

# ACIIDS2012 Agenda

| <b>March 19, 2012 (Monday)</b> |  |   |  |
|--------------------------------|--|---|--|
| 09:00<br> <br>09:30            | Opening<br>GF – Banquet Hall II  |   |  |
| 09:30<br> <br>10:30            | Keynote Speech<br>GF – Banquet Hall II                                   |   |  |
| 10:30<br> <br>11:00            | Coffee Break<br>GF – Banquet Hall  |   |  |
| 11:00<br> <br>12:00            | Keynote Speech<br>GF – Banquet Hall II                                   |   |  |
| 12:00<br> <br>13:30            | Lunch<br>1F – Hoya Restaurant  |   |  |
| 13:30<br> <br>15:30            | <b>Session A01</b><br>Multiple model approach<br>to machine learning(1)  | <b>Session A02</b><br>User Adaptive Systems (1) | <b>Session A03</b><br>Agent System   |
|                                | Meeting Room -101  | Meeting Room -103                               | Meeting Room -203  |
| 15:30<br> <br>16:00            | Coffee Break<br>Meeting Room -102  |   |  |
| 16:00<br> <br>18:00            | <b>Session A04</b><br>Multiple model approach<br>to machine learning (2) | <b>Session A05</b><br>User Adaptive Systems (2) | <b>Session A06</b><br>Ubiquitous Decision<br>Support with<br>Bayesian Network<br>and Computational<br>Creativity |
|                                | Meeting Room -101  | Meeting Room -103                               | Meeting Room -203  |
| 18:30                          | Welcome Reception<br>GF – Banquet Hall I                                 |   |  |

**March 20, 2012 (Tuesday)**

|                     |   |   |  |
|---------------------|---|---|--|
| 09:00<br> <br>10:00 | Keynote Speech<br>GF – Banquet Hall II  |   |  |
| 10:00<br> <br>10:30 | Coffee Break<br>GF – Banquet Hall   |   |  |
| 10:30<br> <br>12:00 | <b>Session B01</b><br>Clustering technology   | <b>Session B02</b><br>Intelligent Systems (1) | <b>Session B03</b><br>Intelligent Supply Chains                                      |
|                     | Meeting Room -101   | Meeting Room -103                             | Meeting Room -203  |
| 12:00<br> <br>13:30 | Lunch<br>1F – Hoya Restaurant   |   |  |
| 13:30<br> <br>15:30 | <b>Session B04</b><br>Intelligent Media Processing  | <b>Session B05</b><br>Intelligent Systems (2) | <b>Session B06</b><br>Advances in Nature-Inspired Autonomic Computing and Networking |
|                     | Meeting Room -101   | Meeting Room -103                             | Meeting Room -203  |
| 15:30<br> <br>16:00 | Coffee Break<br>Meeting Room - 102  |   |  |
| 16:00<br> <br>18:00 | <b>Session B07</b><br>Modelling and Optimization Techniques in Information Systems, Database Systems and Industrial Systems | <b>Session B08</b><br>Intelligent Systems (3) | <b>Session B09</b><br>Computational Intelligence                                     |
|                     | Meeting Room -101   | Meeting Room -103                             | Meeting Room -203  |
| 18:30               | Banquet<br>GF – Banquet Hall I  |   |  |

**March 21, 2012 (Wednesday)**

|                     |  |   |   |
|---------------------|--|---|---|
| 09:00<br> <br>10:00 | Keynote Speech<br>GF – Banquet Hall II   |   |   |
| 10:00<br> <br>10:30 | Coffee Break<br>GF – Banquet Hall  |   |   |
| 10:30<br> <br>12:00 | <b>Session C01</b><br>Intelligent Management<br>of e-Business                        | <b>Session C02</b><br>Intelligent Digital<br>Watermarking and Image<br>Processing | <b>Session C03</b><br>Intelligent Service |
|                     | Meeting Room -101  | Meeting Room -103   | Meeting Room -203                         |
| 12:00<br> <br>13:30 | Lunch<br>1F – Hoya Restaurant  |   |   |
| 13:30<br> <br>15:30 | <b>Session C04</b><br>Human Computer<br>Interaction                                  | <b>Session C05</b><br>Innovative Computing<br>Technology                          | <b>Session C06</b><br>Poster Session      |
|                     | Meeting Room -101  | Meeting Room -103   | Meeting Room -102                         |
| 15:30<br> <br>16:00 | Coffee Break<br>Meeting Room - 102   |   |   |
| 16:00<br> <br>18:00 | <b>Session C07</b><br>Innovation in Cloud<br>Computing Technology<br>and Application | <b>Session C08</b><br>Intelligent Signal<br>Processing and<br>Application         | <b>Session C09</b><br>Poster Session      |
|                     | Meeting Room -101  | Meeting Room -103   | Meeting Room -102                         |
| 18:30               | Farewell party<br>1F – Cantonese Restaurant  |   |   |

## **A01**

### **Multiple model approach to machine learning(1)**

#### **A01-01,ACIIDS-2012-IS01-05**

*DRFLogitBoost: A Double Randomized Decision Forest Incorporated with LogitBoosted Decision Stumps*

Zaman Md. Faisal, Sumi S. Monira, and Hideo Hirose

#### **A01-02,ACIIDS-2012-IS01-04**

*Learning and Inference Order in Structured Output Elements Classification*

Tomasz Kajdanowicz, and Przemyslaw Kazienko

#### **A01-03,ACIIDS-2012-IS01-03**

*Evaluating the Effectiveness of Intelligent Tutoring System Offering Personalized Learning Scenario*

Adrianna Kozierkiewicz-Hetmanska

#### **A01-04,ACIIDS-2012-IS01-02**

*Knowledge Discovery by an Intelligent Approach Using Complex Fuzzy Sets*

Chunshien Li, and Feng-Tse Chan

#### **A01-05,ACIIDS-2012-IS01-01**

*Integration of Multiple Fuzzy FP-trees*

Tzung-Pei Hong, Chun-Wei Lin, Tsung-Ching Lin, Yi-Fan Chen, and Shing-Tai Pan

#### **A01-06,ACIIDS-2012-0509**

*A quadratic algorithm for testing of omega-codes*

Nguyen Dinh Han, Phan Trung Huy, and Dang Quyet Thang

#### **A01-07,ACIIDS-2012-0089**

*A Study on the Modified Attribute Oriented Induction Algorithm of Mining the Multi-Value Attribute data*

Shu-Meng Huang, Ping-Yu Hsu, and Wan-Chih Wang

#### **A01-08,ACIIDS-2012-0049**

*A Hybrid Evolutionary Imperialist Competitive Algorithm (HEICA)*

Fatemeh Ramezani, Shahriar Lotfi, and M.A. Soltani-Sarvestani

## A02

### User Adaptive Systems(1)

#### **A02-01,ACIIDS-2012-IS02-05**

*Novel Criterion to Evaluate QoS of Localization Based Services*

Juraj Machaj, Peter Brida, and Norbert Majer

#### **A02-02,ACIIDS-2012-IS02-04**

*Proposal of User Adaptive Modular Localization System for Ubiquitous Positioning*

Jozef Benikovsky, Peter Brida, and Juraj Machaj

#### **A02-03,ACIIDS-2012-IS02-03**

*User Adaptivity in Smart Workplaces*

Peter Mikulecky

#### **A02-04,ACIIDS-2012-IS02-02**

*Adaptive Graphical User Interface Solution for Modern User Devices*

Miroslav Behan , and Ondrej Krejcar

#### **A02-05,ACIIDS-2012-IS02-01**

*Visualizing Human Genes on Manifolds Embedded in Three-dimensional Space*

Wei-Chen Cheng

#### **A02-06,ACIIDS-2012-0056**

*Two-Step Analysis of the Fetal Heart Rate Signal as a Predictor of Distress*

Robert Czabanski, Janusz Wrobel, Janusz Jezewski, and Michal Jezewski

## A03

### Agent System

#### **A03-0,ACIIDS-2012-0570**

*A Multi-agent Strategy for Integration of Imprecise Descriptions*

Grzegorz Skorupa, Wojciech Lorkiewicz, and Radosław Katarzyna

#### **A03-02,ACIIDS-2012-0485**

*Performance Evaluation of Multiagent-System Oriented Models for Efficient Power System Topology Verification*

Kazimierz Wilkosz, Zofia Kruczkiewicz, and Tomasz Babczyński

#### **A03-03,ACIIDS-2012-0476**

*Building a model of an Intelligent Multi-Agent System based on distributed knowledge bases for solving problems*

Nguyen Tran Minh Khue, and Nhon Van Do

#### **A03-04,ACIIDS-2012-0363**

*Temporal Reasoning in Multi-agent Workflow Systems based on Formal Models*

Fu-Shiung Hsieh, and Jim-Bon Lin

#### **A03-05,ACIIDS-2012-0317**

*Assessing Rice Area Infested by Brown Plant Hopper Using Agent-Based and Dynamically Upscaling Approach*

Vinh Gia Nhi Nguyen, Hiep Xuan Huynh, and Alexis Drogoul

#### **A03-06,ACIIDS-2012-0706**

*A Service Administration Design Pattern for Dynamically Configuring Communication Services in Autonomic Computing Systems*

Vishnuvardhan Mannava, and T. Ramesh

#### **A03-07,ACIIDS-2012-0032**

*Chemical Process Fault Diagnosis Based on Sensor Validation Approach*

Jialin Liu

## A04

### Multiple model approach to machine learning(2)

#### **A04-01,ACIIDS-2012-IS01-10**

*Decoding Cognitive States from Brain fMRIs: The “Most Differentiating Voxels” Way*  
Chittibabu Nambala, Rahul Erai, and Krithika Venkataramani

#### **A04-02,ACIIDS-2012-IS01-09**

*A Semi-Supervised Method for Discriminative Motif Finding and Its Application to Hepatitis C Virus Study*  
Thi Nhan Le, and Tu Bao Ho

#### **A04-03,ACIIDS-2012-IS01-08**

*Comparison of Cost for Zero-one and Stage-dependent Fuzzy Loss Function*  
Robert Burduk

#### **A04-04,ACIIDS-2012-IS01-07**

*Investigation of Rotation Forest Ensemble Method Using Genetic Fuzzy Systems for a Regression Problem*  
Tadeusz Lasota, Zbigniew Telec, Bogdan Trawiński, and Grzegorz Trawiński

#### **A04-05,ACIIDS-2012-IS01-06**

*Data with Shifting Concept Classification Using Simulated Recurrence*  
Piotr Sobolewski, and Michal Wozniak

#### **A04-06,ACIIDS-2012-0175**

*Neighborhood Selection and Eigenvalues for Embedding Data Complex in Low Dimension*  
Jiun-Wei Liou, and Cheng-Yuan Liou

#### **A04-07,ACIIDS-2012-0045**

*A Bit-chain Based Algorithm for Problem of Attribute Reduction*  
Thanh-Trung Nguyen, Viet-Long Huu Nguyen, and Phi-Khu Nguyen

## A05

### User Adaptive Systems(1)

#### **A05-01,ACIIDS-2012-IS02-08**

*Bio-inspired Genetic Algorithms on FPGA Evolvable Hardware*

Vladimir Kasik, Marek Penhaker, Vilem Novak, Radka Pustkova, and Frantisek Kutalek

#### **A05-02,ACIIDS-2012-IS02-07**

*Influence of the Number and Pattern of Geometrical Entities in the Image upon PNG Format Image Size*

Jiří Horák, Jan Růžička, Jan Novák, Jiří Ardielli, and Daniela Szturcová

#### **A05-03,ACIIDS-2012-IS02-06**

*Threading Possibilities of Smart Devices Platforms for Future User Adaptive System*

Ondrej Krejcar

#### **A05-04,ACIIDS-2012-0676**

*Content Based Human Retinal Image Retrieval using Vascular Feature Extraction*

Sivakamasundari J, Kavitha G, Natarajan V, and Ramakrishnan S

#### **A05-05,ACIIDS-2012-0608**

*Potential Topics Discovery from Topic Frequency Transition with Semi-supervised Learning*

Yoshiaki YASUMURA, Hiroyoshi TAKAHASHI, and Kuniaki UEHARA

#### **A05-06,ACIIDS-2012-0237**

*Evaluation of the Improved Penalty Avoiding Rational Policy Making Algorithm in Real World Environment*

Kazuteru Miyazaki, Masaki Itou, and Hiroaki Kobayashi

## **A06**

# **Ubiquitous Decision Support with Bayesian Network and Computational Creativity**

### **A06-01,ACIIDS-2012-IS03-06**

*The Impact of Human Brand Image Appeal on Visual Attention and Purchase Intentions at an E-commerce Website*

Young Wook Seo, Seong Wook Chae, and Kun Chang Lee

### **A06-02,ACIIDS-2012-IS03-05**

*Exploring Human Brands in Online Shopping: An Eye-tracking Approach*

Seong Wook Chae, Young Wook Seo, and Kun Chang Lee

### **A06-03,ACIIDS-2012-IS03-04**

*Task Performance under Stressed and Non-Stressed Conditions: Emphasis on Physiological Approaches*

Nam Yong Jo, Kun Chang Lee, and Dae Sung Lee

### **A06-04,ACIIDS-2012-IS03-03**

*Characteristics of Decision-making for Different Levels of Product Involvement Depending on the Degree of Trust Transfer: A Comparison of Cognitive Decision-making Criteria and Physiological Responses*

Min Hee Hahn, Do Young Choi, and Kun Chang Lee

### **A06-05,ACIIDS-2012-IS03-02**

*A Comparison of Buying Decision Patterns by Product Involvement: An Eye-Tracking Approach*

Do Young Choi, Min Hee Hahn, and Kun Chang Lee

### **A06-06,ACIIDS-2012-IS03-01**

*The Influence of Team-Member Exchange on Self-reported Creativity in the Korean Information and Communication Technology (ICT) Industry*

Dae Sung Lee, Kun Chang Lee, and Nam Yong Jo

## **B01**

### **Clustering technology**

#### **B01-01,ACIIDS-2012-0680**

*Approach to Image Segmentation Based on Interval Type-2 Fuzzy Subtractive Clustering*

Long Thanh Ngo , and Binh Huy Pham

#### **B01-02,ACIIDS-2012-0623**

*Improving Nearest Neighbor Classification by Elimination of Noisy Irrelevant Features*

M. Javad Zomorodian, Ali Adeli, Mehrnoosh Sinaee, and Sattar Hashemi

#### **B01-03,ACIIDS-2012-0351**

*Lattice Based Associative Classifier*

Naveen Kumar, Anamika Gupta, and Vasudha Bhatnagar

#### **B01-04,ACIIDS-2012-0291**

*An Efficient Clustering Algorithm Based on Histogram Threshold*

Shu-Ling Shieh, Tsu-Chun Lin, and Yu-Chin Szu

#### **B01-05,ACIIDS-2012-0275**

*A Resource Reuse Method in Cluster Sensor Networks in Ad Hoc Networks*

Mary Wu, InTaek Leem, Jason J. Jung, and ChongGun Kim

#### **B01-06,ACIIDS-2012-0243**

*Generation of Tag-based User Profiles for Clustering Users in a Social Music Site*

Hyon Hee Kim, Jinnam Jo, and Donggeon Kim

#### **B01-07,ACIIDS-2012-0203**

*A Proposed IPC-based Clustering and Applied to Technology Strategy Formulation*

Tzu-Fu Chiu, Chao-Fu Hong, and Yu-Ting Chiu

#### **B01-08,ACIIDS-2012-0159**

*Cluster Control Management as Cluster Middleware*

Rajermami Thinakaran, and Elankovan Sundararajan

## **B02**

### **Intelligent Systems(1)**

#### **B02-01,ACIIDS-2012-IS00-01**

*System Analysis Techniques in eHealth systems:a case study*  
Krzysztof Brzostowski, Jarosław Drapała, and Jerzy Świątek

#### **B02-02,ACIIDS-2012-IS07-06**

*Detection of Facial Features on Color Face Images*  
Hsueh-Wu Wang, Ying-Ming Wu, Yen-Ling Lu, and Ying-Tung Hsiao

#### **B02-03,ACIIDS-2012-IS07-05**

*Adaptive Learning Diagnosis Mechanisms for e-Learning*  
YuLung Wu

#### **B02-04,ACIIDS-2012-IS07-04**

*New Integration Technology for Video Virtual Reality*  
Wei-Ming Yeh

#### **B02-05,ACIIDS-2012-IS07-03**

*Innovative Semantic Web Services for Next Generation Academic Electronic Library via Web 3.0 via Distributed Artificial Intelligence*  
Hai-Cheng Chu, and Szu-Wei Yang

#### **B02-06,ACIIDS-2012-IS07-02**

*Using Fuzzy Reasoning Techniques and the Domain Ontology for Anti-Diabetic Drugs Recommendation*  
Shyi-Ming Chen, Yun-Hou Huang, Rung-Ching Chen, Szu-Wei Yang, and Tian-Wei Sheu

#### **B02-07,ACIIDS-2012-IS07-01**

*Content-Aware Image Resizing Based on Aesthetic*  
Jia-Shing Sheu, Yi-Ching Kao, and Hao Chu

#### **B02-08,ACIIDS-2012-0127**

*A functional knowledge model and application*

Nhon Do, and Thu\_Le Pham

## **B03**

### **Intelligent Supply Chains (ISC 2012)**

#### **B03-01,ACIIDS-2012-IS10-06**

*SMART Logistics Chain*

Arkadiusz Kawa

#### **B03-02,ACIIDS-2012-IS10-05**

*The Analysis of the Effectiveness of Computer Assistance in the Transformation of Explicit and Tactic Knowledge in the Course of Supplier Selection Process*

Karolina Werner, Lukasz Hadas, and Pawel Pawlewski

#### **B03-03,ACIIDS-2012-IS10-04**

*Virtual Logistics Clusters – IT Support for Integration*

Paulina Golinska, and Marcin Hajdul

#### **B03-04,ACIIDS-2012-IS10-03**

*Supply Chain Configuration in High-Tech Networks*

Arkadiusz Kawa, and Milena Ratajczak-Mrozek

#### **B03-05,ACIIDS-2012-IS10-02**

*Identification and Estimation of Factors Influencing Logistic Process Safety in a Network Context with the Use of Grey System Theory*

Rafal Mierzwiak, Karolina Werner, and Pawel Pawlewski

#### **B03-06,ACIIDS-2012-IS10-01**

*Implementation of Vendor Managed Inventory Concept by Multi-Dimensionally Versioned Software Agents*

Piotr Januszewski, and Waldemar Wieczerzycki

#### **B03-07,ACIIDS-2012-0112**

*An Improved Data Warehouse Model for RFID Data in Supply Chain*

Sima K.Moghaddam, Gholamreza Nakhaeizadeh, and Elham Naghizade Kakhki

## **B04**

### **Intelligent Media Processing**

**B04-01,ACIIDS-2012-0709**

*An Approach to CT Stomach Image Segmentation Using Modified Level Set Method*

Hersh J. Parmar, and S. Ramakrishnan

**B04-02,ACIIDS-2012-0466**

*On Fastest Optimal Parity Assignments in Palette Images*

Phan Trung Huy, Nguyen Hai Thanh, Tran Manh Thang, and Nguyen Tien Dat

**B04-03,ACIIDS-2012-0391**

*Setting Shape Rules for Handprinted Character Recognition*

Daw-Ran Liou, Chia-Ching Lin, and Cheng-Yuan Liou

**B04-04,ACIIDS-2012-0247**

*A Block-Based Orthogonal Locality Preserving Projection Method for Face Super-Resolution*

Shwu-Huey Yen, Che-Ming Wu, and Hung-Zhi Wang

**B04-05,ACIIDS-2012-0221**

*Note Symbol Recognition for Music Scores*

Xiaoxiang Liu

**B04-06,ACIIDS-2012-0118**

*Network Vulnerability Analysis Using Text Mining*

Chungang Liu, Jianhua Li, and Xiuzhen Chen

**B04-07,ACIIDS-2012-0104**

*Intelligent Information System for Interpretation of Dermatoglyphic Patterns of Down's Syndrome in Infants*

Hubert Wojtowicz, and Wieslaw Wajs

**B04-08,ACIIDS-2012-0059**

*Using a Neural Network to Generate a FIR Filter to Improves Digital Images Using a Discrete Convolution Operation*

Jakub Pęksiński, and Grzegorz Mikołajczak

## **B05**

### **Intelligent Systems(2)**

#### **B05-01,ACIIDS-2012-IS07-11**

*An Intelligent Infant Location System Based on RFID*

Shou-Hsiung Cheng

#### **B05-02,ACIIDS-2012-IS07-10**

*A Novel Choquet Integral Composition Forecasting Model Based on M-Density*

Hsiang-Chuan Liu, Shang-Ling Ou, Hsien-Chang Tsai, Yih-Chang Ou, and Yen-Kuei Yu

#### **B05-03,ACIIDS-2012-IS07-09**

*Aggregating Multiple Robots with Serialization*

Shota Sugiyama, Hidemi Yamachi, Munehiro Takimoto, and Yasushi Kambayashi

#### **B05-04,ACIIDS-2012-IS07-08**

*A Multi-attribute and Multi-valued Model for Fuzzy Ontology Integration on Instance Level*

Hai Bang Truong, and Ngoc Thanh Nguyen

#### **B05-05,ACIIDS-2012-IS07-07**

*Making Autonomous Robots Form Lines*

Keisuke Satta, Munehiro Takimoto, and Yasushi Kambayashi

#### **B05-06,ACIIDS-2012-0552**

*Genetic algorithm-based charging task scheduler for electric vehicles in smart transportation*

Junghoon Lee, Hye-Jin Kim, Gyung-Leen Park, and Hongbeom Jeon

#### **B05-07,ACIIDS-2012-0064**

*Self-Organizing Reinforcement Learning Model*

Chang-Hsian Uang, Jiun-Wei Liou, and Cheng-Yuan Liou

**B06**

## **Advances in Nature-Inspired Autonomic Computing and Networking**

**B06-01,ACIIDS-2012-IS12-02**

*Heuristic Energy-Efficient Routing Solutions to Extend the Lifetime of Wireless Ad-Hoc Sensor Networks*

Nguyen Thanh Tung

**B06-02,ACIIDS-2012-IS12-01**

*Formal Agent-Oriented Ubiquitous Computing: A Computational Intelligence Support for Information and Services Integration*

Phan Cong Vinh

**B06-03,ACIIDS-2012-0618**

*Prediction of Rainfall Time Series Using Modular RBF Neural Network Model Coupled with SSA and PLS*

Jiansheng Wu

**B06-04,ACIIDS-2012-0460**

*Heuristic Algorithms for Solving Survivability Problem in the Design of Last Mile Communication Networks*

Vo Khanh Trung, Nguyen Thi Minh, and Huynh Thi Thanh Binh

**B06-05,ACIIDS-2012-0715**

*HEp-2 Cell Images Classification Based on Textural and Statistic Features using Self-Organizing Map*

Yi-Chu Huang, Tsu-Yi Hsieh, Chin-Yuan Chang, Wei-Ta Cheng, Yu-Chih Lin, and Yu-Len Huang

**B06-06,ACIIDS-2012-0252**

*Identifying Smuggling Vessels with artificial neural network and logistics regression in criminal intelligence using vessels smuggling case data*

Chih-Hao Wen, Ping-Yu Hsu, Chung-yung Wang, and Tai-Long Wu

**B06-07,ACIIDS-2012-0379**

*Replication Techniques in Data Grid Environments*

Noriyani Mohd Zin, A.Noraziah, Ainul Azila Che Fauzi, and Tutut Herawan

**B06-08,ACIIDS-2012-IS11-01**

*On Cloud Computing Security Issues*

Ainul Azila Che Fauzi, A. Noraziah, Tutut Herawan, and Noriyani Mohd Zin

**B07**

**Modelling and Optimization Techniques in  
Information Systems, Database Systems and  
Industrial Systems**

**B07-01,ACIIDS-2012-IS13-05**

*Hybrid Genetic Simulated Annealing Algorithm (HGSAA) to Solve Storage Container Problem in Port*

Riadh Moussi, Ndèye Fatma Ndiaye, and Adnan Yassine

**B07-02,ACIIDS-2012-IS13-04**

*Satellite Payload Reconfiguration Optimisation: an ILP Model*

Apostolos Stathakis, Grégoire Danoy, Pascal Bouvry, and Gianluigi Morelli

**B07-03,ACIIDS-2012-IS13-02**

*DC Programming and DCA for Large-scale Two-dimensional Packing Problems*

Babacar Mbaye Ndiaye, Le Thi Hoai An, Pham Dinh Tao, and Yi Shuai Niu

**B07-04,ACIIDS-2012-IS13-01**

*Gaussian Kernel Minimum Sum-of-Squares Clustering and Solution Method based on DCA*

LE Hoai Minh, LE Thi Hoai An, and PHAM Dinh Tao

**B07-05,ACIIDS-2012-0721**

*DB Schema based Ontology Construction for Efficient RDB Query*

Hyun Jung Lee, and Mye Sohn

**B07-06,ACIIDS-2012-0300**

*RF-PCA2: An Improvement on Robust Fuzzy PCA*

Gyeongyong Heo, Kwang-Baek Kim, Young Woon Woo, and Seong Hoon Kim

**B07-07,ACIIDS-2012-0269**

*Structures of Association Rule Set*

Anh Tran, Tin Truong, and Bac Le

**B07-08,ACIDS-2012-0107**

*Database Integrity Mechanism between OLTP and Offline Data*

Muhammad Salman, Nafees Ur Rehman, and Muhammad Shahid

## **B08**

### **Intelligent Systems(3)**

#### **B08-01,ACIIDS-2012-IS07-16**

*Facial Feature Extraction and Applications: A Review*

Ying-Ming Wu, Hsueh-Wu Wang, Yen-Ling Lu, Shin Yen, and Ying-Tung Hsiao

#### **B08-02,ACIIDS-2012-IS07-15**

*Local Neighbor Enrichment for Ontology Integration*

Trong Hai Duong, Hai Bang Truong, and Ngoc Thanh Nguyen

#### **B08-03,ACIIDS-2012-IS07-14**

*An Intelligently Remote Infant Monitoring System Based on RFID*

Shou-Hsiung Cheng

#### **B08-04,ACIIDS-2012-IS07-13**

*An Intelligent Infant Monitoring System Using Active RFID*

Shou-Hsiung Cheng

#### **B08-05,ACIIDS-2012-IS07-12**

*Fuzzy Decision Making for Diagnosing Machine Fault*

Lily Lin, Huey-Ming Lee, and Jin-Shieh Su

#### **B08-06,ACIIDS-2012-0080**

*Similarity Search in Streaming Time Series based on MP\_C Dimensionality Reduction Method*

Thanh-Son Nguyen, and Tuan-Anh Duong

## **B09**

### **Computational Intelligence**

**B09-01,ACIIDS-2012-0673**

*Semi-parametric Smoothing Regression Model Based on GA for Financial Time Series Forecasting*

Lingzhi Wang

**B09-02,ACIIDS-2012-0667**

*Classification of Respiratory abnormalities using Adaptive Neuro Fuzzy Inference System*

Mythili Asaithambi, Sujatha C Manoharan, and Srinivasan Subramanian

**B09-03,ACIIDS-2012-0437**

*An Ant Colony Optimization and Bayesian Network Structure Application for the Asymmetric Traveling Salesman Problem*

Nai-Hua Chen

**B09-04,ACIIDS-2012-0366**

*Expert Pruning Based on Genetic Algorithm in Regression Problems*

S.A.Jafari, S.Mashohor, Abd. R. Ramli, and M. Hamiruce Marhaban

**B09-05,ACIIDS-2012-0233**

*A Hybrid CS/PSO Algorithm for Global Optimization*

Amirhossein Ghodrati, and Shahriar Lotfi

**B09-06,ACIIDS-2012-0156**

*A Hybrid ICA/PSO Algorithm by Adding Independent Countries for Large Scale Global Optimization*

Amirhossein Ghodrati, Mohammad V. Malakooti, and Mansooreh Soleimani

**B09-07,ACIIDS-2012-0084**

*The Modified Differential Evolution Algorithm (MDEA)*

Fatemeh Ramezani, and Shahriar Lotfi

**B09-08,ACIIDS-2012-0074**

*Quad Countries Algorithm (QCA)*

M. A. Soltani-Sarvestani, Shahriar Lotfi, and Fatemeh Ramezani

# C01

## Intelligent Management of e-Business

### **C01-01,ASIIDS-2012-IS09-03**

*Towards Robotics Leadership: An Analysis of Leadership Characteristics and the Roles Robots will Inherit in Future Human Society*

Hooman Aghaebrahimi Samani, Jeffrey Tzu Kwan Valino Koh, Elham Saadatian, and Doros Polydorou

### **C01-02,ACIIDS-2012-IS08-05**

*Understanding Information Propagation on Online Social Tagging Systems: A Case Study on Flickr*

Meinu Quan, Xuan Hau Pham, Jason J. Jung, and Dosam Hwang

### **C01-03,ACIIDS-2012-IS08-02**

*Why People Share Information in Social Network Sites? Integrating with Uses and Gratification and Social Identity Theories*

Namho Chung, Chulmo Koo, and Seung-Bae Park

### **C01-04,ACIIDS-2012-IS08-01**

*The Impact of Data Environment and Profitability on Business Intelligence Adoption*

Chien-wen Shen, Ping-Yu Hsu, and Yen-Ting Peng

### **C01-05,ACIIDS-2012-0323**

*The Relationships between Information Technology, E-Commerce, and E-Finance in the Financial Institutions: Evidence from the Insurance Industry*

Hong-Jen Lin, Min-Ming Wen, and Winston T. Lin

### **C01-06,ACIIDS-2012-0217**

*Applying data mining in money laundering detection for the Vietnamese banking industry*

Dang Khoa Cao, and Phuc Do

### **C01-07,ACIIDS-2012-0499**

*A Web Services Based Solution for Online Loan Management via Smartphone*

Théophile K. Dagba, Ercias Lohounmè, and Ange Nambila

## C02

# Intelligent Digital Watermarking and Image Processing

### **C02-01,ACIIDS-2012-IS06-08**

*A Novel Nonparametric Approach for Saliency Detection using Multiple Features*

Xin He, Huiyun Jing, Qi Han, and Xiamu Niu

### **C02-02,ACIIDS-2012-IS06-07**

*Motion Vector based Information Hiding Algorithm for H.264/AVC against Motion Vector Steganalysis*

Huiyun Jing, Xin He, Qi Han, and Xiamu Niu

### **C02-03,ACIIDS-2012-IS06-06**

*A Novel Coding Method for Multiple System Barcode Based on QR Code*

Xiamu Niu, Zhongwei Shuai, Yongqiang Lin, and Xuehu Yan

### **C02-04,ACIIDS-2012-IS06-05**

*A Research on Behavior of Sleepy Lizards Based on KNN Algorithm*

Xiaolv Guo, Shu-Chuan Chu, Lin-Lin Tang, John F. Roddick, and Jeng-Shyang Pan

### **C02-05,ACIIDS-2012-IS06-04**

*Directional Discriminant Analysis based on Nearest Feature Line*

Lijun Yan, Shu-Chuan Chu, John F. Roddick, and Jeng-Shyang Pan

### **C02-06,ACIIDS-2012-IS06-03**

*A (2, 2) Secret Sharing Scheme based on Hamming Code and AMBTC*

Cheonshik Kim, Dongkyoo Shin, Dongil Shin, and Ching-Nung Yang

### **C02-07,ACIIDS-2012-IS06-02**

*An Automatic Image Inpainting Method for Rigid Moving Object*

Jen-Chi Huang, and Wen-Shyong Hsieh

### **C02-08,ACIIDS-2012-IS06-01**

*Automatic Image Matting using Component-Hue-Difference-based Spectral Matting*

Wu-Chih Hu, and Jung-Fu Hsu

## C03

### Intelligent Service

#### **C03-01,ACIIDS-2012-0687**

*Intelligence Decision Trading Systems for Stock Index*

Monruthai Radeerom, Hataitep Wongsuwarn , and M.L. Kulthon Kasemsan

#### **C03-02,ACIIDS-2012-0592**

*Anomaly Detection System Based on Service Oriented Architecture*

Grzegorz Kolaczek, and Agnieszka Prusiewicz

#### **C03-03,ACIIDS-2012-0294**

*Efficient Data Update for Location-based Recommendation Systems*

Narin Jantaraprapa, and Juggapong Natwichai

#### **C03-04,ACIIDS-2012-0564**

*Combining Topic Model and Co-author Network for KAKEN and DBLP linking*

Duy-Hoang Tran, Hideaki Takeda, Kei Kurakawa, and Minh-Triet Tran

#### **C03-05,ACIIDS-2012-0408**

*PLR: A Benchmark for Probabilistic Data Stream Management Systems*

Armita Karachi, Mohammad G. Dezfuli, and Mostafa S. Haghjoo

#### **C03-06,ACIIDS-2012-0328**

*Mining Same-taste Users with Common Preference Patterns for Ubiquitous*

*Exhibition Navigation*

Shin-Yi Wu, and Li-Chen Cheng

#### **C03-07,ACIIDS-2012-0265**

*Publication Venue Recommendation using Author Network's Publication History*

Hiep Luong, Tin Huynh, Susan Gauch, Loc Do, and Kiem Hoang

#### **C03-08,ACIIDS-2012-0255**

*A Query Language for WordNet-like Lexical Databases*

Marek Kubis



## C04

### Human Computer Interaction

#### **C04-01,ACIIDS-2012-0691**

*An Aspectual Feature Module Based Adaptive Design Pattern for Autonomic Computing Systems*

Vishnuvardhan Mannava, and T. Ramesh

#### **C04-02,ACIIDS-2012-0684**

*Malay Anaphor and Antecedent Candidate Identification: A Proposed Solution*

Norhuzaimi Karimah Mohd Noor, Shahrul Azman Noah, Mohd Juzaidin Ab Aziz, and Mohd Pouzi Hamzah

#### **C04-03,ACIIDS-2012-0588**

*Ranking Semantic Associations between Two Entities – Extended Model*

V. Viswanathan, and Ilango Krishnamurthi

#### **C04-04,ACIIDS-2012-0546**

*The Quantum of Language. A Metaphorical View of Mind Dimension.*

Svetlana Machova , and Jana Kleckova

#### **C04-05,ACIIDS-2012-0402**

*An Experimental Study to Explore Usability Problems of Interactive Voice Response Systems*

Hee-Cheol Kim

#### **C04-06,ACIIDS-2012-0396**

*Using Eyetracking in a Mobile Applications Usability Testing*

Piotr Chynał, Jerzy M. Szymański, and Janusz Sobecki

#### **C04-07,ACIIDS-2012-0357**

*An Approach for Improving Thai Text Entry on Touch Screen Mobile Devices based on Bivariate Normal Distribution and Probabilistic Language Model*

Thitiya Phanchaipetch, and Cholwich Nattee

#### **C04-08,ACIIDS-2012-0178**

*An Iterative Stemmer for Tamil Language*

Vivek Anandan Ramachandran, and Ilango Krishnamurthi

## C05

### Innovative Computing Technology

**C05-01,ACIIDS-2012-0579**

*An Efficient Information System Generator*

Ling-Hua Chang, and Sanjiv Behl

**C05-02,ACIIDS-2012-0558**

*A Temporal Data Model for Intelligent Synchronized Multimedia Integration*

Anthony Y. Chang

**C05-03,ACIIDS-2012-0526**

*Novel Blind Video Forgery Detection Using Markov Models on Motion Residue*

Kesav Kancherla, and Srinivas Mukkamala

**C05-04,ACIIDS-2012-0450**

*Sports Video Classification using Bag of Words Model*

Dinh Duong, Thang Ba Dinh, Tien Dinh, and Duc Duong

**C05-05,ACIIDS-2012-0278**

*Self Health Diagnosis System with Korean Traditional Medicine Using Fuzzy ART and Fuzzy Inference Rules*

Kwang-Baek Kim, and Jin-Whan Kim

**C05-06,ACIIDS-2012-IS14-04**

*Real-Time Remote ECG Signal Monitor and Emergency Warning/Positioning System on Cellular Phone*

Shih-Hao Liou, Yi-Heng Wu, Yi-Shun Syu, Yi-Lan Gong, Hung-Chin Chen, and Shing-Tai Pan

**C05-07,ACIIDS-2012-IS14-03**

*Reliability Sequential Sampling Test based on Exponential Lifetime Distributions under Fuzzy Environment*

Tien-Tsai Huang, Chien-Ming Huang, and Kevin Kuan-Shun Chiu

**C05-08,ACIIDS-2012-IS14-01**

*Adaptive Performance for VVoIP Implementation in Cloud Computing Environment*

Bao Rong Chang, Hsiu-Fen Tsai, Zih-Yao Lin, Chi-Ming Chen, and Chien-Feng Huang

## C07

# Intelligent Digital Watermarking and Image Processing

### **C07-01,ACIIDS-2012-IS11-04**

*Implementation of Indoor Positioning Using Signal Strength from Infrastructures*

Yuh-Chung Lin, Chin-Shiuh Shieh, Kun-Mu Tu, and Jeng-Shyang Pan

### **C07-02,ACIIDS-2012-IS11-03**

*Dual Migration for Improved Efficiency in Cloud Service*

Wei Kuang Lai, Kai-Ting Yang, Yuh-Chung Lin, and Chin-Shiuh Shieh

### **C07-03,ACIIDS-2012-0337**

*Integrating Bibliographical Data of Computer Science Publications from Online Digital Libraries*

Tin Huynh, Hiep Luong, and Kiem Hoang

### **C07-04,ACIIDS-2012-0227**

*Rural Residents' Perceptions and Needs of Telecare in Taiwan*

Bi-Kun Chuang, and Chung-Hung Tsai

### **C07-05,ACIIDS-2012-0189**

*Renewable Energy and Power Management in Smart Transportation*

Junghoon Lee, Hye-Jin Kim, and Gyung-Leen Park

### **C07-06,ACIIDS-2012-0169**

*A Cloud Computing Implementation of XML Indexing Method Using Hadoop*

Wen-Chiao Hsu, I-En Liao, and Hsiao-Chen Shih

### **C07-07,ACIIDS-2012-0053**

*Constraint-based Charging Scheduler Design for Electric Vehicles*

Hye-Jin Kim, Junghoon Lee, and Gyung-Leen Park

### **C07-08,ACIIDS-2012-0040**

*Modular Arithmetic and Fast Algorithm Designed for Modern Computer Security*

*Applications*  
Chia-Long Wu

## C08

### Intelligent Signal Processing and Application

#### **C08-01,ACIIDS-2012-0726**

*Reversible Data Hiding with Hierarchical Relationships*

Hsiang-Cheh Huang, Kai-Yi Huang, and Feng-Cheng Chang

#### **C08-02,ACIIDS-2012-0426**

*Effect of Density of Measurement Points Collected from a Multibeam Echosounder on the Accuracy of a Digital Terrain Model*

Wojciech Maleika, Michal Palczynski , and Dariusz Frejlichowski

#### **C08-03,ACIIDS-2012-0422**

*Interpolation Methods and the Accuracy of Bathymetric Seabed Models Based on Multibeam Echosounder Data*

Wojciech Maleika, Michal Palczynski , and Dariusz Frejlichowski

#### **C08-04,ACIIDS-2012-0405**

*Quantitative Measurement for Pathological Change of Pulley Tissue from Microscopic Images via Color-Based Segmentation*

Yung-Chun Liu, Hui-Hsuan Shih, Tai-Hua Yang, Hsiao-Bai Yang, Dee-Shan Yang, and Yung-Nien Sun

#### **C08-05,ACIIDS-2012-0320**

*Quantitative Measurement of Nerve Cells and Myelin Sheaths from Microscopic Images via Two-Stage Segmentation*

Yung-Chun Liu, Chih-Kai Chen, Hsin-Chen Chen, Syu-Huai Hong, Cheng-Chang Yang, I-Ming Jou, and Yung-Nien Sun

#### **C08-06,ACIIDS-2012-0099**

*Segmentation and Visualization of Tubular Structures in Computed Tomography Angiography*

Tomasz Hachaj, and Marek R. Ogiela

#### **C08-07,ACIIDS-2012-0644**

*Incorporating Hierarchical Information into the Matrix Factorization Model for*

*Collaborative Filtering*

Ali Mashhoori, and Sattar Hashemi

**C08-08,ACIIDS-2012-0385**

*Optical Flow-based Bird Tracking and Counting for Congregating Flocks*

ing Yi Tou, and Chen Chuan Toh