## **Contents**

Applying Moving Boundary and Nested Grid to Compute the Accretion, Erosion at the Estuary	1
Study on the Evaluation of Technological Innovation Efficiency of Equipment Manufacturing Industry in China Based on Improved DEA	11
Design of Distributed Heterogeneous Data Retrieval Engine Using Service Oriented Architectures and Rich Internet Applications	19
Relationship between Internet Search Data and Stock Return: Empirical Evidence from Chinese Stock Market  Ying Liu, Benfu Lv, Geng Peng, Chong Zhang	25
Hybrid Web Service Selection by Combining Semantic and Keyword Approaches	31
Research of Ontology-Driven Agricultural Search Engine	39
Efficient Encoding Technique for Strings-Based Dynamic XML Labeling Schemes Shaorong Feng, Canwei Zhuang	45
Cross-Language Peculiar Image Search Using Translaion between Japanese and English	51



VIII Contents

VSEC: A Vertical Search Engine for E-commerce  Quan Shi, Zhenquan Shi, Yanghua Xiao	57
Knowledge Based System for Intelligent Search Engine Optimization Héctor Oscar Nigro, Leonardo Balduzzi, Ignacio Andrés Cuesta, Sandra Elizabeth González Císaro	65
A Novel Research Methodology for Gastronomic Blogs	73
Semantic Network Active Directory Service System	79
Lost in Translation: Data Integration Tools Meet the Semantic Web (Experiences from the Ondex Project)	87
Multi-classification Document Manager: A Rich Ontology-Based Approach for Semantic Desktop	99
Investigating the Potential of Rough Sets Theory in Automatic Thesaurus Construction	107
Sentiment Analysis in Colombian Online Newspaper Comments Diego Pérez-Granados, Carlos Lozano-Garzón, Alexandra López-Urueña, Claudia Jiménez-Guarín	113
Privacy Tradeoffs in eCommerce: Agent-Based Delegation for Payoff Maximization  Abdulsalam Yassine, Ali Asghar Nazari Shirehjini, Shervin Shirmohammadi, Thomas T. Tran	121
An Improved Kernel Trojan Horse Architecture Model	129
Automatically Resolving Virtual Function Calls in Binary Executables	135
Tao Wei, Runpu Wu, Tielei Wang, Xinjian Zhao, Wei Zou, Weihong Zheng	2
Research of Network Intrusion-Detection System Based on Data Mining	141

Classification Algorithm for Filtering E-mail Spams	149
DPEES: DDoS Protection Effectiveness Evaluation System	155
Host Based Detection Approach Using Time Based Module for Fast Attack Detection Behavior Faizal Mohd Abdollah, Mohd Zaki Mas'ud, Shahrin Sahib, Asrul Hadi Yaacob, Robiah Yusof, Siti Rahayu Selamat	163
Virtual Machine Based Autonomous Web Server	173
Generation of IPv6 Addresses Based on One-to-Many Reversible Mapping Using AES  Nashrul Hakiem, Akhmad Unggul Priantoro, Mohammad Umar Siddiqi, Talib Hashim Hasan	183
A Study on Privacy Preserving Data Leakage Prevention System  Jinhyung Kim, Hyung Jong Kim	191
The Trojan Horse Detection Technology Based on Support Vector Machine	197
High Capacity Lossless VQ Hiding with Grouping Strategy	203
Traffic-Oriented STDMA Scheduling in Multi-hop Wireless Networks  Jung-Shian Li, Kun-Hsuan Liu, Chun-Yen Wang, Chien-Hung Wu	211
Cloud Computing: Understanding the Technology before Getting "Clouded"	217
Literature Review of Network Traffic Classification Using Neural Networks	223
AUS: A Scalable IPv6 Multicast Solution	233
Indonesian Shallow Stemmer for Text Reading Support System  Hajime Mochizuki, Yuhei Nakamura, Kohji Shibano	245

Intellectual Property Online Education System Based on Moodle Yutaro Ikeda, Yasuhiko Higaki	257
Knowledge Sharing in Virtual Teams a Perspective View of Social  Capital  Ying Chieh Liu	263
A Study on Correlation between Web Search Data and CPI	269
Improve the User Experience with Quick-Browser on Netbook	275
A Study on Sharing Grid of Instructional Resources Management  System	281
Learning with Serious Games: The SELEAG Approach	287
A Framework for e-Content Generation, Management and Integration in MYREN Network	293
A Case of Study of Investigating Users' Acceptance toward Mobile  Learning	299
A Layered Service-Oriented Architecture for Exercise Prescriptions Generation and Follow-Up Wen-Shin Hsu, Jiann-I Pan	307
Web GIS-Based Regional Social Networking Service as Participatory GIS	313
Network and Data Management Techniques for Converged IP Networks	323
Developing WikiBOK: A Wiki-Based BOK Formulation-Aid System Yoshifumi Masunaga, Masaki Chiba, Nobutaka Fukuda, Hiroyuki Ishida, Kazunari Ito, Mamoru Ito, Toshiyuki Masamura, Hiroyasu Nagata, Yasushi Shimizu, Yoshiyuki Shoji, Toru Takahashi, Taro Yabuki	333
Secure Spaces and Spatio-temporal Weblog Sensors with Temporal Shift and Propagation	343

Neighbor Information Table-Based Handoff Research for Mobile IPv6	351
Zhang Lin, Qiu Shu-Wei, Zhou Jian, Huang Jian	
Channel Assignment in Wireless Networks Using Simple Genetic  Algorithms	357
Application Study of Brand Niche Theory in B2C Brands Overlap and Breadth Measurement	363
Influenza Epidemics Detection Based on Google Search Queries Fan Liu, Benfu Lv, Geng Peng, Xiuting Li	371
A Message Prioritization Scheme for Virtual Collaboration	377
An Online Virtual Classroom Using SIP	387
The Designing of the EPON System	395
A Case Study of a Successful mHealth Application: Cell-Life's EMIT  System	401
Combine DPC and TDM for MIMO Broadcast Channels in Circuit Data Scenarios  Yingbo Li, Da Wang, Guocheng Lv, Mingke Dong, Ye Jin	4 <b>0</b> 9
Estimating Average Round-Trip Time from Bidirectional Flow Records in NetFlow	415
PAR: Prioritized DTN Routing Protocol Based on Age Rumors Luan Xu, Hongyu Wei, Zhengbao Li, Haipeng Qu	425
The Applications of GIS in Modern Community Management and Service	433
Comp. Psy. 101: The Psychology behind High Performance Computing Wendy Sharples, Louis Moresi, Katie Cooper, Patrick Sunter	439
Quality Assessment for MPEG-2 Video Streams	453

XII Contents

Portuguese Education Going Mobile with M-Learning	459
Measurement and Improvement of the Delay of SCTP Multihoming Path Switch  Kuang-Yuan Tung, Richard Chun-Hung Lin, Ying Chih Lin, Yu-Hsiu Huang	465
A Holistic Game Inspired Defense Architecture	471
Performance of VoIP on IPv4 and IPv6to4 Tunnel Using Windows Vista and Windows 7 Samad Salehi Kolahi, Mohib Ali Shah, Justin Joseph	477
A PageRank-Based Heuristic Algorithm for Influence Maximization in the Social Network	485
Examining Learning Attitude toward ICT in Digital Photography Sin-Ho Chin, Jung-Hui Lien, Yi-Xin Huang	491
Study on the Information Technology-Based Lean Construction Supply Chain Management Model Chen Yan, Xu Zhangong	499
Design and Implementation of Value-Added Services Based on Parlay/OSA API	507
A Design of Integrated Management System for Building Constructions Based on USNs	515
Design of Public Practical Training Service Platform Based on Cloud Computing for Students Majoring in Software	525
Author Index	533