

Part I: Semantic Web and Ontologies

Recognizing and Tagging Vietnamese Words Based on Statistics and Word Order Patterns	3
<i>Hieu Le Trung, Vu Le Anh, Viet-Hung Dang, Hai Vo Hoang</i>	
A Combination System for Identifying Base Noun Phrase Correspondences	13
<i>Hieu Chi Nguyen</i>	
Towards the Web in Your Pocket: Curated Data as a Service	25
<i>Stuart Dillon, Florian Stahl, Gottfried Vossen</i>	

Part II: Social Networks and e-Learning

Why Do People Stick to Play Social Network Sites? An Extension of Expectation-Confirmation Model with Perceived Interpersonal Values and Playfulness Perspectives	37
<i>Ron Chuen Yeh, Yi-Chien Lin, Kuo-Hung Tseng, Pansy Chung, Shi-Jer Lou, Yi-Cheng Chen</i>	
Collaborative Problem Solving in Emergency Situations: Lessons Learned from a Rescue Mission	47
<i>Radostaw Nielek, Aleksander Wawer, Adam Wierzbicki</i>	
Biometric and Intelligent Student Progress Assessment System	59
<i>Artūras Kaklauskas, Edmundas Kazimieras Zavadskas, Mark Seniut, Andrej Vlasenko, Gintaris Kaklauskas, Algirdas Juozapaitis, Agne Matuliauskaite, Gabrielius Kaklauskas, Lina Zemeckyte, Ieva Jackute, Jurga Naimaviciene, Justas Cerkauskas</i>	
Scaffolding Opportunity in Problem Solving – The Perspective of Weak-Tie	71
<i>Min-Huei Lin, Ching-Fan Chen</i>	

A Fast Algorithm for Predicting Topics of Scientific Papers Based on Co-authorship Graph Model	83
<i>Nhut Truong Hoang, Phuc Do, Hoang Nguyen Le</i>	

Part III: Agent and Multiagent Systems

Cooperating and Sharing Knowledge in an Intelligent Multi-Agent System Based on Distributed Knowledge Bases for Solving Problems Automatically	95
<i>Nguyen Tran Minh Khue, Nhon Van Do</i>	

Multi-agent Platform for Security Level Evaluation of Information and Communication Services	107
<i>Grzegorz Kołaczek</i>	

A Multi-agent Model for Image Browsing and Retrieval	117
<i>Hue Cao Hong, Guillaume Chiron, Alain Boucher</i>	

An Efficient Ranging Protocol Using Multiple Packets for Asynchronous Real-Time Locating Systems	127
<i>Seungryeol Go, Jong-Wha Chong</i>	

Agent-Based Model of Celtic Population Growth: NetLogo and Python	135
<i>Kamila Olševičová, Richard Cimler, Tomáš Machálek</i>	

Part IV: Data Mining Methods and Applications

Ant Colony Inspired Clustering Based on the Distribution Function of the Similarity of Attributes	147
<i>Arkadiusz Lewicki, Krzysztof Pancerz, Ryszard Tadeusiewicz</i>	

Maintenance of IT-Tree for Transactions Deletion	157
<i>Thien-Phuong Le, Bay Vo, Tzung-Pei Hong, Bac Le, Jason J. Jung</i>	

Dimensionality Reduction by Turning Points for Stream Time Series Prediction	167
<i>Van Vo, Luo Jiawei, Bay Vo</i>	

Clustering as an Example of Optimizing Arbitrarily Chosen Objective Functions	177
<i>Marcin Budka</i>	

IPMA: Indirect Patterns Mining Algorithm	187
<i>Tutut Herawan, A. Noraziah, Zailani Abdullah, Mustafa Mat Deris, Jemal H. Abawajy</i>	

Local Region Partitioning for Disguised Face Recognition Using Non-negative Sparse Coding	197
<i>Khoa Dang Dang, Thai Hoang Le</i>	

Computer Based Psychometric Testing and Well Being Software for Sleep Deprivation Analysis	207
<i>Vilem Novak, Radka Jeziorská, Marek Penhaker</i>	

Part V: Soft Computing

Dynamic Parameters in GP and LGP	219
<i>Tomasz Lysek, Mariusz Boryczka</i>	

GPGPU Implementation of Evolutionary Algorithm for Images Clustering	229
<i>Dariusz Konieczny, Maciej Marcinkowski, Paweł B. Myszkowski</i>	

Recombination Operators in Genetic Algorithm – Based Crawler: Study and Experimental Appraisal	239
<i>Huynh Thi Thanh Binh, Ha Minh Long, Tran Duc Khanh</i>	

Meta-evolution Modelling: Beyond Selection/Mutation-Based Models	249
<i>Mariusz Nowostawski</i>	

Probabilistic Splicing Systems	259
<i>Sherzod Turaev, Mathuri Selvarajoo, Mohd Hasan Selamat, Nor Haniza Sarmin, Wan Heng Fong</i>	

How to Model Repricable-Rate, Non-maturity Products in a Bank: Theoretical and Practical Replicating Portfolio	269
<i>Pascal Damel, Nadège Ribau-Peltre</i>	

The Use of Artificial Neural Networks in Company Valuation Process	279
<i>Zofia Wilimowska, Tomasz Krzysztozek</i>	

Circadian Rhythm Evaluation Using Fuzzy Logic	289
<i>Martin Cerny, Miroslav Pokorny</i>	

Part VI: Optimization and Control

Optimization of Container Handling Systems in Automated Maritime Terminal	301
<i>Hamdi Dkhil, Adnan Yassine, Habib Chabchoub</i>	

A Study of Bandwidth Guaranteed Routing Algorithms for Traffic Engineering	313
<i>Phuong-Thanh Cao Thai, Hung Tran Cong</i>	

Application of a Clustering Based Location-Routing Model to a Real Agri-food Supply Chain Redesign	323
<i>Fethi Boudahri, Wassila Aggoune-Mtalaa, Mohammed Bennekrouf, Zaki Sari</i>	

Crisis Management Model and Recommended System for Construction and Real Estate 333
Artūras Kaklauskas, Edmundas Kazimieras Zavadskas, Paulius Kazokaitis, Juozas Bivainis, Birute Galiniene, Maurizio d’Amato, Jurga Naimaviciene, Vita Urbanaviciene, Arturas Vitas, Justas Cerkas

Clinical Activity and Schedule Management with a Fuzzy Social Preference System 345
Pawel Wozniak, Tomasz Jaworski, Pawel Fiderek, Jacek Kucharski, Andrzej Romanowski

Fuzzy $\bar{x}$ and s Charts: Left & Right Dominance Approach 355
Thanh-Lam Nguyen, Ming-Hung Shu, Ying-Fang Huang, Bi-Min Hsu

A High Energy Efficiency Approach Based on Fuzzy Clustering Topology for Long Lifetime in Wireless Sensor Networks 367
Quynh-Trang Lam, Mong-Fong Horng, Trong-The Nguyen, Jia-Nan Lin, Jang-Pong Hsu

Author Index 377