

Table of Contents

Particle Swarm Optimization for Digital Image Watermarking	1
<i>Hai Tao, Jasni Mohamad Zain, Ahmed N. Abd Alla, and Qin Hongwu</i>	
A Hardware Design for Portable Continuous Wave Diffuse Optical Tomography	9
<i>Shih Kang, Shih-Yang Wu, Chih-Chung Fu, Ericson Chua, Yuan-Huang Hsu, and Wai-Chi Fang</i>	
An XML-Based Data Model for Moving Object Database	19
<i>Xiajun Jiang, Yuping Zhang, and Dechang Pi</i>	
Improving Response Time, Availability and Reliability through Asynchronous Replication Technique in Cluster Architecture of Web Server Cluster	29
<i>Aznida Hayati Zakaria, Wan Suryani Wan Awang, Zarina Mohamad, Ahmad Nazari Mohd Rose, and Mustafa Mat Deris</i>	
Change Detection in Ontology Versioning: A Bottom-Up Approach by Incorporating Ontology Metadata Vocabulary	37
<i>Heru-Agus Santoso, Su-Cheng Haw, and Chien-Sing Lee</i>	
Controlling Multi Algorithms Using Round Robin for University Course Timetabling Problem	47
<i>Khalid Shaker and Salwani Abdullah</i>	
Strategy Modeling and Classifier Training for Share Trading	56
<i>Yain-Whar Si, Weng-Lon Lei, and Chi-Chong Chiu</i>	
BT+-tree: A New Index for Temporal Information in Web Pages	68
<i>Hong Chen, Qiang Li, and Peiquan Jin</i>	
Rough Set Approximations on Granular Structures and Feature Characterizations	79
<i>Tong-Jun Li and Yan-Ling Jing</i>	
Recursive Query Facilities in Relational Databases: A Survey	89
<i>Piotr Przyms, Aleksandra Boniewicz, Marta Burzańska, and Krzysztof Stencel</i>	
Semantic Constraint-Based XML Updating	100
<i>Md. Sumon Shahriar and Jixue Liu</i>	

Coupling Ontology with Rule-Based Theorem Proving for Knowledge Representation and Reasoning	110
<i>Xiuqin Zhong, Hongguang Fu, and Yan Jiang</i>	
On Defining Functional Dependencies in XML Schema	120
<i>Haitao Chen, Husheng Liao, and Zengqi Gao</i>	
The Lower and the Upper Systems of Rules in Tables with Missing Values	132
<i>Hiroshi Sakai, Michinori Nakata, and Dominik Ślęzak</i>	
Data Warehouse Discovery Framework: The Foundation	142
<i>Cas Apanowicz</i>	
Data Warehouse Discovery Framework: The Case Study	155
<i>Cas Apanowicz</i>	
An Elitist-Ant System for Solving the Post-Enrolment Course Timetabling Problem	167
<i>Ghaith M. Jaradat and Masri Ayob</i>	
An Improved Back Propagation Neural Network Algorithm on Classification Problems	177
<i>Nazri Mohd Nawi, R.S. Ransing, Mohd Najib Mohd Salleh, Rozaida Ghazali, and Norhamreeza Abdul Hamid</i>	
Great Deluge Algorithm for Rough Set Attribute Reduction	189
<i>Salwani Abdullah and Najmeh Sadat Jaddi</i>	
Syntactic Reordering for Arabic-English Phrase-Based Machine Translation	198
<i>Arwa Hatem and Nazlia Omar</i>	
The Concept of Indiscernibility Level of Rough Set to Reduce the Dendrogram Instability	207
<i>R.B. Fajriya Hakim, Subanar, and Edi Winarko</i>	
Dual Quorum Replication (DQR): A Protocol for Data Replication in Data Grid	226
<i>Rohaya Latip and Aminah Hidayah Mohamad Ariff</i>	
Fingerprint Area Detection in Fingerprint Images Based on Enhanced Gabor Filtering	234
<i>Michal Dolezel, Dana Hejtmankova, Christoph Busch, and Martin Drahansky</i>	
Portable Brain-Heart Monitoring System	241
<i>Chih-Chung Fu, Chiu-Kuo Chen, Shao-Yen Tseng, Shih Kang, Ericson Chua, and Wai-Chi Fang</i>	

Dermatologic Diseases and Fingerprint Recognition	251
<i>Eva Brezinova, Martin Drahansky, and Filip Orsag</i>	
Changes in Cognitive Performance Due to Three Types of Emotional Tension	258
<i>Mi-Hyun Choi, Su-Jeong Lee, Jae-Woong Yang, Ji-Hye Kim, Jin-Seung Choi, Jang-Yeon Park, Jae-Hoon Jun, Gye-Rae Tack, Dae-Woon Lim, and Soon-Cheol Chung</i>	
Amino Acid Substitution Positions on the VP7 and NSP4 Molecules of Rotavirus Circulating in China	265
<i>Xiaofeng Song, Yan Hao, and Ping Han</i>	
A Time-Frequency HRV Processor Using Windowed Lomb Periodogram	273
<i>Shao-Yen Tseng and Wai-Chi Fang</i>	
Molecular Markers Associated with Low Temperature Tolerance in Winter Wheat	283
<i>Alireza Taleei, Reza Gholi Mirfakhraee, Mohsen Mardi, Abbas Ali Zali, and Cyrus Mahfouzi</i>	
Improving the Ability of Mining for Multi-dimensional Data	291
<i>Yong Shi and Tyler Kling</i>	
Hospital RFID-Based Patient u-Healthcare Design over Wireless Medical Sensor Network	299
<i>Randy S. Tolentino and Sungwon Park</i>	
Author Index	309