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Application of Multi-Objective Differential Evolution Algorithm in Space Rendezvous -- The Multi-objective ITO Algorithms -- An Evolutionary Algorithm for Dynamic Multi-Objective TSP -- The Construction of Dynamic Multi-objective Optimization Test Functions -- An Effective Dynamical Multi-objective Evolutionary Algorithm for Solving Optimization Problems with High Dimensional Objective Space -- Evolutionary Algorithms and Operators -- Operator Adaptation in Evolutionary Programming -- A Comparison of GAs Using Penalizing Infeasible Solutions and Repairing Infeasible Solutions on Average Capacity Knapsack -- About the Limit Behaviors of the Transition Operators Associated with EAs -- Differential Evolution Algorithm Based on Simulated Annealing -- A Novel Memetic Algorithm for Global Optimization Based on PSO and SFLA -- Building on Success in Genetic Programming: Adaptive Variation and Developmental Evaluation -- A Granular Evolutionary Algorithm Based on Cultural Evolution -- A Self-adaptive Mutations with Multi-parent Crossover Evolutionary Algorithm for Solving Function Optimization Problems -- Evolutionary Optimization -- A Quantum Genetic Simulated Annealing Algorithm for Task Scheduling -- Optimized Research of Resource Constrained Project Scheduling Problem Based on Genetic Algorithms -- An Evolutionary Agent System for Mathematical Programming -- Agent-Based Coding GA and Application to Combat Modeling and Simulation -- A Two-Stage Genetic Algorithm for the Multi-multicast Routing -- A Novel Lower-Dimensional-Search Algorithm for Numerical Optimization -- Performance Evaluation of Three Kinds of Quantum Optimization -- An Efficient Multilevel Algorithm for Inverse Scattering Problem -- Evolutionary Learning -- A New Evolutionary Neural Network and Its Application for the Extraction of Vegetation Anomalies -- Dynamic System Evolutionary Modeling: The Case of SARS in Beijing -- An Tableau Automated Theorem Proving Method Using Logical Reinforcement Learning -- Gene Expression Programming with DAG Chromosome -- Neural Networks -- Zhang Neural Network for Online Solution of Time-Varying Sylvester Equation -- A Global Optimization Algorithm Based on Novel Interval Analysis for Training Neural Networks -- Approximate Interpolation by Neural Networks with the Inverse Multiquadric Functions -- Decomposition Mixed Pixel of Remote Sensing Image Based on Tray Neural Network Model -- A Novel Kernel Clustering Algorithm Based Selective Neural Network Ensemble Model for Economic Forecasting -- An Evolutionary Neural Network Based Tracking Control of a Human Arm in the Sagittal Plane -- Ant Colony, Particle Swarm Optimization and Artificial Immune Systems -- New Ant Colony Optimization for Optimum Multiuser Detection Problem in DS-CDMA Systems -- A Fast Particle Swarm Optimization Algorithm with Cauchy Mutation and Natural Selection Strategy -- Fast Multi-swarm Optimization with Cauchy Mutation and Crossover Operation -- Particle Swarm Optimization Using Lévy Probability Distribution -- Re-diversification Based Particle Swarm Algorithm with Cauchy Mutation -- An Improved Multi-Objective Particle Swarm Optimization Algorithm -- Dynamic Population Size Based Particle Swarm Optimization -- An Improved ParticleSwarm Optimization for Data Streams Scheduling on Heterogeneous Cluster -- A Steepest Descent Evolution Immune Algorithm for Multimodal Function Optimization -- A Hybrid Clonal Selection Algorithm Based on Multi-parent Crossover and Chaos Search -- Pattern Recognition -- Spatial Clustering Method Based on Cloud Model and Data Field -- Diversity Analysis of Information Pattern and Information Clustering Algorithm -- Instant Message Clustering Based on Extended Vector Space Model -- Continuous K-Nearest Neighbor Queries for Moving Objects --

Texture Classification of Aerial Image Based on Bayesian Networks with Hidden Nodes -- Human Motion Recognition Based on Hidden Markov Models -- Data Mining -- Parameter Setting for Evolutionary Latent Class Clustering -- Automatic Data Mining by Asynchronous Parallel Evolutionary Algorithms -- Texture Image Retrieval Based on Contourlet Coefficient Modeling with Generalized Gaussian Distribution -- Heterogeneous Spatial Data Mining Based on Grid -- A Clustering Scheme for Large High-Dimensional Document Datasets -- Intelligent Systems -- Self-tuning PID Control of Hydro-turbine Governor Based on Genetic Neural Networks -- Adaptive Rate Selection Scheme Based on Intelligent Learning Algorithm in Wireless LANs -- The Research on Generic Project Risk Element Network Transmission Parallel Computing Model -- On the Performance of Metamodel Assisted MOEA/D -- A High Precision OGC Web Map Service Retrieval Based on Capability Aware Spatial Search Engine -- Analysis of the Performance of Balance of Digital Multi-value Based on Chebyshev Chaotic Sequence -- The Transformation Between Fuzzy Cognitive Maps and a Class of Simplified Dynamical Cognitive Networks -- Evolutionary Design -- Cryptanalysis of Two-Round DES Using Genetic Algorithms -- A Novel Artistic Image Generation Technique: Making Relief Effects Through Evolution -- Data Genome: An Abstract Model for Data Evolution -- Intrinsic Evolution of Frequency Splitter with a New Analog EHW Platform -- Towards the Role of Heuristic Knowledge in EA -- Using Instruction Matrix Based Genetic Programming to Evolve Programs -- Fuzzy Pattern Rule Induction for Information Extraction -- An Orthogonal and Model Based Multiobjective Genetic Algorithm for LEO Regional Satellite Constellation Optimization.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second International Symposium on Intelligence Computation and Applications, ISICA 2007, held in Wuhan, China, in September 2007. The 71 revised full papers cover such topics as evolutionary computation, evolutionary learning, neural networks, swarms, pattern recognition, and data mining.