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| Soggetti | Algorithms<br>Artificial intelligence<br>Computer networks<br>Computer arithmetic and logic units<br>Application software<br>Artificial Intelligence<br>Computer Communication Networks<br>Arithmetic and Logic Structures<br>Computer and Information Systems Applications |
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| Nota di contenuto | Novel Models and Algorithms for Optimization -- Generative Adversarial Optimization -- Digital Model of Swarm Unit System with Interruptions -- Algorithm Integration Behavior for Discovering Group Membership Rules -- Success History Based Position Adaptation in Co-Operation of Biology Related Algorithms -- An Inter-Peer Communication Mechanism Based Water Cycle Algorithm -- Cooperation-based Gene Regulatory Network for Target Entrapment -- Population-based Metaheuristics for Planning Interval Training Sessions in Mountain Biking -- Comparison of Infrastructure and Adhoc Modes in Survivable Networks Enabled by Evolutionary Swarms -- Particle Swarm Optimization -- An Analysis of Control Parameter Importance in |

the Particle Swarm Optimization Algorithm -- Parameters Optimization Of Relay Self-Oscillations Sampled Data Controller Based On Particle Swarm Optimization -- Niching Particle Swarm Optimizer with Entropy-based Exploration Strategy for Global Optimization -- A Study on Designing an Aperiodic Antenna Array using Boolean PSO -- Building Energy Performance Optimization: A New Multi-Objective Particle Swarm Method -- A Novel PSOEDE Algorithm for Vehicle Scheduling Problem in Public Transportation -- Hierarchical Competition Framework for Particle Swarm Optimization -- Study on Method of Cutting Trajectory Planning Based on Improved Particle Swarm Optimization for Roadheader -- Variants and Parameter Investigations of Particle Swarm Optimisation for Solving Course Timetabling Problems -- Ant Colony Optimization -- Multiple Start Modifications Of Ant Colony Algorithm For Multiversion Software Design -- Ant Colony Algorithm for Cell Tracking Based on Gaussian Cloud Model -- Physarum-based Ant Colony Optimization for Graph Coloring Problem -- Ant Colony Algorithm Based Scheduling with Lot-sizing for Printed Circuit Board Assembly Shop -- Variable Speed Robot Navigation by an ACO Approach -- Solving Scheduling Problem in PCB Assembly and Its Optimization Using ACO -- Fireworks Algorithms and Brain Storm Optimization -- Accelerating Fireworks Algorithm with Weight-based Guiding Sparks -- Last-position Elimination-based Fireworks Algorithm for Function Optimization -- Planar Thinned Antenna Array Synthesis Using Modified Brain Storm Optimization -- Refrigerated Showcase Fault Detection by a Correntropy Based Artificial Neural Network Using Fast Brain Storm Optimization -- Swarm Intelligence Algorithms and Improvements -- Automatic Diet Generation by Artificial Bee Colony Algorithm -- A Multi-strategy Artificial Bee Colony Algorithm with Neighborhood Search -- Cuckoo Search Algorithm for Border Reconstruction of Medical Images with Rational Curves -- Quantum Behaved Fruit Fly Optimization Algorithm for Continuous Function Optimization Problems -- Parameter Estimation of a Nonlinear Hydrologic Model for Channel Flood Routing with The Bat Algorithm -- Bacterial Foraging Optimization with Memory and Clone Schemesfor Dynamic Environments -- Genetic Algorithm and Differential Evolution -- Evaluation of Genetic Algorithm and Hybrid Genetic Algorithm-Hill Climbing with Elitist for Lecturer University Timetabling Problem -- Federated Learning Assisted Interactive EDA with Dual Probabilistic Models for Personalized Search -- Second Order Differential Evolution for Constrained Optimization -- Computability and Stability for Hybrid Algorithms -- Swarm Robotics -- Stochastic Self-Organizing Control for Swarm Robot Systems -- Framework for Evaluation of Swarm-based Chemical Reaction Optimization Algorithm -- Mixed Game Pigeon-inspired Optimization for Unmanned Aircraft System Swarm Formation -- Research on UAV Task Assignment Method Based on Parental Genetic Algorithm -- A Comparison among the Denavit - Hartenberg, the Screw Theory, and the Iterative Methods to Solve Inverse Kinematics for Assistant Robot Arm.

Sommario/riassunto

The two-volume set of LNCS 11655 and 11656 constitutes the proceedings of the 10th International Conference on Advances in Swarm Intelligence, ICSI 2019, held in Chiang Mai, Thailand, in June 2019. The total of 82 papers presented in these volumes was carefully reviewed and selected from 179 submissions. The papers were organized in topical sections as follows: Part I: Novel methods and algorithms for optimization; particle swarm optimization; ant colony optimization; fireworks algorithms and brain storm optimization; swarm intelligence algorithms and improvements; genetic algorithm and differential evolution; swarm robotics. Part II: Multi-agent system;

multi-objective optimization; neural networks; machine learning; identification and recognition; social computing and knowledge graph; service quality and energy management.