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Soggetti	Artificial intelligence Algorithms Numerical analysis Computer networks Image processing - Digital techniques Computer vision Artificial Intelligence Numerical Analysis Computer Communication Networks Computer Imaging, Vision, Pattern Recognition and Graphics
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Nota di contenuto	Review on the Improvement and Application of Ant Colony Algorithm -- Experimental analysis of selective imitation for multifactorial dierential evolution -- Brain Storm Optimization Algorithm with Estimation of Distribution -- Tentative Study on Solving Impulse Control Equations of Plant-pest-predator Model with Dierential Evolution Algorithm -- Microgrid Frequency Control Based on Genetic and Fuzzy Logic Hybrid Optimization -- Using Multi-Objective Particle Swarm Optimization to Solve Dynamic Economic Emission Dispatch Considering Wind Power and Electric Vehicles -- Evolutionary Optimization of Three-degree Inuence Spread In Social Networks Based on DiscreteBacterial Foraging Optimization Algorithm -- Ant

Colony Algorithm Based on Upper Bound of Nodes for Robot Path Planning Problems -- Adaptive Brain Storm Optimization Based on Learning Automata -- A reference point-based evolutionary algorithm for many-objective fuzzy portfolio selection -- Hybrid Bacterial Forging Optimization based on Articial Fish Swarm Algorithm and Gaussian Disturbance -- Research on Multiobjective Optimization Strategy of Economic/Environmental Energy Management for Multi-Energy Ship Based on MOEA/D -- Many-objective Evolutionary Optimization based Economic Dispatch of Integrated Energy Systemwith Multi-microgrid and CHP -- Multiobjective Particle Swarm Optimization with Directional Search for Distributed PermutationFlow Shop Scheduling Problem -- An Improved Pigeon-Inspired Optimization Combining Adaptive Inertia Weight with a One-Dimension Modication Mechanism -- ESAE: Evolutionary Strategy-based Architecture Evolution -- Species-based dierential evolution with migration for multimodal optimization -- An Enhanced Bacterial Foraging Optimization Based on Levy Flight and Improved Roulette Wheel Selection -- Three-Dimensional Packing Algorithm of Single Container Based on Genetic Algorithm -- A Hybrid Ant Colony Optimization Algorithm for the Fleet Size and Mix Vehicle Routing Problemwith Time Windows -- Multi-Subpopulation Algorithm with Ensemble Mutation Strategies for Protein Structure Prediction -- A Multi-Objective Bat Algorithm for Software Defect Prediction -- Mutation Strategy Selection Based on Fitness Landscape Analysis : A Preliminary Study -- Ensemble Learning Based on Multimodal Multiobjective Optimization -- Aircraft scheduling problems based on genetic algorithms -- Estimating Approximation Errors of Elitist Evolutionary Algorithms -- Research on Two-level Inventory Optimization Algorithm for Repairable Spare Parts Based onImproved Dierential Evolution -- A clustering-based multiobjective evolutionary algorithm for balancing exploration and exploitation -- An Improved Squirrel Search Algorithm with Reproduction and Competition Mechanisms -- Modied Self-adaptive Brain Storm Optimization Algorithm for Multimodal Optimization -- Recent Bio-inspired Algorithms for Solving Flexible Job Shop Scheduling Problem: A Comparative Study -- Unidirectional Cyclic Network Architecture for Distributed Evolution -- A Re-initialization Clustering-based Adaptive Dierential Evolution for Nonlinear Equations Systems -- Ensemble Learning via Multimodal Multiobjective Dierential Evolution and Feature Selection -- A Knee Point based NSGA-II Multi-objective Evolutionary Algorithm -- A Cell Potential and Motion Pattern driven Multi-Robot Coverage Path Planning Algorithm -- Task Set Scheduling of Airport Freight StationBased on Parallel Articial Bee ColonyAlgorithm -- Water Wave Optimization With Self-Adaptive Directed Propagation -- An Unbiased Buttery Oplimizatlon Algorilhm -- On-chip health monitoring based on DE-Cluster in 2.5D ICs -- Multi-AGV Collision Avoidance Path Optimization for Unmanned Warehouse Based on ImprovedAnt Colony Algorithm -- An Improved Competitive Swarm Optimizer for Large Scale Optimization -- MEAPCA: A multi-population evolutionary algorithm based on PCA for multi-objective optimization -- A Novel Genetic Algorithm With Population Perturbation and Elimination for Multi-Satellite T-T&C Scheduling Problem -- A Novel Grey Wolf Optimization Based Combined Feature Selection Method -- Improved discrete articial bee colony algorithm -- UAV 3D Path Planning Based on Multi-population Ensemble Dierential Evolution -- Multi-objective Feature Selection based on Articial Bee Colony for Hyperspectral Images -- Meta-Heuristic Hybrid Algorithmic Approach for Solving Combinatorial Optimization Problem (TSP) -- An Eective Two-stage Optimization Method based on NSGA-II

for Green Multi-Objective Inte-grated Process Planning and Scheduling Problem -- An Improved Multi-objective Particle Swarm Optimization with Adaptive Penalty Value for Feature Selection -- An Adaptive Brain Storm Optimization Algorithm based on Heuristic Operatorsfor TSP -- A Modied JAYA Algorithm for Optimization in Brushless DC Wheel Motor -- Genetic Action Sequence for Integration of Agent Actions -- Based on fuzzy non-dominant and sparse individuals to improve many-objective dierential evolutionary -- KnEA with Ensemble Approach for Parameter Selection for Many-objective Optimization -- Decomposition based dierentiate evolution algorithm with niching strategy for Multimodal Multi-objective Optimization -- A Bacterial Foraging Framework for AgentBased Modeling -- A Modied Memetic Algorithm for Multi-depot Green Capacitated Arc Routing Problem -- Multi-objective Pick-up Point Location Optimization Based on A Modied Genetic Algorithm -- Ecient Evolutionary Neural Architecture Search (NAS) by Modular Inheritable Crossover. .

Sommario/riassunto

This two-volume set (CCIS 1159 and CCIS 1160) constitutes the proceedings of the 14th International Conference on Bio-inspired Computing: Theories and Applications, BIC-TA 2019, held in Zhengzhou, China, in November 2019. The 121 full papers presented in both volumes were selected from 197 submissions. The papers are organized according to the topical headings: evolutionary computation and swarm intelligence; bioinformatics and systems biology; complex networks; DNA and molecular computing; neural networks and articial intelligence.