## ACIIDS2012 Agenda

### March 19, 2012 (Monday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Opening</td>
<td>GF – Banquet Hall II</td>
</tr>
<tr>
<td>09:30</td>
<td>Keynote Speech</td>
<td>GF – Banquet Hall II</td>
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<tr>
<td>10:30</td>
<td>Coffee Break</td>
<td>GF – Banquet Hall</td>
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<tr>
<td>11:00</td>
<td>Keynote Speech</td>
<td>GF – Banquet Hall II</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
<td>1F – Hoya Restaurant</td>
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<tr>
<td>13:30</td>
<td><strong>Session A01</strong> Multiple model approach to machine learning (1)</td>
<td>Meeting Room -101</td>
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<tr>
<td>15:30</td>
<td><strong>Session A02</strong> User Adaptive Systems (1)</td>
<td>Meeting Room -103</td>
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<tr>
<td>16:00</td>
<td><strong>Session A03</strong> Agent System</td>
<td>Meeting Room -203</td>
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<tr>
<td>16:00</td>
<td><strong>Session A04</strong> Multiple model approach to machine learning (2)</td>
<td>Meeting Room -101</td>
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<tr>
<td>16:00</td>
<td><strong>Session A05</strong> User Adaptive Systems (2)</td>
<td>Meeting Room -103</td>
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<tr>
<td>16:00</td>
<td><strong>Session A06</strong> Ubiquitous Decision Support with Bayesian Network and Computational Creativity</td>
<td>Meeting Room -203</td>
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<tr>
<td>18:30</td>
<td>Welcome Reception</td>
<td>GF – Banquet Hall I</td>
</tr>
<tr>
<td>Time</td>
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<tr>
<td>09:00</td>
<td>Keynote Speech</td>
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<td>10:00</td>
<td>Coffee Break</td>
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<tr>
<td>10:30</td>
<td><strong>Session B01</strong></td>
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<tr>
<td></td>
<td>Clustering technology</td>
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<tr>
<td>10:30</td>
<td><strong>Session B02</strong></td>
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<tr>
<td></td>
<td>Intelligent Systems (1)</td>
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<tr>
<td>10:30</td>
<td><strong>Session B03</strong></td>
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<tr>
<td></td>
<td>Intelligent Supply Chains</td>
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<td>12:00</td>
<td>Lunch</td>
<td>1F – Hoya Restaurant</td>
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<tr>
<td>12:00</td>
<td><strong>Session B04</strong></td>
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<tr>
<td></td>
<td>Intelligent Media Processing</td>
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<tr>
<td>13:30</td>
<td><strong>Session B05</strong></td>
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<tr>
<td></td>
<td>Intelligent Systems (2)</td>
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<tr>
<td>13:30</td>
<td><strong>Session B06</strong></td>
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<tr>
<td></td>
<td>Advances in Nature-Inspired Autonomic Computing and Networking</td>
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<tr>
<td>15:30</td>
<td>Coffee Break</td>
<td>Meeting Room -102</td>
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<tr>
<td>15:30</td>
<td><strong>Session B07</strong></td>
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<td></td>
<td>Modelling and Optimization Techniques in Information Systems, Database Systems and Industrial Systems</td>
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<tr>
<td>16:00</td>
<td><strong>Session B08</strong></td>
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<td></td>
<td>Intelligent Systems (3)</td>
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<tr>
<td>16:00</td>
<td><strong>Session B09</strong></td>
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<tr>
<td></td>
<td>Computational Intelligence</td>
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<tr>
<td>18:30</td>
<td>Banquet</td>
<td>GF – Banquet Hall II</td>
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<tr>
<td>Time</td>
<td>Session C01</td>
<td>Session C02</td>
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<tr>
<td>09:00</td>
<td>Keynote Speech</td>
<td>Coffee Break</td>
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<tr>
<td>10:00</td>
<td>GF – Banquet Hall II</td>
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<tr>
<td>10:00</td>
<td>Session C01: Intelligent Management of e-Business</td>
<td>Session C02: Intelligent Digital Watermarking and Image Processing</td>
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<td>10:30</td>
<td>Meeting Room -101</td>
<td>Meeting Room -103</td>
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<td>12:00</td>
<td>Lunch</td>
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<td>12:00</td>
<td>1F – Hoya Restaurant</td>
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<tr>
<td>13:30</td>
<td>Session C04: Human Computer Interaction</td>
<td>Session C05: Innovative Computing Technology</td>
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<tr>
<td>15:30</td>
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<td>Meeting Room -103</td>
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<tr>
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<td>Coffee Break</td>
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<tr>
<td>16:00</td>
<td>Meeting Room -102</td>
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<tr>
<td>16:00</td>
<td>Session C07: Innovation in Cloud Computing Technology and Application</td>
<td>Session C08: Intelligent Signal Processing and Application</td>
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<td>18:00</td>
<td>Meeting Room -101</td>
<td>Meeting Room -103</td>
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<tr>
<td>18:30</td>
<td>Farewell party</td>
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<td>1F – Cantonese Restaurant</td>
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The 4th Asian Conference on Intelligent
Information and Database Systems

March 19 - 21, 2012, Kaohsiung, Taiwan
http://bit.kuas.edu.tw/~aciids12

Conference Program

March 19, 2012

Opening.................................09:00-09:30
Keynote Speech I..........................09:30-10:30
Coffee Break............................10:30-11:00
Keynote Speech II..........................11:00-12:00
Lunch........................................12:00-13:30
Sessions A01-A03.........................13:30-15:30
Coffee Break............................15:30-16:00
Sessions A04-A06.........................16:00-18:00
Welcome Reception......................18:30-20:30

March 20, 2012

Keynote Speech III......................09:00-10:00
Coffee Break............................10:00-10:30
Sessions B01-B03.........................10:30-12:00
Lunch........................................12:00-13:30
Sessions B04-B06.........................13:30-15:30
Coffee Break............................15:30-16:00
Sessions B07-B09.........................16:00-18:00
Conference Banquet.....................18:30-20:30
March 21, 2012

Keynote Speech IV........................................09:00-10:00
Coffee Break..............................................10:00-10:30
Sessions C01-C03........................................10:30-12:00
Lunch.......................................................12:00-13:30
Sessions C04-C05........................................13:30-15:30
Coffee Break..............................................15:30-16:00
Sessions C07-C08........................................16:00-18:00
Farewell Party.............................................18:30-20:30
Session List

March 19, 2012, 13:30-15:30
A01: Multiple model approach to machine learning (1)
A02: User Adaptive Systems (1)
A03: Agent System

March 19, 2012, 16:00-18:00
A04: Multiple model approach to machine learning (2)
A05: User Adaptive Systems (2)
A06: Ubiquitous Decision Support with Bayesian Network and Computational Creativity

March 20, 2012, 10:30-12:00
B01: Clustering technology
B02: Intelligent Systems (1)
B03: Intelligent Supply Chains (ISC 2012)

March 20, 2012, 13:30-15:30
B04: Intelligent Media Processing
B05: Intelligent Systems (2)
B06: Advances in Nature-Inspired Autonomic Computing and Networking

March 20, 2012, 16:00-18:00
B07: Modeling and Optimization Techniques in Information Systems, Database Systems and Industrial Systems
B08: Intelligent Systems (3)
B09: Computational Intelligence

March 21, 2012, 10:30-12:00
C01: Intelligent Management of e-Business
C02: Intelligent Digital Watermarking and Image Processing
C03: Intelligent Service

March 21, 2012, 13:30-15:30
C04: Human Computer Interaction
C05: Innovative Computing Technology

March 21, 2012, 13:30-15:30
C07: Innovation in Cloud Computing Technology and Application
C08: Intelligent Signal Processing and Application
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 Lotfì, 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

A03-01, ACIIDS-2012-0570
A Multi-agent Strategy for Integration of Imprecise Descriptions
Grzegorz Skorupa, Wojciech Lorkiewicz, and Radosław Katarzyniak

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
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
A05-01, 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*
Rajermani 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
<table>
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<th>Authors</th>
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<tr>
<td><strong>SMART Logistics Chain</strong></td>
<td>Arkadiusz Kawa</td>
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<tr>
<td><strong>The Analysis of the Effectiveness of Computer Assistance in the Transformation of Explicit and Tactic Knowledge in the Course of Supplier Selection Process</strong></td>
<td>Karolina Werner, Lukasz Hadas, and Pawel Pawlewski</td>
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<td><strong>Virtual Logistics Clusters – IT Support for Integration</strong></td>
<td>Paulina Golinska, and Marcin Hajdul</td>
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<td><strong>Supply Chain Configuration in High-Tech Networks</strong></td>
<td>Arkadiusz Kawa, and Milena Ratajczak-Mrozek</td>
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<td><strong>Identification and Estimation of Factors Influencing Logistic Process Safety in a Network Context with the Use of Grey System Theory</strong></td>
<td>Rafal Mierzwiaik, Karolina Werner, and Pawel Pawlewski</td>
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<td><strong>Implementation of Vendor Managed Inventory Concept by Multi-Dimensionally Versioned Software Agents</strong></td>
<td>Piotr Januszewski, and Waldemar Wieczerzycki</td>
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<tr>
<td><strong>An Improved Data Warehouse Model for RFID Data in Supply Chain</strong></td>
<td>Sima K.Moghaddam, Gholamreza Nakhaeizadeh, and Elham Naghizade Kakhki</td>
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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 Pęksięński, 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
B06-01, 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 Kanh 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

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Ainul Azila Che Fauzi, A. Noraziah, Tutut Herawan, and Noriyani Mohd Zin
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Riadh Moussi, Ndèye Fatma Ndiaye, and Adnan Yassine

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

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

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Shou-Hsiung Cheng

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An Intelligent Infant Monitoring System Using Active RFID
Shou-Hsiung Cheng

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Thanh-Son Nguyen, and Tuan-Anh Duong
B09
Computational Intelligence

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Lingzhi Wang

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C01
Intelligent Management of e-Business

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Dang Khoa Cao, and Phuc Do

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Intelligent Digital Watermarking and Image Processing

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

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Wu-Chih Hu, and Jung-Fu Hsu
C03

Intelligent Service

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

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

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

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A Query Language for WordNet-like Lexical Databases
Marek Kubis
C04

Human Computer Interaction

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*An Aspectual Feature Module Based Adaptive Design Pattern for Autonomic Computing Systems*
Vishnuvardhan Mannava, and T. Ramesh

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*Malay Anaphor and Antecedent Candidate Identification: A Proposed Solution*
Norhuzaizmi Karimah Mohd Noor, Shahrul Azman Noah, Mohd Juzaiddin Ab Aziz, and Mohd Pouzi Hamzah

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Hee-Cheol Kim

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Thitiya Phanchaipetch, and Cholwich Nattee

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*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

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Novel Blind Video Forgery Detection Using Markov Models on Motion Residue
Kesav Kancherla, and Srinivas Mukkamala

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Sports Video Classification using Bag of Words Model
Dinh Duong, Thang Ba Dinh, Tien Dinh, and Duc Duong

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Kwang-Baek Kim, and Jin-Whan Kim

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

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Reliability Sequential Sampling Test based on Exponential Lifetime Distributions under Fuzzy Environment
Tien-Tsai Huang, Chien-Ming Huang, and Kevin Kuan-Shun Chiu

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Adaptive Performance for VoIP Implementation in Cloud Computing Environment
Bao Rong Chang, Hsiu-Fen Tsai, Zih-Yao Lin, Chi-Ming Chen, and Chien-Feng Huang
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Yuh-Chung Lin, Chin-Shiuh Shieh, Kun-Mu Tu, and Jeng-Shyang Pan

C07-02, ACIIDS-2012-IS11-03
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Wei Kuang Lai, Kai-Ting Yang, Yuh-Chung Lin, and Chin-Shiuh Shieh

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Tin Huynh, Hiep Luong, and Kiem Hoang

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Chia-Long Wu
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Hsiang-Cheh Huang, Kai-Yi Huang, and Feng-Cheng Chang

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Wojciech Maleika, Michal Palczynski, and Dariusz Frejlichowski

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Interpolation Methods and the Accuracy of Bathymetric Seabed Models Based on Multibeam Echosounder Data
Wojciech Maleika, Michal Palczynski, and Dariusz Frejlichowski

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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

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Quantitative Measurement of Nerve Cells and Myelin Sheaths from Microscopic Images via Two-Staged Segmentation
Yung-Chun Liu, Chih-Kai Chen, Hsin-Chen Chen, Syu-Huai Hong, Cheng-Chang Yang, I-Ming Jou, and Yung-Nien Sun

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Segmentation and Visualization of Tubular Structures in Computed Tomography Angiography
Tomasz Hachaj, and Marek R. Ogiela

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Ali Mashhoori, and Sattar Hashemi

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Jing Yi Tou, and Chen Chuan Toh