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Advanced Intelligent Computing Theories and Applications [11th International Conference, ICIC 2015, Fuzhou, China, August 20-23, 2015. Proceedings, Part III /

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Computer science | Computer software | Data mining | Information storage and retrieval systems | Artificial intelligence | Computer vision | Computer Science | Artificial Intelligence (incl. Robotics) | Information Systems Applications (incl. Internet) | Information Storage and Retrieval | Image Processing and Computer Vision | Data Mining and Knowledge Discovery | Algorithm Analysis and Problem Complexity

Monografía

This book (QA(B(3C (Bin conjunction with the double volume LNCS 9225-9556 (QA(B(3C (Bconstitutes the refereed proceedings of the 11th International Conference on Intelligent Computing, ICIC 2015, held in Fuzhou, China, in August 2015. The 84 papers of this volume were carefully reviewed and selected from 671 submissions. Original contributions related to this theme are especially solicited, including theories, methodologies, and applications in science and technology. This year, the conference concentrated mainly on machine learning theory and methods, soft computing, image processing and computer vision, knowledge discovery and data mining, natural language processing and computational linguistics, intelligent control and automation, intelligent communication networks and web applications, bioinformatics theory and methods, healthcare and medical methods, and information security

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Contenido: Machine Learning Theory and Methods -- A Review of Parameter Learning Methods in Bayesian Network -- The Hard-Cut EM Algorithm for Mixture of Sparse Gaussian Processes -- Maximum Principle in the Unbounded Domain of Heisenberg Type -- An Epidemic Propagation Model with Saturated Infection Rate on a Small World Network -- Granular Twin Support vector Machines based on Mixture Kernel -- Detecting Multiple Influential Observations in High Dimensional Linear Regression -- Drift Operator for States of Matter Search Algorithm -- Classification on Imbalanced Data Sets, Taking Advantage of Errors to Improve Performance -- PSO-Based Method for SVM Classification on Skewed Data Sets.-Set-Based Many-Objective Optimization Guided by Preferred Regions -- An Improved Incremental Error Minimized Extreme Learning Machine for Regression Problem Based on Particle Swarm Optimization -- A Systematic Comparison and Evaluation of Supervised Machine Learning Classifiers Using Headache Dataset.-A Generative Model with Ensemble Manifold Regularization for Multi-View Clustering -- On Classifying Diabetic Patients with Proliferative Retinopathies via a Radial Basis Probabilistic Neural Network -- Passivity Analysis of BAM NNs with Mixed Time Delays -- Soft Computing -- A Fuzzy Logic Controller for Indirect Matrix Converter under Abnormal Input Voltage Conditions.-On Denjoy-McShane-Stieltjes Integral of Fuzzy-Number-Valued Functions -- A Brief Survey on Fuzzy Cognitive Maps -- Sensor Data Driven Modeling and Control of Personalized Thermal Comfort Using Interval Type-2 Fuzzy Sets -- Knowledge Evaluation with Rough Sets -- On Solving CCR-DEA Problems Involving Type-2 Fuzzy Uncertainty Using Centroid-Based Optimization -- Image Processing and Computer Vision -- Adaptive Quantization of Local Directional Responses for Infrared Face Recognition.-Preliminary Study of Tongue Image Classification Based on Multi-Label Learning.-Online Kernel-Based Multimodal Similarity Learning with Application to Image Retrieval -- Reverse Training for Leaf Image Set Classification -- Visual Saliency Detection Based on Color Contrast and Distribution -- Moving Vehicle Detection Based on Visual Processing Mechanism with Multiple Pathways.-A Computer Vision Method for the Italian Fingerspelling Recognition.-A Spiking Neural Network for Extraction of Multi-Features in Visual Processing Pathways -- Image Set Classification Based on Synthetic Examples and Reverse Training -- Carried Baggage Detection and Classification Using Part-based Model -- Image Splicing Detection Based on Markov Features in QDCT Domain -- Facial Expression Recognition Based on Hybrid Approach -- A Local Feature Descriptor Based on Energy Information for Human Activity Recognition -- A Robust Online Non-Rigid Structure From Motion Algorithm -- A Multi-Feature Fusion Method for Automatic Multi-Label Image Annotation with Weighted Histogram Integral and Closure Regions Counting -- Diffusion-Based Hybrid Level Set Method for Complex Image Segmentation -- Knowledge Discovery and Data Mining -- The Optimization of Resource Allocation Based on Process Mining -- Research on Optimum Weighted Combination GM (1, 1) Model with Different Initial Value -- Spectral Clustering of High-dimensional Data via K-Nearest Neighbor Based Sparse Representation Coefficients -- Friend Recommendation by User Similarity Graph Based on Interest in Social Tagging -- Orchestrating Real-Valued Negative Selection Algorithm with Computational Efficiency for Crude Oil Price -- A New Algorithm of Automatic Grading in Computer Paperless Test System -- MLRF: Multi-Label Classification through Random Forest with Label-Set Partition -- Prediction of Oil and Water Layer by Kernel -- Local Fisher Discriminant Analysis -- Assessment of the Pillar 3 Financial and Risk Information -- Disclosures Usefulness to the Commercial Banks Users -- CKNNI: an Improved KNN-Based Missing Value Handling Technique -- An Item Based Collaborative Filtering System Combined with Genetic Algorithms Using Rating Behavior -- Natural Language Processing and Computational Linguistics -- Short Text Classification Based on Semantics -- Name Disambiguation Using Semi-Supervised Topic Model -- Automatic Evaluation of Machine Translation through the Residual Analysis -- Is the Most Frequent Sense of a Word Better Connected in a Semantic Network? -- Language Processing and Human Cognition -- An Ontology-Based Approach for Measuring Semantic Similarity between Words -- Intelligent Control and Automation -- Knowledge Bases(QA (B(3I (BControl for Intelligent Professional Activity Automatization -- Maximum Class-Separability Based Discriminant Feature Selection Using GA for Reliable Fault Diagnosis of Induction Motors -- Multi-Fault Diagnosis of Roller Bearings Using Support Vector Machines with an Improved Decision Strategy -- A Local Neural Networks Approximation Control of Uncertain Robot Manipulators -- Intelligent Communication Networks and Web Applications -- A Quantum-Inspired Immune Clonal Algorithm Based Handover Decision Mechanism with ABC Supported -- An IEEE 802.21 Based Heterogeneous Access Network Selection Mechanism -- A Dijkstra Based Multi-layer Satellite Network Routing Mechanism -- The Research on Optimizing Deployment Strategy for Aviation SWIM Application Servers -- Modeling Fault Tolerated Mobile Agents by Colored Petri Nets -- A Self-Adaptive Context-Aware Model for Mobile Commerce -- Research and Implementation on Autonomic Integration Technology of Smart Devices Based on DPWS -- Experimental Verification of the Dependence between the

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