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Nota di contenuto	Critical Issues in Model-Based Surrogate Functions in Estimation of Distribution Algorithms -- Sandholm Algorithm with K-means Clustering Approach for Multi-robot Task Allocation -- Genetic Programming for Modeling Vibratory Finishing Process: Role of Experimental Designs and Fitness Functions -- Non-fragile Robust PI Controller Design Using Co-variance Matrix Adaptation Evolutionary Strategy -- Meta Heuristic Approaches for Circular Open Dimension Problem -- Protein Function Prediction Using Adaptive Swarm Based Algorithm -- Reduction of Bullwhip Effect in Supply Chain through Improved Forecasting Method: An Integrated DWT and SVM Approach

-- An Ant Colony Optimization Algorithm for the Min-Degree Constrained Minimum Spanning Tree Problem -- Multiobjective Differential Evolution Algorithm Using Binary Encoded Data in Selecting Views for Materializing in Data Warehouse -- Robust Protective Relay Setting and Coordination Using Modified Differential Evolution Considering Different Network Topologies -- Real-Coded Genetic Algorithm and Fuzzy Logic Approach for Real-Time Load-Tracking Performance of an Autonomous Power System -- Short Term Load Forecasting (STLF) Using Generalized Neural Network (GNN) Trained with Adaptive GA -- Gene Selection Using Multi-objective Genetic Algorithm Integrating Cellular Automata and Rough Set Theory -- Fusion at Features Level in CBIR System Using Genetic Algorithm -- New Bio-inspired Meta-Heuristics - Green Herons Optimization Algorithm - for Optimization of Travelling Salesman Problem and Road Network -- A Comparative Analysis of Results of Data Clustering with Variants of Particle Swarm Optimization -- Hybrid Particle Swarm Optimization Technique for Protein Structure Prediction Using 2D Off-Lattice Model -- Software Effort Estimation Using Functional Link Neural Networks Optimized by Improved Particle Swarm Optimization -- Improved Feature Selection Based on Particle Swarm Optimization for Liver Disease Diagnosis -- Groundwater System Modeling for Pollution Source Identification Using Artificial Neural Network -- Stochastic Analysis for Forecasting the MW Load of Plug-In Electric Vehicles -- Biometric Based Personal Authentication Using Eye Movement Tracking -- Accelerated Simulation of Membrane Computing to Solve the N-queens Problem on Multi-core -- A Genetic Algorithm Optimized Artificial Neural Network for the Segmentation of MR Images in Frontotemporal Dementia -- Intelligent Computation and Kinematics of 4-DOF SCARA Manipulator Using ANN and ANFIS -- Hybrid Neuro-Fuzzy Network Identification for Autonomous Underwater Vehicles -- Prediction of Protein Structural Class by Functional Link Artificial Neural Network Using Hybrid Feature Extraction Method -- ANN Modeling of a Steelmaking Process -- Crop Yield Forecasting Using Neural Networks -- Non-linear Dynamic System Identification Using FLLWNN with Novel Learning Method -- Analysis of Transient Stability Based STATCOM for Neural Network Controller in Cascaded Multilevel Inverter -- Emotion Recognition System by Gesture Analysis Using Fuzzy Sets -- Automatic Eye Detection in Face Images for Unconstrained Biometrics Using Genetic Programming -- Neural Network Based Gesture Recognition for Elderly Health Care Using Kinect Sensor -- City Block Distance for Identification of Co-expressed MicroRNAs -- Extreme Learning Machine Approach for On-Line Voltage Stability Assessment -- Quadratic Fuzzy Bilevel Chance Constrained Programming with Parameters Following Weibull Distribution -- Message Passing Methods for Estimation of Distribution Algorithms Based on Markov Networks -- Application of Neural Networks to Automatic Load Frequency Control -- RNN Based Solar Radiation Forecasting Using Adaptive Learning Rate -- Energy Efficient Aggregation in Wireless Sensor Networks for Multiple Base Stations -- An Intelligent Method for Handoff Decision in Next Generation Wireless Network -- Path Planning for the Autonomous Underwater Vehicle -- A Game Theoretic Approach for Reliable Power Supply in Islanded DG Grids -- Classification of Day-Ahead Deregulated Electricity Market Prices Using DCT-CFNN -- Multi-Objective Approach for Protein Structure Prediction -- Clustering Based Analysis of Spirometric Data Using Principal Component Analysis and Self Organizing Map -- Feature Selection of Motor Imagery EEG Signals Using Firefly Temporal Difference Q-Learning and Support Vector Machine -- Optimal Build-or-Buy Decision for Component Selection of

Application Package Software -- Text and Data Mining to Detect Phishing Websites and Spam Emails -- Intelligent Fault Tracking by an Adaptive Fuzzy Predictor and a Fractional Controller of Electromechanical System – A Hybrid Approach -- Differential Evolution and Bacterial Foraging Optimization Based Dynamic Economic Dispatch with Non-smooth Fuel Cost Functions -- Permutation Flowshop Scheduling Problem Using Classical NEH, ILS-ESP Operator -- Analysis of Human Retinal Vasculature for Content Based Image Retrieval Applications -- Activity Recognition Using Multiple Features, Subspaces and Classifiers -- Advanced Optimization by Progressive Mapping Search Method of PSO and Neural Network -- Optimal Placement of DG in Distribution System Using Genetic Algorithm -- Intelligent Controllers in Path Tracking of a Manipulator with Bounded Disturbance Torque -- Multiscale and Multilevel Wavelet Analysis of Mammogram Using Complex Neural Network.

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 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.