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This book constitutes the refereed proceedings of the 7th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2006, held in Burgos, Spain in September 2006.   The 170 revised full papers presented were carefully reviewed and selected from 557 submissions. The papers are organized in topical sections on learning and information processing, data mining, retrieval and management, bioinformatics and bio-inspired models, agents and hybrid systems, financial engineering, as well as a special session on nature-inspired date technologies.

Learning and Information Processing On Some of the Neural Mechanisms Underlying Adaptive Behavior On Correlation Measures of Intuitionistic Fuzzy Sets A More Effective Constructive Algorithm for Permutation Flowshop Problem A Fast Algorithm for Relevance Vector Machine Time Series Relevance Determination Through a Topology-Constrained Hidden Markov Model A Fast Data Preprocessing Procedure for Support Vector Regression Classification by Weighting, Similarity and kNN An Improved EM Algorithm for Statistical Segmentation of Brain MRI Process State and Progress Visualization Using Self-Organizing Map Exploiting Spatio-temporal Data for the Multiobjective Optimization of Cellular Automata Models Comparing Support Vector Machines and Feed-forward Neural Networks with Similar Parameters A New Model Selection Method for SVM Speed-Up LOO-CV with SVM Classifier Integration of Strategies Based on Relevance Feedback into a Tool for the Retrieval of Mammographic Images Generalization Performance of Exchange Monte Carlo Method for Normal Mixture Models Evolutionary Design of gdSOFPNN for Modeling and Prediction of NOx Emission Process Upper Bounds for Variational Stochastic Complexities of Bayesian Networks A Neural Stochastic Optimization Framework for Oil Parameter Estimation Bootstrap Prediction Intervals for Nonlinear Time-Series Effectiveness of Considering State Similarity for Reinforcement Learning On the Structural Robustness of Evolutionary Models of Cooperation Prediction of Chaotic Time Series Based on Multi-scale Gaussian Processes Visual Sensitivity Analysis for Artificial Neural Networks ……Data Mining, Retrieval and ManagementBioinformatics and Bio-inspired ModelsAgents and Hybrid SystemsFinancial EngineeringSpecial Session on Nature-Inspired Date TechnologiesAuthor Index

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