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Soggetti	Artificial intelligence Pattern recognition Optical data processing Information storage and retrieval Application software Database management Artificial Intelligence Pattern Recognition Image Processing and Computer Vision Information Storage and Retrieval Information Systems Applications (incl. Internet) Database Management
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Nota di contenuto	Data Mining in Medicine -- Using Prototypes and Adaptation Rules for Diagnosis of Dysmorphic Syndromes -- OVA Scheme vs. Single Machine Approach in Feature Selection for Microarray Datasets -- Similarity Searching in DNA Sequences by Spectral Distortion Measures -- Multispecies Gene Entropy Estimation, a Data Mining Approach -- A Unified Approach for Discovery of Interesting Association Rules in Medical Databases -- Named Relationship Mining from Medical Literature -- Experimental Study of Evolutionary Based Method of Rule

Extraction from Neural Networks in Medical Data -- Web Mining and Logfile Analysis -- httpHunting: An IBR Approach to Filtering Dangerous HTTP Traffic -- A Comparative Performance Study of Feature Selection Methods for the Anti-spam Filtering Domain -- Evaluation of Web Robot Discovery Techniques: A Benchmarking Study -- Data Preparation of Web Log Files for Marketing Aspects Analyses -- UP-DRES User Profiling for a Dynamic REcommendation System -- Improving Effectiveness on Clickstream Data Mining -- Conceptual Knowledge Retrieval with FooCA: Improving Web Search Engine Results with Contexts and Concept Hierarchies -- Theoretical Aspects of Data Mining -- A Pruning Based Incremental Construction Algorithm of Concept Lattice -- Association Rule Mining with Chi-Squared Test Using Alternate Genetic Network Programming -- Ordinal Classification with Monotonicity Constraints -- Local Modelling in Classification on Different Feature Subspaces -- Supervised Selection of Dynamic Features, with an Application to Telecommunication Data Preparation -- Using Multi-SOMs and Multi-Neural-Gas as Neural Classifiers -- Derivative Free Stochastic Discrete Gradient Method with Adaptive Mutation -- Data Mining in Marketing -- Association Analysis of Customer Services from the Enterprise Customer Management System -- Feature Selection in an Electric Billing Database Considering Attribute Inter-dependencies -- Learning the Reasons Why Groups of Consumers Prefer Some Food Products -- Exploiting Randomness for Feature Selection in Multinomial Logit: A CRM Cross-Sell Application -- Data Mining Analysis on Italian Family Preferences and Expenditures -- Multiobjective Evolutionary Induction of Subgroup Discovery Fuzzy Rules: A Case Study in Marketing -- A Scatter Search Algorithm for the Automatic Clustering Problem -- Multi-objective Parameters Selection for SVM Classification Using NSGA-II -- Effectiveness Evaluation of Data Mining Based IDS -- Mining Signals and Images -- Spectral Discrimination of Southern Victorian Salt Tolerant Vegetation -- A Generative Graphical Model for Collaborative Filtering of Visual Content -- A Variable Initialization Approach to the EM Algorithm for Better Estimation of the Parameters of Hidden Markov Model Based Acoustic Modeling of Speech Signals -- Mining Dichromatic Colours from Video -- Feature Analysis and Classification of Classical Musical Instruments: An Empirical Study -- Automated Classification of Images from Crystallisation Experiments -- Aspects of Data Mining -- An Efficient Algorithm for Frequent Itemset Mining on Data Streams -- Discovering Key Sequences in Time Series Data for Pattern Classification -- Data Alignment Via Dynamic Time Warping as a Prerequisite for Batch-End Quality Prediction -- A Distance Measure for Determining Similarity Between Criminal Investigations -- Establishing Fraud Detection Patterns Based on Signatures -- Intelligent Information Systems for Knowledge Work(ers) -- Nonparametric Approaches for e-Learning Data -- An Intelligent Manufacturing Process Diagnosis System Using Hybrid Data Mining -- Computer Network Monitoring and Abnormal Event Detection Using Graph Matching and Multidimensional Scaling.

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## Sommario/riassunto

The Industrial Conference on Data Mining ICDM-Leipzig was the sixth event in a series of annual events which started in 2000. We are pleased to note that the topic data mining with special emphasis on real-world applications has been adopted by so many researchers all over the world into their research work. We received 156 papers from 19 different countries. The main topics are data mining in medicine and marketing, web mining, mining of images and signals, theoretical aspects of data mining, and aspects of data mining that bundle a series of different data mining applications such as intrusion detection, knowledge management, manufacturing process control, time-series

mining and criminal investigations. The Program Committee worked hard in order to select the best papers. The acceptance rate was 30%. All these selected papers are published in this proceedings volume as long papers up to 15 pages. Moreover we installed a forum where work in progress was presented. These papers are collected in a special poster proceedings volume and show once more the potentials and interesting developments of data mining for different applications. Three new workshops have been established in connection with ICDM: (1) Mass Data Analysis on Images and Signals, MDA 2006; (2) Data Mining for Life Sciences, DMLS 2006; and (3) Data Mining in Marketing, DMM 2006. These workshops are developing new topics for data mining under the aspect of the special application. We are pleased to see how many interesting developments are going on in these fields.

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