

1. Record Nr.	UNISA996465464103316
Titolo	Bio-inspired Computing: Theories and Applications [[electronic resource]] : 14th International Conference, BIC-TA 2019, Zhengzhou, China, November 22–25, 2019, Revised Selected Papers, Part I / / edited by Linqiang Pan, Jing Liang, Boyang Qu
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-3425-X
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXIV, 775 p. 261 illus., 168 illus. in color.)
Collana	Communications in Computer and Information Science, , 1865-0929 ; ; 1159
Disciplina	006
Soggetti	Artificial intelligence Algorithms Numerical analysis Computers Computer communication systems Optical data processing Artificial Intelligence Algorithm Analysis and Problem Complexity Numeric Computing Information Systems and Communication Service Computer Communication Networks Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Review on the Improvement and Application of Ant Colony Algorithm -- Experimental analysis of selective imitation for multifactorial differential evolution -- Brain Storm Optimization Algorithm with Estimation of Distribution -- Tentative Study on Solving Impulse Control Equations of Plant-pest-predator Model with Differential 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 Influence Spread In Social Networks Based on Discrete Bacterial 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 Foraging Optimization based on Artificial 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 on Economic Dispatch of Integrated Energy System with Multi-microgrid and CHP -- Multiobjective Particle Swarm Optimization with Directional Search for Distributed Permutation Flow Shop Scheduling Problem -- An Improved Pigeon-Inspired Optimization Combining Adaptive Inertia Weight with a One-Dimension Modification Mechanism -- ESAE: Evolutionary Strategy-based Architecture Evolution -- Species-based differential 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 Problem with 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 on Improved Differential Evolution -- A clustering-based multiobjective evolutionary algorithm for balancing exploration and exploitation -- An Improved Squirrel Search Algorithm with Reproduction and Competition Mechanisms -- Modified 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 Differential Evolution for Nonlinear Equations Systems -- Ensemble Learning via Multimodal Multiobjective Differential 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 Station Based on Parallel Artificial Bee Colony Algorithm -- Water Wave Optimization With Self-Adaptive Directed Propagation -- An Unbiased Butterfly Optimization Algorithm -- On-chip health monitoring based on DE-Cluster in 2.5D ICs -- Multi-AGV Collision Avoidance Path Optimization for Unmanned Warehouse Based on Improved Ant 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 artificial bee colony algorithm -- UAV 3D Path Planning Based on Multi-population Ensemble Differential Evolution -- Multi-objective Feature Selection based on

Artificial Bee Colony for Hyperspectral Images -- Meta-Heuristic Hybrid Algorithmic Approach for Solving Combinatorial Optimization Problem (TSP) -- An Effective Two-stage Optimization Method based on NSGA-II for Green Multi-Objective Integrated 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 Operators for TSP -- A Modified 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 differential evolutionary -- KnEA with Ensemble Approach for Parameter Selection for Many-objective Optimization -- Decomposition based differential evolution algorithm with niching strategy for Multimodal Multi-objective Optimization -- A Bacterial Foraging Framework for AgentBased Modeling -- A Modified Memetic Algorithm for Multi-depot Green Capacitated Arc Routing Problem -- Multi-objective Pick-up Point Location Optimization Based on A Modified Genetic Algorithm -- Efficient 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 artificial intelligence.
