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Nota di contenuto	Many-Objectives Optimization, Performance and Robustness -- Evolutionary Many-objective Optimization based on Kuhn-Munkres' Algorithm -- A KKT Proximity Measure for Evolutionary Multi-Objective and Many-Objective Optimization -- U-NSGA-III: A Unified Evolutionary Optimization Procedure for Single, Multiple, and Many Objectives -- Proof-of- Principle Results -- Clustering based parallel Many-objective Evolutionary Algorithms using the shape of the objective vectors -- Faster Exact Algorithms for Computing Expected Hypervolume Improvement -- A GPU-based Algorithm for a Faster Hypervolume Contribution Computation -- A Feature-based Performance Analysis in Evolutionary Multiobjective Optimization -- Modified Distance Calculation in Generational Distance and Inverted Generational Distance

-- On the Behavior of Stochastic Local Search within Parameter Dependent MOPs -- An Evolutionary Approach to Active Robust Multiobjective Optimisation -- Linear scalarization Pareto front identification in stochastic environments -- Elite Accumulative Sampling Strategies for Noisy Multi-Objective Optimisation -- Guideline Identification for Optimization under Uncertainty through the Optimization of a Boomerang Trajectory -- MCDM -- Using indifference information in robust ordinal regression -- A Multi-objective genetic algorithm for inferring inter-criteria parameters for water supply consensus -- Genetic Algorithm Approach for a Class of Multi-criteria, Multi-vehicle Planner of UAVs -- An Interactive Evolutionary Multiobjective Optimization Method: Interactive WASF-GA -- On Generalizing Lipschitz Global Methods for Multiobjective Optimization -- Dealing with scarce optimization time in complex logistics optimization: A study on the biobjective Swap-Body Inventory Routing Problem -- Machine Decision Makers as a Laboratory for Interactive EMO -- Real World Applications -- Aircraft Air Inlet Design Optimization via Surrogate-Assisted Evolutionary Computation -- Diesel Engine Drive-Cycle Optimization with the Integrated Optimization Environment – Liger -- Re-design for robustness: An approach based on many objective optimization -- A Model for a Human Decision-Maker in a Polymer Extrusion Process -- Multi-Objective Optimization of Gate Location and Processing Conditions in Injection Molding Using MOEAs: Experimental Assessment -- A Multi-Criteria Decision Support System for a Routing Problem in Waste Collection -- Application of Evolutionary Multiobjective Algorithms for solving the problem of Energy Dispatch in Hydroelectric Power Plants -- Solutions in Under 10 Seconds for Vehicle Routing Problems with Time Windows using Commodity Computers -- A comparative study of algorithms for solving the Multiobjective Open-Pit Mining Operational Planning Problems -- A Model to Select a Portfolio of Multiple Spare Parts for a Public Bus Transport Service Using NSGA II.-A Multi-Objective Optimization Approach Associated to Climate Change Analysis to Improve Systematic Conservation Planning -- Marginalization in Mexico: An Application of the Electre III [Please insert into preamble] MOEA Methodology -- Integrating Hierarchical Clustering and Pareto-Efficacy to Preventive Controls Selection in Voltage Stability Assessment -- Multi-objective Evolutionary Algorithm with Discrete Differential Mutation Operator for Service Restoration in Large-scale -- Distribution Systems -- Combining Data Mining and Evolutionary Computation for Multi-Criteria Optimization of Earthworks -- Exploration of Two-Objective Scenarios on Supervised Evolutionary Feature Selection: a Survey and a Case Study -- (Application to Music Categorisation) -- A Multi-Objective Approach for Building Hyperspectral Remote Sensed Image Classifier Combiners -- Multi-Objective Optimization of Barrier Coverage with Wireless Sensors -- Comparison of Single and Multi-objective Evolutionary Algorithms for Robust Link-state Routing.

Sommario/riassunto

This book constitutes the refereed proceedings of the 8th International Conference on Evolutionary Multi-Criterion Optimization, EMO 2015 held in Guimarães, Portugal in March/April 2015. The 68 revised full papers presented together with 4 plenary talks were carefully reviewed and selected from 90 submissions. The EMO 2015 aims to continue these type of developments, being the papers presented focused in: theoretical aspects, algorithms development, many-objectives optimization, robustness and optimization under uncertainty, performance indicators, multiple criteria decision making and real-world applications.
