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Disciplina	006.3
Soggetti	Artificial intelligence Application software Computer science Database management Information storage and retrieval systems Image processing—Digital techniques Computer vision Artificial Intelligence Computer and Information Systems Applications Theory of Computation Database Management Information Storage and Retrieval Computer Imaging, Vision, Pattern Recognition and Graphics
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Livello bibliografico	Monografia
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Nota di contenuto	Data Mining -- Improvement of the multiple-view learning based on the self-organizing Maps -- Natural Language Processing Methods Used for Automatic Prediction Mechanism of Related Phenomenon -- Visual Exploration of Data with Multithread MIC Computer Architectures -- Random Forests with Weighted Voting for Anomalous Query Access Detection in Relational Databases -- Performance evaluation of the

Silhouette index -- Convex Nonnegative Matrix Factorization with Rank-1 Update for Clustering -- Bioinformatics, Biometrics and Medical Applications -- On the Convergence of Quantum and Distributed Computational Models of Consciousness -- Nature-inspired Algorithms for Selecting EEG Sources for Motor Imagery based BCI -- PROCESS: Projection-based Classification of Electroencephalograph Signals -- Feature Extraction of Palm Vein Patterns Based on Two-Dimensional Density Function -- Segmentation Based Feature Selection on Classifying Proteomic Spectral Data -- SOM vs FCM vs PCA in 3d face recognition -- The Fuzzied Quasi-perception in Decision Making Concerning Treatments in Necrotizing Fasciitis -- Mobile Fuzzy System for Detecting Loss of Consciousness and Epileptic Seizure -- Customization of Joint Articulations using Soft Computing Methods -- A new method for the dynamic signature verification based on the stable partitions of the signature -- New fast algorithm for the dynamic signature verification using global features values -- IX Concurrent Parallel Processing -- Parallelization of a Block Cipher Based on Chaotic Neural Networks -- Acceleration of neighborhood evaluation for a multi-objective vehicle Routing -- A concurrent inconsistency reduction algorithm for the pairwise comparisons method -- OpenCL implementation of PSO algorithm for Quadratic Assignment Problem -- Agent Systems, Robotics and Control -- Towards a better understanding and behavior recognition of inhabitants in smart cities. A public transport case -- Aspects of structure and parameters selection of control systems using selected multi-population algorithms -- Optimization of controller structure using evolutionary algorithm -- Multi-criteria fuel distribution: a case study -- A Robust Heuristic for the Multidimensional A-star/Wavefront Hybrid Planning Algorithm -- Human-Agent Interaction Design for Decreasing Indebtedness -- XI Artificial Intelligence in Modeling and Simulation -- Fuzzy Xor Classes from Quantum Computing -- New method for non-linear correction modelling of dynamic objects with genetic programming -- Clustering algorithm based on molecular dynamics with Nose-Hoover thermostat. Application to Japanese candlesticks -- Improving the analysis of context-aware information via marker-based stigmergy and differential evolution -- Modeling manufacturing processes with disturbances - a new method based on algebraic-logical meta-model -- A new approach to nonlinear modeling based on significant operating points detection -- An Application of Differential Evolution to Positioning Queueing Systems -- Experimental evaluation of selected approaches to covariance matrix Regularization -- A new approach to Security Games -- Proposal of a context-aware smart home ecosystem -- Computational models of immediate and expected emotions for emotional BDI agents -- A Graph Grammar Tool for Generating Computational Grid Structures -- Assessment of fertilizer nitrogen requirement of sugar beetroot using Info-Gap Theory -- Geometric approach in local modeling: learning of mini-models based on n-dimensional simplex -- Immune Optimal Design of 2-D and 3-D Structures -- Swarm and immune computing of dynamically loaded reinforced structures -- The setup method of the order with the help of the rough sets convention -- ALMM Solver: the Idea and the Architecture -- Graph-based Optimization of Energy Efficiency of Street Lighting -- Extended AMUSE algorithm and novel randomness approach for BSS model aggregation with methodology remarks -- Various Problems of Artificial Intelligence -- Constraint Optimization Production Planning Problem. A Note on Theory, Selected Approaches and Computational Experiments -- Investigating the Mapping between Default Logic and Inconsistency-Tolerant Semantics -- Automated

discovery of mobile users locations with improved K-means Clustering -- Capturing dynamics of mobile context-aware systems with rules and statistical analysis of historical data -- Reasoning over Vague Concepts -- Parallel simulated annealing algorithm for cyclic flexible job shop scheduling problem -- Transactional Forward Chaining: A Functional Approach -- Metasets and Opinion Mining in New Decision Support System -- Practical Approach to Interoperability in Production Rule Bases with SUBITO -- Measuring Complexity of Business Process Models Integrated with Rules -- On Perturbation Measure for Binary Vectors -- A Quick Method For Dynamic Difficulty Adjustment of a Computer Player in Computer Games -- UCT-based approach to Capacitated Vehicle Routing Problem -- An Improved Magnetotactic Bacteria Moment Migration Optimization Algorithm -- SBVRwiki a Web-based Tool for Authoring of Business Rules -- Classification in sparse, high dimensional environments applied to distributed systems failure prediction -- Balanced Support Vector Regression -- Adaptation mechanism of feedback in quaternion Kalman filtering for orientation estimation -- Using Graph Grammar Systems with Memory in Computer Aided Design -- Software Framework for Modular Machine Learning Systems -- Parallel cost function determination on GPU for the vehicle routing Problem -- A DSS based on hybrid meta-heuristic ILS-VND for solving the 1-PDTSP -- On Enhancing the Label Propagation Algorithm for Sentiment Analysis Using Active Learning with an Artificial Oracle.

Sommario/riassunto

The two-volume set LNAI 9119 and LNAI 9120 constitutes the refereed proceedings of the 14th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2015, held in Zakopane, Poland in June 2015. The 142 revised full papers presented in the volumes, were carefully reviewed and selected from 322 submissions. These proceedings present both traditional artificial intelligence methods and soft computing techniques. The goal is to bring together scientists representing both areas of research. The first volume covers topics as follows neural networks and their applications, fuzzy systems and their applications, evolutionary algorithms and their applications, classification and estimation, computer vision, image and speech analysis, and the workshop: large-scale visual recognition and machine learning. The second volume has the focus on the following subjects: data mining, bioinformatics, biometrics and medical applications, concurrent and parallel processing, agent systems, robotics and control, artificial intelligence in modeling and simulation, and various problems of artificial intelligence.
