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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 10386
Disciplina	006.3
Soggetti	Algorithms Numerical analysis Data mining Artificial intelligence Computer simulation Numerical Analysis Data Mining and Knowledge Discovery Artificial Intelligence Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Multi-objective Optimization -- A Parametric Study of Crossover Operators in Pareto-based Multiobjective Evolutionary Algorithm -- Non-dominated Sorting and Crowding Distance Based Multi-objective Chaotic Evolution -- On Performance Improvement based on Restart Meta-Heuristic Implementation for Solving Multi-Objective Optimization Problems -- Using multi-objective evolutionary algorithm to solve dynamic environment and economic dispatch with EVs -- Improved Interval Multi-objective Evolutionary Optimization Algorithm based on Directed Graph -- A Novel Linear Time Invariant Systems Order Reduction Approach based on Cooperative Multi-Objective Genetic Algorithm -- Solving Constrained Multi-objective Optimization

Problems with Evolutionary Algorithms -- Portfolio Optimization -- Multi-objective Comprehensive Learning Bacterial Foraging Optimization for Portfolio Optimization -- Metaheuristics for Portfolio Optimization -- Community Detection -- Community Detection under Exponential Random Graph Model: A Metaheuristic Approach -- An Enhanced Particle Swarm Optimization Based on Physarum Model for Community Detection -- The Design and Development of the Virtual Learning Community for Teaching Resources Personalized Recommendation -- The Effect of Event Sentiment on Product Recommendation in a Microblog Platform -- Multi-Agent Systems and Swarm Robotics -- Solar Irradiance Forecasting Based on the Multi-agent Adaptive Fuzzy Neuronet -- Passive Field Dynamics Method: an Advanced Physics-based Approach for Formation Control of Robot Swarm -- Adaptive Potential Fields Model for Solving Distributed Area Coverage Problem in Swarm Robotics -- Swarm-based Spreading Points -- A Survivability Enhanced Swarm Robotic Searching System Using Multi-Objective Particle Swarm Optimization -- Autonomous Coordinated Navigation of Virtual Swarm Bots in Dynamic Indoor Environments by Bat Algorithm -- Building Fractals with a Robot Swarm -- A Stigmergy Based Search Method for Swarm Robots -- Cooperative Control of Multi-Robot System Using Mobile Agent for Multi Source Localization -- Hybrid Optimization Algorithms and Applications -- Evolutionary Fuzzy Control of Three Robots Cooperatively Carrying an Object for Wall Following through the Fusion of Continuous ACO and PSO -- Optimal Operational Planning of Energy Plants by Multi-population Differential Evolutionary Particle Swarm Optimization -- A Review on Hybridization of Particle Swarm Optimization with Artificial Bee Colony -- Study on Greedy Search to Improve Simulated Annealing Algorithm for Large-scale Traveling Salesman Problem -- A Hybrid Swarm based Composition for Chinese Music -- Fuzzy and Swarm Approach -- Fuzzy Logic Controller Design for Tuning the Cooperation of Bio-Inspired Algorithms -- Making Capital Budgeting Decisions for Project Abandonment by Fuzzy Approach -- An Imputation for Missing Data Features based on Fuzzy Swarm Approach in Heart Disease Classification -- Clustering and Forecast -- Total Optimization of Smart City Using Initial Searching Points Generation Based on k-means Algorithm -- Clustering Analysis of ECG Data Streams -- A Novel Multi-cell Multi-Bernoulli Tracking Method Using Local Fractal Feature Estimation -- An Improved Locality Preserving Projection Method for Dimensionality Reduction with Hyperspectral Image -- Applying a Classification Model for Selecting Postgraduate Programs -- University Restaurant Sales Forecast Based on BP neural Network - In Shanghai Jiao Tong University Case -- Classification and Detection -- Swarm ANN/SVR-based modeling method for warfarin dose prediction in Chinese -- A Novel HPSOSA for Kernel Function Type and Parameter Optimization of SVR in Rainfall Forecasting -- An Improved Weighted ELM with Krill Herd Algorithm for Imbalanced Learning -- Fast Pseudo Random Forest using Discrimination Hyper-space -- A Fast Video Vehicle Detection Approach based on Improved Adaboost Classifier -- Detection of Repetitive Forex Chart Patterns -- Damage Estimation from Cues of Image Change -- Identifying Deceptive Review Comments with Rumor and Lie Theories -- Identifying Fake Review Comments for Hostel Industry -- Planning and Routing Problems -- Multi-UAV Cooperative Path Planning for Sensor Placement Using Cooperative Coevolving Genetic Strategy -- Optimal Micro-Siting Planning Considering Long-Term Electricity Demand -- A Hyper-Heuristic Method for UAV Search Planning -- An Efficient MVMO-SH Method for Optimal Capacitor Allocation in Electric Power Distribution Systems --

A Method of New Workers' Accurate Acceptance of Tasks Using Capable Sensing -- A Genetic Mission Planner for Solving Temporal Multi-agent Problems with Concurrent Tasks -- Reformulation and Metaheuristic for the Team Orienteering Arc Routing Problem -- Application of Smell Detection Agent Based Algorithm for Optimal Path Identification by SDN Controllers -- A Comparison of Heuristic Algorithms for Bus Dispatch -- Simulation and Application of Algorithms CVRP to Optimize the Transport of Minerals Metallic and Nonmetallic by Rail for Export -- Dialog System Applications -- User Intention Classification in An Entities Missed In-vehicle Dialog System -- An Exploratory Study of Factors Affecting Number of Fans on Facebook Based on Dialogic Theory -- Assembling Chinese-Mongolian Speech Corpus via Crowdsourcing -- Robotic Control -- Developing Robot Drumming Skill with Listening-Playing Loop -- Evaluation of Parameters of Transactions When Remote Robot Control -- Desktop Gestures Recognition for Human Computer Interaction -- Approach to the Diagnosis and Configuration of Servo Drives in Heterogeneous Machine Control Systems -- Other Applications -- Gravitational Search Algorithm in Recommendation Systems -- A Driver Model Based on Emotions -- A Binaural Signal Synthesis Approach for Fast Rendering of Moving Sound -- Semantic Evolutionary Visualization. .

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### Sommario/riassunto

The two-volume set of LNCS 10385 and 10386, constitutes the proceedings of the 8th International Conference on Advances in Swarm Intelligence, ICSI 2017, held in Fukuoka, Japan, in July/August 2017. The total of 133 papers presented in these volumes was carefully reviewed and selected from 267 submissions. The paper were organized in topical sections as follows: Part I: theories and models of swarm intelligence; novel swarm-based optimization algorithms; particle swarm optimization; applications of particle swarm optimization; ant colony optimization; artificial bee colony algorithms; genetic algorithms; differential evolution; fireworks algorithm; brain storm optimization algorithm; cuckoo search; and firefly algorithm. Part II: multi-objective optimization; portfolio optimization; community detection; multi-agent systems and swarm robotics; hybrid optimization algorithms and applications; fuzzy and swarm approach; clustering and forecast; classification and detection; planning and routing problems; dialog system applications; robotic control; and other applications. .

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