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Nota di contenuto	Self-adaptive Differential Evolution with Modified Multi-Trajectory Search for CEC'2010 Large Scale Optimization -- Differential Evolution Based Ascent Phase Trajectory Optimization for a Hypersonic Vehicle -- Dynamic Grouping Crowding Differential Evolution with Ensemble of Parameters for Multi-modal Optimization -- Empirical Study on Migration Topologies and Migration Policies for Island Based

Distributed Differential Evolution Variants -- Differential Evolution Based Fuzzy Clustering -- A Population Adaptive Differential Evolution Strategy to Light Configuration Optimization of Photometric Stereo -- Solving Multi Objective Stochastic Programming Problems Using Differential Evolution -- Multi Sensor Fusion Using Fitness Adaptive Differential Evolution -- Differential Evolution Algorithm with Ensemble of Parameters and Mutation and Crossover Strategies -- Design of Robust Optimal Fixed Structure Controller Using Self Adaptive Differential Evolution -- Electromagnetic Antenna Configuration Optimization Using Fitness Adaptive Differential Evolution -- Analyzing the Explorative Power of Differential Evolution Variants on Different Classes of Problems -- A Self Adaptive Differential Evolution Algorithm for Global Optimization -- Optimization for Workspace Volume of 3R Robot Manipulator Using Modified Differential Evolution -- Adaptive Differential Evolution with p-Best Crossover for Continuous Global Optimization -- A New Particle Swarm Optimization Algorithm for Dynamic Environments -- Power Mutation Embedded Modified PSO for Global Optimization Problems -- PSO Advances and Application to Inverse Problems -- Adaptive and Accelerated Exploration Particle Swarm Optimizer (AAEPSO) for Solving Constrained Multiobjective Optimization Problems -- Expedite Particle Swarm Optimization Algorithm (EPSO) for Optimization of MSA -- Covariance Matrix Adapted Evolution Strategy Based Design of Mixed H₂/H_∞ PID Controller -- Towards a Link between Knee Solutions and Preferred Solution Methodologies -- A Relation-Based Model for Convergence Analysis of Evolutionary Algorithm -- Neural Meta-Memes Framework for Combinatorial Optimization -- An Improved Evolutionary Programming with Voting and Elitist Dispersal Scheme -- Heuristic Algorithms for the L(2,1)-Labeling Problem -- Runtime Analysis of Evolutionary Programming Based on Cauchy Mutation -- Best Hiding Capacity Scheme for Variable Length Messages Using Particle Swarm Optimization -- Ant Colony Optimization for Markowitz Mean-Variance Portfolio Model -- Hybrid PSO Based Integration of Multiple Representations of Thermal Hand Vein Patterns -- Detection and Length Estimation of Linear Scratch on Solid Surfaces Using an Angle Constrained Ant Colony Technique -- An Intelligence Model with Max-Min Strategy for Constrained Evolutionary Optimization -- Parallel Ant-Miner (PAM) on High Performance Clusters -- A Software Tool for Data Clustering Using Particle Swarm Optimization -- An ACO Approach to Job Scheduling in Grid Environment -- Runtime Analysis of (1+1) Evolutionary Algorithm for a TSP Instance -- An Evolutionary Approach to Intelligent Planning -- Substitute Domination Relation for High Objective Number Optimization -- Discrete Variables Function Optimization Using Accelerated Biogeography-Based Optimization -- A Genetic Algorithm Based Augmented Lagrangian Method for Computationally Fast Constrained Optimization -- Evolutionary Programming Improved by an Individual Random Difference Mutation -- Taguchi Method Based Parametric Study of Generalized Generation Gap Genetic Algorithm Model -- EBFS-ICA: An Efficient Algorithm for CT-MRI Image Fusion -- Adaptive Nonlinear Signal Approximation Using Bacterial Foraging Strategy -- Swarm Intelligence for Optimizing Hybridized Smoothing Filter in Image Edge Enhancement -- A Hybrid GA-Adaptive Particle Swarm Optimization Based Tuning of Unscented Kalman Filter for Harmonic Estimation -- Using Social Emotional Optimization Algorithm to Direct Orbits of Chaotic Systems -- A Hybrid ANN-BFOA Approach for Optimization of FDM Process Parameters -- Bio Inspired Swarm Algorithm for Tumor Detection in Digital Mammogram -- A Hybrid Particle Swarm with Differential Evolution

Operator Approach (DEPSO) for Linear Array Synthesis -- Sensor Deployment in 3-D Terrain Using Artificial Bee Colony Algorithm -- Novel Particle Swarm Optimization Based Synthesis of Concentric Circular Antenna Array for Broadside Radiation -- A Particle Swarm Optimization Algorithm for Optimal Operating Parameters of VMI Systems in a Two-Echelon Supply Chain -- Enhanced Memetic Algorithm for Task Scheduling -- Quadratic Approximation PSO for Economic Dispatch Problems with Valve-Point Effects -- Fuzzified PSO Algorithm for OPF with FACTS Devices in Interconnected Power Systems -- Co-ordinated Design of AVR-PSS Using Multi Objective Genetic Algorithm -- A Genetic Algorithm Approach for the Multi-commodity, Multi-period Distribution Planning in a Supply Chain Network Design -- Particle Swarm Optimization with Watts-Strogatz Model -- Multi-objective Evolutionary Algorithms to Solve Coverage and Lifetime Optimization Problem in Wireless Sensor Networks -- Offline Parameter Estimation of Induction Motor Using a Meta Heuristic Algorithm -- Performance Evaluation of Particle Swarm Optimization Based Active Noise Control Algorithm -- Solution to Non-convex Electric Power Dispatch Problem Using Seeker Optimization Algorithm -- Swarm Intelligence Algorithm for Induction Motor Field Efficiency Evaluation -- Artificial Bee Colony Algorithm for Transient Performance Augmentation of Grid Connected Distributed Generation -- Performance Comparison of Attribute Set Reduction Algorithms in Stock Price Prediction - A Case Study on Indian Stock Data -- Dimensionality Reduction and Optimum Feature Selection in Designing Efficient Classifiers -- Social Emotional Optimization Algorithm for Nonlinear Constrained Optimization Problems -- Multi-Objective Optimal Design of Switch Reluctance Motors Using Adaptive Genetic Algorithm -- Genetic Algorithm Approaches to Solve RWA Problem in WDM Optical Networks -- Multi-objective Performance Optimization of Thermo-Electric Coolers Using Dimensional Structural Parameters -- An Artificial Physics Optimization Algorithm for Multi-Objective Problems Based on Virtual Force Sorting Proceedings -- Effective Document Clustering with Particle Swarm Optimization -- A Hybrid Differential Invasive Weed Algorithm for Congestion Management -- Security Constrained Optimal Power Flow with FACTS Devices Using Modified Particle Swarm Optimization -- Tuning of PID Controller Using Internal Model Control with the Filter Constant Optimized Using Bee Colony Optimization Technique -- An Efficient Estimation of Distribution Algorithm for Job Shop Scheduling Problem -- Semantic Web Service Discovery Algorithm Based on Swarm System -- Stochastic Ranking Particle Swarm Optimization for Constrained Engineering Design Problems -- A New Improved Particle Swarm Optimization Technique for Daily Economic Generation Scheduling of Cascaded Hydrothermal Systems -- Improved Real Quantum Evolutionary Algorithm for Optimum Economic Load Dispatch with Non-convex Loads -- Linear Array Geometry Synthesis with Minimum Side Lobe Level and Null Control Using Dynamic Multi-Swarm Particle Swarm Optimizer with Local Search -- Constraint Handling in Transmission Network Expansion Planning -- A Novel Multi-objective Formulation for Hydrothermal Power Scheduling Based on Reservoir End Volume Relaxation -- Particle Swarm Optimization and Varying Chemotactic Step-Size Bacterial Foraging Optimization Algorithms Based Dynamic Economic Dispatch with Non-smooth Fuel Cost Functions -- Hydrothermal Commitment Scheduling by Tabu Search Method with Cooling-Banking Constraints.

during December 16— 18, 2010 at SRM University, Chennai, in India. SEMCCO 2010 marked the beginning of a prestigious international conference series that aims at bringing together researchers from academia and industry to report and review the latest progress in the cutting-edge research on swarm, evolutionary, and memetic computing, to explore new application areas, to design new bio-inspired algorithms for solving specific hard optimization problems, and finally to create awareness on these domains to a wider audience of practitioners. SEMCCO 2010 received 225 paper submissions from 20 countries across the globe. After a rigorous peer-review process involving 610 reviews in total, 90 full-length articles were accepted for oral presentation at the conference. This corresponds to an acceptance rate of 40% and is intended for maintaining the high standards of the conference proceedings. The papers included in this LNCS volume cover a wide range of topics in swarm, evolutionary, and memetic computing algorithms and their real-world applications in problems selected from diverse domains of science and engineering.
