Changjie Tang Charles X. Ling Xiaofang Zhou Nick J. Cercone Xue Li (Eds.)

Advanced Data Minin and Applications

4th International Conference, ADM A 2008 Chengdu, China, October 8-10, 2008 Proceedings

^A ^ ← Springer

Table of Contents

Keynotes	5
----------	---

An Introduction, to Transfer Learning
Autonomy-Oriented Computing (AOC), Self-organized Cornputability, and Complex Data, Mining
Regular Papers
Improving Angle Based Mappings
Mining Natural Language Programming Directives with Class-Oriented Bayesian Networks
Boosting over Groups and Its Application to Acronym-Expansion Extraction
A Genetic-Based Feature Construction Method for Data Summarisation
Suicidal Risk Evaluation Using a Similarity-Based Classifier
Gene Selection for Cancer Classification Using DCA
FARS: A Multi-relational Feature and Relation Selection Approach for Efficient Classification
Enhancing Text Categorization Using Sentence Semantics. 8' Shady Shehata, Fakhri Ka,rray, and Moharned Kamel
Mining Evolving Web Sessions and Clustering Dynamic Web Documents for Similarity-Aware Web Content Management 99 Jitian Xiao

Data Quality in Privacy Preservation for Associative Classification. Ill Nattapon Hamsamut, Jiiggapong Natwichai, Xingzhi Sun, and Xue Li
Timeline Analysis of Web News Events
Analysis of Alarm Sequences in a Chemical Plant
Speed Up SVM Algorithm for Massive Classification Tasks
Mining Supplemental Frequent Patterns
A Distributed Privacy-Preserving Association Rules Mining Scheme Using Frequent-Pattern Tree,.;
Dichotomy Method toward Interactive Testing-Based Fault Localization
Maintaining the Maximum Normalized Mean and Applications in Data Stream Mining
Identification of Interface Residues Involved in Protein-Protein Interactions Using Naive Bayes Classifier
Negative Generator Border for Effective Pattern Maintenance
CommTracker: A Core-Based Algorithm of Tracking Community Evolution
Face Recognition Using Clustering Based Optimal Linear Discriminant Analysis
A Novel Immune Based Approach for Detection of Windows PE Virus
Using Genetic Algorithms for Parameter Optimization in Building Predictive Data Mining Models

Using Data Mining Methods to Predict Personally Identifiable Information in Emails
Iterative Reinforcement Cross-Domain Text Classification
Extracting Decision Rules from Sigmoid Kernel
DMGricl: A Data, Mining System Based on Grid Computing
S-SimRank: Combining Content and Link Information to Cluster Papers Effectively and Efficiently. 317 Yuanzhe Cai, Pei Li, Hongyan Liu, Jun He, and Xiaoyong Du
Open Domain Recommendation: Social Networks and Collaborative Filtering
An Effective Approach foi: Identifying Evolving Three-Dimensional Structural Motifs in Protein Folding Data
Texture Image Retrieval Based on Contourlet Transform and Active Perceptual Similarity Learning
A Temporal Domina.nt Relationship Analysis Method
Leakage-Aware Energy Efficient Scheduling for Fixed-Priority Tasks with Preemption Thresholds
Short Papers
Learning and Inferences of the Baycsian Network with Maximum Likelihood Parameters
TARtool: A Temporal Dataset Generator for Market Basket Analysis
Dimensionality Reduction for Classification: Comparison of Techniques and Dimension Choice

Trajectories Mining for Traffic Condition Renewing
Mining Bug Classifier and Debug Strategy Association Rules for Web-Based Applications
Linn Yu, Changzhu Kong, Lei Xu, Jingtao Zhao, and HuiHui Zhang
lest the Overall Significance of p-Values by Using Joint Tail Probability of Ordered p-Values as Test Statistic
Mining Interesting Infrequent and Frequent Iternsets Based on MLMS Model
Xiongjun Dong. Zhendong Niu, Donghua Zhu. Zhiyun Zheng, and, Qiuting Ma
Text Learning and Hierarchical Feature; Selection in Webpage Classification
Xiaogang Peng, Zhong Ming, and, Haitao Wang
The RSO Algorithm for Reducing Number of Set Operations in Association Rule Mining
Predictive Performance of Clustered Feature-Weighting Case-Based Reasoning
Selecting the Right Features for Bipartite-Based Text Clustering
Image Emotional Classification Based on Color Semantic Description 485 Kaiping Wei, Bin He, Tao Zhang, and Wenya He
A Semi-supervised Clustering Algorithm Based on Must-Link Set
T-rotation: Multiple Publications of Privacy Preserving Da.ta Sequence
The Integrated Methodology of KPCA and Wavelet Support Vector Machine for Predicting Financial Distress
Outlier Detection Based on Voronoi Diagram

Table of Contents XV
AWSum - Data Mining for Insight
Integrative Neural Network Approach for Protein Interaction Prediction from Heterogeneous Data
Rules Extraction Based on Data Summarisation Approach Using DARA
A R.ough-Apriori Technique in Mining Linguistic Association Rules'. 548 Yun-Huoy Choo, Azuraliza Abu Bakar, and, Abdul Razak Harndan
Mining Causal Knowledge from Diagnostic Knowledge
Modified Particle Swarm Optimizer with Adaptive Dynamic Weights for Cancer Combinational Chemotherapy
MPSQAR: Mining Quantitative Association Rules Preserving Semantics
Using Support Vector Regression for Classification
Dynamic Growing Self-organizing Neural Network for Clustering
A Design of Reward Function Based on Knowledge in Multi-agent Learning
A Learning Method of Detecting Anomalous Pedestrian
Moment-h: Mining Closed Frequent Itemsets over Data Stream
CDPM: Finding and Evaluating Community Structure in Social Networks
Using Matrix Model to Find Association Rule Core for Diverse Compound Critiques

Link-Contexts for Ranking
DC-Tree: An Algorithm for Skyline Query on Data Streams
Sequential Pattern Mining for Protein Function Prediction
Improving Web Search by Categorization, Clustering, and Personalization
JSNVA: A Ja-va Straight-Line Drawing Framework for Network Visual Analysis
Recognition of Data Records in Semi-structured Web-Pages Using Ontology and x ² Statistical Distribution
Organizing Structured Deep Web by ClusteringQuery Interfaces Link Graph
CB.P: A New Efficient Method for Mining Multilevel and Generalized Frequent Itemsets
Supporting Customer Retention through Real-Time-Monitoring of Individual Web Usage
A Comparative Study of Correlation Measurements for Searching Similar Tags
Structure of Query Modification Process: Branchings. 717 Nikolai Buzikashvili
Mining Top-n Local Outliers in Constrained Spatial Networks , 725 Chongsheng Zhang, Zhongbo Wu, Bo Qu. and, Hong Chen
Mining Concept-Drifting Data Streams-with Multiple Semi-Random Decision Trees

Table of Contents XVII

Automatic Web Tagging and Person Tagging Using Language	
Models.	741
Qia.ozhu Mei and Yi Zhang	
Real-Time Peison Tracking Based on Data Field	749
Shuliang Wang, Juebo Wu. Feng Cheng, and Hong Jin	
Author Indov	757
Author Index	131