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Nota di contenuto	A Populated Iterated Greedy Algorithm with Inver-Over Operator for Traveling Salesman Problem -- Meta-modeling and Optimization for Varying Dimensional Search Space -- A General Variable Neighborhood Search Algorithm for the No-Idle Permutation Flowshop Scheduling Problem -- Design of Non-uniformly Weighted and Spaced Circular Antenna Arrays with Reduced Side Lobe Level and First Null Beamwidth Using Seeker Optimization Algorithm -- Covariance Matrix Adaptation Evolutionary Strategy for the Solution of Transformer Design Optimization Problem -- Load Information Based Priority Dependant

Heuristic for Manpower Scheduling Problem in Remanufacturing -- A Tree Based Chemical Reaction Optimization Algorithm for QoS Multicast Routing -- A New Improved Knowledge Based Cultural Algorithm for Reactive Power Planning -- BFO-RLDA: A New Classification Scheme for Face Images Using Probabilistic Reasoning Model -- Optimal Stable IIR Low Pass Filter Design Using Modified Firefly Algorithm -- Firefly Algorithm with Various Randomization Parameters: An Analysis -- Reducing Power Losses in Power System by Using Self Adaptive Firefly Algorithm -- A Soft-computing Based Approach to Economic and Environmental Analysis of an Autonomous Power Delivery System Utilizing Hybrid Solar – Diesel – Electrochemical Generation -- Parameter Adaptation in Differential Evolution Based on Diversity Control -- Data Clustering with Differential Evolution Incorporating Macromutations -- Improved Adaptive Differential Evolution Algorithm with External Archive -- Fuzzy Clustering of Image Pixels with a Fitness-Based Adaptive Differential Evolution -- Performance Study of a New Modified Differential Evolution Technique Applied for Optimal Placement and Sizing of Distributed Generation -- An Approach to Solve Multi-criteria Supplier Selection While Considering Environmental Aspects Using Differential Evolution -- Comparison between Differential Evolution Algorithm and Particle Swarm Optimization for Market Clearing with Voltage Dependent Load Models -- Multipopulation-Based Differential Evolution with Speciation-Based Response to Dynamic Environments -- A Modified Differential Evolution for Symbol Detection in MIMO-OFDM System -- Levy Flight Based Local Search in Differential Evolution -- An Adaptive Differential Evolution Based Fuzzy Approach for Edge Detection in Color and Grayscale Images -- A Differential Evolution Approach to Multi-level Image Thresholding Using Type II Fuzzy Sets -- Differential Evolution with Controlled Annihilation and Regeneration of Individuals and a Novel Mutation Scheme -- Differential Evolution and Offspring Repair Method Based Dynamic Constrained Optimization -- Adaptive Differential Evolution with Difference Mean Based Perturbation for Practical Engineering Optimization Problems -- Transmission Line Management Using Multi-objective Evolutionary Algorithm -- Normalized Normal Constraint Algorithm Based Multi-Objective Optimal Tuning of Decentralised PI Controller of Nonlinear Multivariable Process – Coal Gasifier -- Simulated Annealing Based Real Power Loss Minimization Aspect for a Large Power Network -- Hybrid Artificial Bee Colony Algorithm and Simulated Annealing Algorithm For Combined Economic and Emission Dispatch Including Valve Point Effect -- Spectrum Allocation in Cognitive Radio Networks Using Firefly Algorithm -- Bi-objective Optimization in Identical Parallel Machine Scheduling Problem -- Teaching-Learning-Based Optimization Algorithm in Dynamic Environments -- A Novel Ant Colony Optimization Algorithm for the Vehicle Routing Problem -- Implementation of Fractional Order PID Controller for Three Interacting Tank Process Optimally Tuned Using Bee Colony Optimization -- Artificial Bee Colony-Based Approach for Optimal Capacitor Placement in Distribution Networks -- Grammatical Bee Colony -- Artificial Bee Colony Algorithm for Probabilistic Target Q-coverage in Wireless Sensor Networks -- Chaos Synchronization in Commensurate Fractional Order Lu System via Optimal PID Controller with Artificial Bee Colony Algorithm -- Cooperative Micro Artificial Bee Colony Algorithm for Large Scale Global Optimization Problems -- Improvement in Genetic Algorithm with Genetic Operator Combination (GOC) and Immigrant Strategies for Multicast Routing in Ad Hoc Networks -- Ensemble of Dying Strategies Based Multi-objective Genetic Algorithm -- Effect of Photovoltaic and Wind Power Variations

in Distribution System Reconfiguration for Loss Reduction Using Ant Colony Algorithm -- Inter-species Cuckoo Search via Different Levy Flights -- Cuckoo Search Algorithm for the Mobile Robot Navigation -- Automatic Generation Control of Multi-area Power System Using Gravitational Search Algorithm -- Design and Simulation of FIR High Pass Filter Using Gravitational Search Algorithm -- Solution of Optimal Reactive Power Dispatch by an Opposition-Based Gravitational Search Algorithm -- A Novel Swarm Intelligence Based Gravitational Search Algorithm for Combined Economic and Emission Dispatch Problems -- Particle Swarm Optimization Based Optimal Reliability Design of Composite Electric Power System Using Non-sequential Monte Carlo Sampling and Generalized Regression Neural Network -- A Bacteria Foraging-Particle Swarm Optimization Algorithm for QoS Multicast Routing -- Performance Evaluation of Particle Swarm Optimization Algorithm for Optimal Design of Belt Pulley System -- Optimal Sizing for Stand-Alone Hybrid PV-WIND Power Supply System Using PSO -- A Peer-to-Peer Dynamic Single Objective Particle Swarm Optimizer -- Aligned PSO for Optimization of Image Processing Methods Applied to the Face Recognition Problem -- Optimal Operation Management of Transmission System with Fuel Cell Power Plant Using PSO -- PID Tuning and Control for 2-DOF Helicopter Using Particle Swarm Optimization -- Optimal Location and Parameter Selection of Thyristor Controlled Series Capacitor Using Particle Swarm Optimization -- A New Particle Swarm Optimization with Population Restructuring Based Multiple Population Strategy -- Small Signal Stability Constrained Optimal Power Flow Using Swarm Based Algorithm -- Online Voltage Stability Assessment of Power System by Comparing Voltage Stability Indices and Extreme Learning Machine -- A Peer-to-Peer Particle Swarm Optimizer for Multi-objective Functions -- A Novel Improved Discrete ABC Algorithm for Manpower Scheduling Problem in Remanufacturing -- Optimal Partial-Retuning of Decentralised PI Controller of Coal Gasifier Using Bat Algorithm -- Optimal Velocity Requirements for Earth to Venus Mission Using Taboo Evolutionary Programming.

Sommario/riassunto

The two-volume set LNCS 8297 and LNCS 8298 constitutes the proceedings of the 4th International Conference on Swarm, Evolutionary and Memetic Computing, SEMCCO 2013, held in Chennai, India, in December 2013. The total of 123 papers presented in this volume set was carefully reviewed and selected for inclusion in the proceedings. They cover cutting-edge research on swarm, evolutionary and memetic computing, neural and fuzzy computing and its application.