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Nota di contenuto	Evolutionary Optimisation -- Maximum Likelihood Estimation based on Random Subspace EDA: Application to Extrasolar Planet Detection -- Evolutionary Games Network Reconstruction by Memetic Algorithm with l1/2 Regularization -- A Simple Brain Storm Optimization Algorithm via Visualizing Confidence Intervals -- Simulated Annealing with a Time-slot Heuristic for Ready-mix Concrete Delivery -- A Sequential Learnable Evolutionary Algorithm with a Novel Knowledge Base Generation Method -- Using Parallel Strategies to Speed Up Pareto Local Search -- Differential evolution based hyper-heuristic for the

flexible job-shop scheduling problem with fuzzy processing time -- ACO-iRBA: A Hybrid Approach to TSPN with Overlapping Neighborhoods -- An Evolutionary Algorithm with A New Coding Scheme for Multi-objective Portfolio Optimization -- Exact Approaches for the Travelling Thief Problem -- On the Use of Dynamic Reference Points in HypE -- Multi-Factorial Evolutionary Algorithm Based on M2M Decomposition -- An Efficient Local Search Algorithm for Minimum Weighted Vertex Cover on Massive Graphs -- Interactive Genetic Algorithm with Group Intelligence Articulated Possibilistic Condition Preference Model -- GP-Based Approach to Comprehensive Quality-Aware Automated Semantic Web Service Composition -- Matrix Factorization based Benchmark Set Analysis: A Case Study on HyFlex.- Learning to Describe Collective Search Behavior of Evolutionary Algorithms in Solution Space -- Evolutionary Multiobjective Optimisation -- A Hierarchical Decomposition-based Evolutionary Many-objective Algorithm -- Adjusting Parallel Coordinates for Investigating Multi-Objective Search -- An Elite Archive-based MOEA/D Algorithm -- A constraint partitioning method based on minimax strategy for constrained multiobjective optimization problems -- A Fast Objective Reduction Algorithm based on Dominance Structure for Many Objective Optimization -- A memetic algorithm based on decomposition and extended search for Multi-Objective Capacitated Arc Routing Problem -- Improvement of reference points for decomposition based multi-objective evolutionary algorithms -- Multi-Objective Evolutionary Optimization for Autonomous Intersection Management -- Study of an adaptive control of aggregate functions in MOEA/D -- Use of Inverted Triangular Weight Vectors in Decomposition-Based Many-Objective Algorithms -- Surrogate Model Assisted Multi-Objective Differential Evolution Algorithm for Performance Optimization at Software Architecture Level -- Normalized Ranking Based Particle Swarm Optimizer for Many Objective Optimization -- Evolutionary Machine Learning -- A Study on Pre-Training Deep Neural Networks Using Particle Swarm Optimisation -- Simple Linkage Identification Using Genetic Clustering -- Learning of Sparse Fuzzy Cognitive Maps Using Evolutionary Algorithm with Lasso Initialization -- A Bayesian Restarting Approach to Algorithm Selection -- Evolutionary Learning based Iterated Local Search for Google Machine Reassignment Problems -- Geometric Semantic Genetic Programming with Perpendicular Crossover and Random Segment Mutation for Symbolic Regression -- Constrained Dimensionally Aware Genetic Programming for Evolving Interpretable Dispatching Rules in Dynamic Job Shop Scheduling -- Visualisation and Optimisation of Learning Classifier Systems for Multiple Domain Learning -- Adaptive Memetic Algorithm Based Evolutionary Multi-tasking Single-objective Optimization -- Effective Policy Gradient Search for Reinforcement Learning through NEAT based Feature Extraction -- Generalized Hybrid Evolutionary Algorithm Framework with a Mutation Operator Requiring no Adaptation -- A Multitree Genetic Programming Representation for Automatically Evolving Texture Image Descriptors -- Theoretical Developments -- Running-time Analysis of Particle Swarm Optimization with a Single Particle Based on Average Gain -- Evolutionary Computation Theory for Remote Sensing Image Clustering: A Survey -- Feature Selection and Dimensionality Reduction -- New Representations in Genetic Programming for Feature Construction in k-means Clustering -- Transductive Transfer Learning in Genetic Programming for Document Classification -- Automatic Feature Construction for Network Intrusion Detection -- A Feature Subset Evaluation Method based on Multi-objective Optimization -- A Hybrid

GA-GP Method for Feature Reduction in Classification -- Kernel Construction and Feature Subset Selection in Support Vector Machines -- KW-Race and Fast KW-Race: Racing-based Frameworks for Tuning Parameters of Evolutionary Algorithms on Black-box Optimization Problems -- Dynamic and Uncertain Environments -- A Probabilistic Learning Algorithm for the Shortest Path Problem -- A first-order difference model-based evolutionary dynamic multiobjective optimization -- A Construction Graph-based Evolutionary Algorithm For Traveling Salesman Problem -- Real-world Applications -- Bi-objective water cycle algorithm for solving remanufacturing rescheduling problem -- A New Method for Constructing Ensemble Classifier in Privacy-Preserving Distributed Environment -- Greedy based Pareto Local Search for Bi-objective Robust Airport Gate Assignment Problem -- Multi-neighbourhood Great Deluge for Google Machine Reassignment Problem -- Evolutionary Optimization of Airport Security Inspection Allocation -- Evolving Directional Changes Trading Strategies with a New Event-based Indicator -- Constrained Differential Evolution for Cost and Energy Efficiency Optimization in 5G Wireless Networks -- Evolutionary Computation to Determine Product Builds in Open Pit Mining -- An Evolutionary Vulnerability Detection Method for HFSWR Ship Tracking Algorithm -- Genetic Programming for Lifetime Maximization in Wireless Sensor Networks with Mobile Sink -- Unsupervised Change Detection for Remote Sensing Images Based on Principal Component Analysis and Differential Evolution -- Parallel particle swarm optimization for community detection in large-scale networks -- Multi-objective memetic algorithm based on three-dimentional request prediction for dynamic pickup-and-delivery problem with time windows -- Optimization of Spectrum-Energy Efficiency in Heterogeneous Communication Network -- Large scale WSN deployment based on an improved cooperative coevolutionary PSO with global differential grouping -- Adaptive Systems -- Learning Fuzzy Cognitive Maps Using a Genetic Algorithm with Decision-making Trial and Evaluation -- Dynamic and Adaptive Threshold for DNN Compression from Scratch -- Cooperative Design of Two Level Fuzzy Logic Controllers for Medium Access Control in Wireless Body Area Networks -- Statistical Analysis of Social Coding in GitHub Hypernetwork -- Swarm Intelligence -- Sparse Restricted Boltzmann Machine Based on Multiobjective Optimization -- A Knee Point Driven Particle Swarm Optimization Algorithm for Sparse Reconstruction -- Multivariant optimization algorithm with bimodal-gauss -- Enhanced Comprehensive Learning Particle Swarm Optimization with Exemplar Evolution -- Recommending PSO variants using meta-learning framework for global optimization -- Augmented Brain Storm Optimization with Mutation Strategies -- A new precedence-based Ant Colony Optimization for permutation problems -- A general swarm intelligence model for continuous function optimization -- A Hybrid Particle Swarm Optimization for High-Dimensional Dynamic Optimization -- Visualizing the Search Dynamics in a High-dimensional Space for a Particle Swarm Optimizer -- Particle Swarm Optimization with Winning Score Assignment for Multi-objective Portfolio Optimization -- Conservatism and Adventurism in Particle Swarm Optimization Algorithm -- A competitive social spider optimization with learning strategy for PID controller optimization. .

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Simulated Evolution and Learning, SEAL 2017, held in Shenzhen, China, in November 2017. The 85 papers presented in this volume were carefully reviewed and selected from 145 submissions. They were organized in topical sections named:

evolutionary optimisation; evolutionary multiobjective optimisation; evolutionary machine learning; theoretical developments; feature selection and dimensionality reduction; dynamic and uncertain environments; real-world applications; adaptive systems; and swarm intelligence.