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Collana	Lecture Notes in Artificial Intelligence ; ; 8266
Disciplina	006.3
Soggetti	Artificial intelligence Optical data processing Health informatics Application software Information storage and retrieval Algorithms Artificial Intelligence Computer Imaging, Vision, Pattern Recognition and Graphics Health Informatics Information Systems Applications (incl. Internet) Information Storage and Retrieval Algorithm Analysis and Problem Complexity
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Nota di contenuto	The Best Genetic Algorithm I: A Comparative Study of Structurally Different Genetic Algorithms -- The Best Genetic Algorithm II: A Comparative Study of Structurally Different Genetic Algorithms -- The Concept of Confidence for Inheritance-Based Genetic Algorithms -- WIGA: Wolbachia Infection Genetic Algorithm for Solving Multi-Objective Optimization Problems -- B-spline Surface Approximation Using Hierarchical Genetic Algorithm -- A Study of Genetic Algorithms to Solve the School Timetabling Problem -- Explicit Exploration in

Estimation of Distribution Algorithms -- An Ant Colony Algorithm for Improving Ship Stability in the Containership Stowage Problem -- Including Modal Improvisation and Music-Inspired Components to Improve Harmony Search -- A Massive Parallel Cellular GPU Implementation of Neural Network to Large Scale Euclidean TSP -- Determination of Cardiac Ejection Fraction by Electrical Impedance Tomography Using an Artificial Neural Network -- Bidirectional Recurrent Neural Networks for Biological Sequences Prediction -- Complete Diagnosis of Electrical Power Systems Using MDS and ANFIS -- Intelligent Rotor Time Constant Identification Approach in Indirect Field Oriented Induction Motor Drive -- Flame Classification through the Use of an Artificial Neural Network Trained with a Genetic Algorithm -- Traffic Sign Recognition Based on Linear Discriminant Analysis -- Association Measures and Aggregation Functions -- JT2FIS: A Java Type-2 Fuzzy Inference Systems Class Library for Building Object-Oriented Intelligent Applications -- Fault Detection and Diagnosis of Electrical Networks Using a Fuzzy System and Euclidian Distance -- An Embedded Fuzzy Agent for Online Tuning of a PID Controller for Position Control of a DC Motor -- A Note on Parameter Selection for Support Vector Machines -- Reinforcement Learning Method for Portfolio Optimal Frontier Search -- Weighed Aging Ensemble of Heterogenous Classifiers for Incremental Drift Classification -- Similarity Based on Data Compression -- Pattern Recognition with Spiking Neural Networks -- Subjective Evaluation of Labeling Methods for Association Rule Clustering -- An Algorithm of Classification for Nonstationary Case -- Using NIAR k-d Trees to Improve the Case-Based Reasoning Retrieval Step -- Weighting Query Terms towards Multi-faceted Information Fusion of Market Data -- An Agents and Artifacts Approach to Distributed Data Mining -- Evaluating Business Intelligence Gathering Techniques for Horizon Scanning Applications -- Identification of Relations in Region Connection Calculus: 9-Intersection Reduced to 3+-Intersection Predicates -- Fast and Robust Object Recognition Based on Reduced Shock-Graphs and Pruned-SIFT -- Matching Qualitative Spatial Scene Descriptions a la Tabu -- Classification of Mexican Paper Currency Denomination by Extracting Their Discriminative Colors -- Towards Reduced EEG Based Brain-Computer Interfacing for Mobile Robot Navigation -- Practical Speech Recognition for Contextualized Service Robots -- Using Monte Carlo Tree Search to Solve Planning Problems in Transportation Domains -- An Approach Based on an Interactive Procedure for Multiple Objective Optimisation Problems -- On Modeling Planning Problems: Experience from the Petrobras Challenge -- An Introduction to Concept-Level Sentiment Analysis -- Common Sense Knowledge Based Personality Recognition from Text -- Implementing Fuzzy Subtractive Clustering to Build a Personality Fuzzy Model Based on Big Five Patterns for Engineers -- Finding Opinion Strength Using Rule-Based Parsing for Arabic Sentiment Analysis -- Emotion Based Features of Bird Singing for Turdus Migratorius Identification.

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### Sommario/riassunto

The two-volume set LNAI 8265 and LNAI 8266 constitutes the proceedings of the 12th Mexican International Conference on Artificial Intelligence, MICA I 2013, held in Mexico City, Mexico, in November 2013. The total of 85 papers presented in these proceedings were carefully reviewed and selected from 284 submissions. The first volume deals with advances in artificial intelligence and its applications and is structured in the following five sections: logic and reasoning; knowledge-based systems and multi-agent systems; natural language processing; machine translation and bioinformatics and medical applications. The second volume deals with advances in soft computing

and its applications and is structured in the following eight sections: evolutionary and nature-inspired metaheuristic algorithms; neural networks and hybrid intelligent systems; fuzzy systems; machine learning and pattern recognition; data mining; computer vision and image processing; robotics, planning and scheduling and emotion detection, sentiment analysis and opinion mining.

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