Table of Contents

Workshop on Web-Based Massive Data Processing

Session 1: Streaming Data

Efficient Filtering Query Indexing in Data Stream
   Ying Wang, Shuo Bai, Jianlong Tan, Li Guo .......................... 1

Modelling and Guaranteeing Quality of Service over Data Streams
   Shanshan Wu, Yu Gu, Yanfei Lv, Ge Yu ......................... 13

Research on Prediction Models over Distributed Data Streams
   Li Tian, AiPing Li, Peng Zou ........................................... 25

A Grid-Based Subspace Clustering Algorithm for High-Dimensional
   Data Streams
   Yufen Sun, Yansheng Lu .................................................. 37

Session 2: Mining Massive Data

Mining h-Dimensional Enhanced Semantic Association Rule Based
   on Immune-Based Gene Expression Programming
   Tao Zeng, Changjie Tang, Yintian Liu, Jiangtao Qiu, Mingfang Zhu,
   Shucheng Dai, Yong Xiang ........................................... 49

An Efficient Algorithm for Distributed Incremental Updating
   of Frequent Item-Sets on Massive Database
   Jiangtao Qiu, Changjie Tang, Lei Duan, Chuan Li, Shaojie Qiao,
   Peng Chen, Qihong Liu ................................................ 61

Mining Maximum Frequent Access Patterns in Web Logs Based
   on Unique Labeled Tree
   Ling Zhang, Juan-ping Yin, Yu-bin Zhan ............................. 73

Short Documents Clustering in Very Large Text Databases
   Yongheng Wang, Yan Jia, ShuQiang Yang ............................. 83

A Simple Yet Efficient Approach for Maximal Frequent Subtrees
   Extraction from a Collection of XML Documents
   Juryon Paik, Ung Mo Kim ................................................ 94
Session 3: Massive Data Systems

A Web-Based Transformation System for Massive Scientific Data
Shi Feng, Jie Song, Xuhui Bai, Daling Wang, Ge Yu .......... 104

Supporting Complex Query with Structured Overlays in Schema-Based P2P System
Min Yu, Zhanhuai Li, Longbo Zhang ................. 115

DRO+: A Systemic and Economical Approach to Improve Availability of Massive Database Systems
Kai Du, Huaimin Wang, Bo Deng, Yongheng Wang, ShuQiang Yang .... 122

Research and Implement of Real-Time Data Loading System IMIL
WeiHong Han, Yan Jia, ShuQiang Yang ................. 133

Workshop on Web Information Access and Digital Library

Session 1: Information Organization and Retrieval

Blogs in American Academic Libraries: An Overview of Their Present Status and Possible Future Use
Zhuo Fu ............................................. 145

Rebuilding the Library OPAC
Zhigeng Wang ........................................ 153

Web Content Mining for Market Intelligence Acquiring from B2C Websites
Danxiang Ai, Yufeng Zhang, Hui Zuo, Quan Wang ............... 159

Design of Chinese Word Segmentation System Based on Improved Chinese Converse Dictionary and Reverse Maximum Matching Algorithm
Liyi Zhang, Yazi Li, Jian Meng ............................ 171

Cross-Media Database Retrieval System Based on TOTEM
Cheng Zeng, Haiyang Zhou, Bing Yan ....................... 182

Session 2: Information System

Semantic Query Planning Mechanism on XML Based Web Information Systems
Jinguang Gu, Bo Hu, Yi Zhou ............................ 194
Analysis on the Construction of Management Modes of E-Government Information Exchange in China  
_Cui Huang_ ......................................................... 206

Aggregated Framework of Enterprise Information System Based on Synergetic Theory  
_Gang Li, Quan Wei_ .................................................. 216

Web Personalization Based on Artificial Psychology  
_Quan Lu, Jing Chen, Bo Meng_ ................................. 223

Grid Resource Management Based on Mobile Agent  
_Xiaobo Tang, Huang Li_ ............................................ 230

Session 3: Digital Library

The Use of Intelligent Information Access Technologies in Digital Libraries  
_Jiangping Chen, Yuhua Li, Gang Li_ ............................ 239

Encryption and Program Realization of Information Resources in DRM  
_Chuanfu Chen, Zhiqiang Wu, Laichu Tang, Congjing Ran_ 251

Knowledge Organization Systems and Interfaces of Digital Libraries in China  
_Li Si, Lixiao Xu, Hongyan Chen_ ............................... 259

Study on Distribution Model of Internet Information Resources in China  
_Hui Liu_ .......................................................... 269

Advances in Web-Based Learning

Collaborative User Tracking for Community Organization on Blogosphere: A Case Study of eLearning@BlogGrid  
_Jason J. Jung, Inay Ha, Supratip Ghose, Geun-Sik Jo_ 276

Adaptive UI Storytelling System Using MOL  
_Sunghan Bae, Rohae Myung_ ...................................... 287

Construction of a Distributed Learning Resource Management System Based on RSS Technology  
_Chengling Zhao, Liyong Wan, Ying Yu, Qi Luo_ .............. 298
A Semantic Web Application to Automate the Construction of Didactic Material for Web-Based Education System
       Rubén Peredo, Leandro Balladares, Iván Peredo .......................... 306

Author Index ................................................................. 319