi-Objective Building Spatial Design -- Selection
 Strategies for a Balanced Multi- or Many-Objective Molecular
 Optimization and Genetic Diversity: a Comparative Study -- A Multi-
 objective Evolutionary Framework for Identifying Dengue Stage-Specific
 Differentially Co-expressed and Functionally Enriched Gene Modules --
 A Multi-objective Evolutionary Framework for Identifying Dengue
 Stage-Specific Differentially Co-expressed and Functionally Enriched
 Gene Modules. -Multiobjective Optimization of Evolutionary Neural
 Networks for Animal Trade Movements Prediction -- Transfer of Multi-
 Objectively Tuned CMA-ES Parameters to a Vehicle Dynamics Problem
 -- Multi-Criteria Decision Making and Interactive Algorithms --
 Preference-Based Nonlinear Normalization for Multiobjective
 Optimization -- Incorporating preference information interactively in
 NSGA-III by the adaptation of reference vectors -- A Systematic Way of
 Structuring Real-World Multiobjective Optimization Problems -- IK-
 EMOViz: An Interactive Knowledge-based Evolutionary Multi-objective
 Optimization Framework -- An Interactive Decision Tree-Based
 Evolutionary Multi-Objective Algorithm.

This book constitutes the refereed proceedings of the 12th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2022 held in Leiden, The Netherlands, during March 20-24, 2023. The 44 regular papers presented in this book were carefully reviewed and selected from 65 submissions. The papers are divided into the following topical sections: Algorithm Design and Engineering; Machine Learning and Multi-criterion Optimization; Benchmarking and Performance Assessment; Indicator Design and Complexity Analysis; Applications in Real World Domains; and Multi-Criteria Decision Making and Interactive Algorithms.
