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Nota di contenuto	Optimization of Home Care Visits Schedule by Genetic Algorithm -- New Techniques for Inferring L-systems Using Genetic Algorithm -- An Adaptive Metaheuristic for Unconstrained Multimodal Numerical Optimization -- Scrum Task Allocation Based on Particle Swarm Optimization -- Cooperative Model for Nature-Inspired Algorithms in Solving Real-World Optimization Problems -- Collaborative Agent Teams (CAT): from the Paradigm to Implementation Guidelines -- A Bio-inspired Approach for Collaborative Exploration with Mobile Battery Recharging in Swarm Robotics -- Constructive Metaheuristics for the

Set Covering Problem -- Single and multiobjective evolutionary algorithms for clustering biomedical information with unknown number of clusters -- Evolutionary algorithms for scheduling of crude oil preheating process under linear fouling -- Hybrid weighted barebones exploiting particle swarm optimization algorithm for time series representation -- Data-driven Preference-based Deep Statistical Ranking for Comparing -- sMulti-Objective Optimization Algorithms -- Construction of heuristic for protein structure optimization using deep reinforcement learning -- Comparing Boundary Control Methods for Firefly Algorithm -- A New Binary Encoding Scheme in Genetic Algorithm for Solving the Capacitated Vehicle Routing Problem -- Ensemble and Fuzzy techniques applied to Imbalanced Traffic Congestion Datasets: a Comparative Study -- Multi-Objective Design of Time-Constrained Bike Routes using Bio-inspired Meta-Heuristics -- Ensemble of Kriging with Multiple Kernel Functions for Engineering Design Optimization -- Path Planning Optimization Method Based on Genetic Algorithm for Mapping Toxic Environment -- Tuning Multi-Objective Optimization Algorithms for the Integration and Testing Order Problem -- Surrogate-Assisted Particle Swarm with Local Search for Expensive Constrained Optimization -- Indicator-based versus Aspect-based Selection in Multi- and Many-objective Biochemical Optimization -- An Approach for Recovering Distributed Systems from Disasters -- Population Diversity Analysis for the Chaotic based Selection of Individuals in Differential Evolution -- Robust Design with Surrogate-Assisted Evolutionary Algorithm: Does it work? -- How Distance based Parameter Adaptation Affects Population Diversity -- Collaborative Variable Neighborhood Search.

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#### Sommario/riassunto

This book constitutes the thoroughly refereed revised selected papers of the 10th International Conference on Bioinspired Optimization Models and Their Applications, BIOMA 2018, held in Paris, France, in May 2018. The 27 revised full papers were selected from 53 submissions and present papers in all aspects of bioinspired optimization research such as new algorithmic developments, high-impact applications, new research challenges, theoretical contributions, implementation issues, and experimental studies.

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