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Nota di contenuto	Applications of Computational Intelligence -- A New Fault Detection Method of Induction Motor -- A Method to Identify Damage of Roof Truss under Static Load Using Genetic Algorithm -- Non-linear Improvement on Hydraulic Pump and Motor Models Based on Parameter Optimization Algorithms -- Diurnal and Seasonal Changes in Stem Water Content of Single Yulan Magmolia Tree -- Reliability Analysis on Wing Structures under the Gust Load -- Prediction Interval on Spacecraft Telemetry Data Based on Modified Block Bootstrap Method -- Application of Sleep Scheduling Mechanism in Three-Dimensional Environment -- Dimensions of E-commerce Benefits as Perceived by Businesses -- Nonlinear Analysis of a Hybrid Optimal Velocity Model with Relative Velocity for Traffic Flow -- Biomedical Informatics and Computation -- Insertion Force of Acupuncture for a Computer Training System -- Classifying Motor Imagery EEG Signals by Iterative Channel Elimination according to Compound Weight -- Automatic Reference Selection for Quantitative EEG Component Interpretation: Cross Spectrum Analysis Based on Bipolar EEG -- Mixed Numerical Integral Algorithm for Deformation Simulation of Soft Tissues --

Multiple Sequence Alignment Based on ABC_SA -- TDMA Grouping Based RFID Network Planning Using Hybrid Differential Evolution Algorithm -- An Improved PSO-SVM Approach for Multi-faults Diagnosis of Satellite Reaction Wheel -- Research of Long-Term Runoff Forecast Based on Support Vector Machine Method -- Fuzzy Computation -- Application of Latin Hypercube Sampling in the Immune Genetic Algorithm for Solving the Maximum Clique Problem -- The Selection of Sales Managers in Enterprises by Fuzzy Multi-criteria Decision-Making -- Towards the Impact of the Random Sequence on Genetic Algorithms -- A New Pairwise Comparison Based Method of Ranking LR-fuzzy Numbers -- A Fuzzy Assessment Model for Traffic Safety in City: A Case Study in China -- Genetic Algorithms -- An Optimization Model of Site Batch Plant Layout for Infrastructure Project -- Damping Search Algorithm for Multi-objective Optimization Problems -- Pruned Genetic Algorithm -- Immune Computation -- A New Computational Algorithm for Solving Periodic Sevendiagonal Linear Systems -- Local Weighted LS-SVM Online Modeling and the Application in Continuous Processes -- Information Security -- A Cellular Automata Based Crowd Behavior Model -- A Novel Watermark Technique for Relational Databases -- Intelligent Agents and Systems -- A Cell-Phone Based Brain-Computer Interface for Communication in Daily Life -- DCISL: Dynamic Control Integration Script Language -- Mapping Multi-view Architecture Products to Multi-agent Software Architecture Style -- Nature Computation -- ID-Based Authenticated Multi-group Keys Agreement Scheme for Computing Grid -- Dynamic Path Planning of Mobile Robots Based on ABC Algorithm -- Urban Arterial Traffic Coordination Control System -- A Semiparametric Regression Ensemble Model for Rainfall Forecasting Based on RBF Neural Network -- Particle Swarm Optimization -- A Modified Particle Swarm Optimizer with a Novel Operator -- An AntiCentroid-oriented Particle Swarm Algorithm for Numerical Optimization -- Comparison of Four Decomposition Algorithms for Multidisciplinary Design Optimization -- Multilevel Image Thresholding Selection Using the Artificial Bee Colony Algorithm -- Automatic Rule Tuning of a Fuzzy Logic Controller Using Particle Swarm Optimisation -- An Efficient Differential Evolution Algorithm with Approximate Fitness Functions Using Neural Networks -- Probabilistic Reasoning -- Evaluate the Quality of Foundational Software Platform by Bayesian Network -- Triangle Fuzzy Number Intuitionistic Fuzzy Aggregation Operators and Their Application to Group Decision Making -- Statistical Analysis of Wireless Fading Channels -- Discretization Method of Continuous Attributes Based on Decision Attributes -- Empirical Research of Price Discovery for Gold Futures Based on Compound Model Combing Wavelet Frame with Support Vector Regression.

Sommario/riassunto

The 2010 International Conference on Artificial Intelligence and Computational Intelligence (AICI 2010) was held October 23–24, 2010 in Sanya, China. The AICI 2010 received 1,216 submissions from 20 countries and regions. After rigorous reviews, 105 high-quality papers were selected for publication in the AICI 2010 proceedings. The acceptance rate was 8%. The aim of AICI 2010 was to bring together researchers working in many different areas of artificial intelligence and computational intelligence to foster the exchange of new ideas and promote international collaborations. In addition to the large number of submitted papers and invited sessions, there were several internationally well-known keynote speakers. On behalf of the Organizing Committee, we thank Hainan Province Institute of Computer and Qiongzhou University for its sponsorship and logistics support. We also thank the members of the Organizing Committee and the Program

Committee for their hard work. We are very grateful to the keynote speakers, invited session organizers, session chairs, reviewers, and student helpers. Last but not least, we thank all the authors and participants for their great contributions that made this conference possible.