

## November 10, 2010

09 : 00 ~ 09 : 30	Opening – BANQUET HALL (M3F)
09 : 30 ~ 10 : 40	Plenary Speech (I) – BANQUET HALL (M3F)
10 : 40 ~ 11 : 00	Coffee Break – BANQUET HALL (M3F)
11 : 00 ~ 12 : 10	Plenary Speech (II) – BANQUET HALL (M3F)
12 : 10 ~ 13 : 30	Lunch – AUSPICIOUS GARDEN (5F)
13 : 30 ~ 15 : 30	<b>Session-A1</b> Collective Intelligence in Web Systems - Web Systems Analysis (GOLDEN LION ROOM)
	<b>Session-B1</b> Intelligent Computing for Data Security (BALSAM ROOM)
	<b>Session-C1</b> Intelligent Computing for Image Analysis (PHOENIX ROOM)
	<b>Session-P1</b> Post and Exhibition (DRAGON HALL)
15 : 30 ~ 15 : 50	Coffee Break – DRAGON HALL (7F)
15 : 50 ~ 17 : 50	<b>Session-A2</b> Novel Approaches to Collective Computations and Systems (GOLDEN LION ROOM)
	<b>Session-B2</b> Innovations in Pervasive Computing (BALSAM ROOM)
	<b>Session-C2</b> Intelligent Digital Watermarking and Pattern Recognition (PHOENIX ROOM)
	<b>Session-P2</b> Post and Exhibition (DRAGON HALL)
18 : 00 ~ 20 : 30	Reception – PEONY (M3F)

## November 11, 2010

09 : 00 ~ 10 : 10	Plenary Speech (III) – BANQUET HALL (M3F)
10 : 10 ~ 10 : 30	Coffee Break – DRAGON HALL (7F)
10 : 30 ~ 12 : 30	<b>Session-A3</b> Agent System (GOLDEN LION ROOM)
	<b>Session-B3</b> Intelligent Systems (BALSAM ROOM)
	<b>Session-C3</b> Intelligent Technologies for Medical Related Applications (PHOENIX ROOM)
	<b>Session-P3</b> Post and Exhibition (DRAGON HALL)
12 : 30 ~ 13 : 30	Lunch – AUSPICIOUS GARDEN (5F)
13 : 30 ~ 15 : 30	<b>Session-A4</b> CCI-based Optimization Models (GOLDEN LION ROOM)
	<b>Session-B4</b> Intelligent Signal Processing for Human-Machine Interaction (BALSAM ROOM)
	<b>Session-C4</b> Innovations in Computation and Application (PHOENIX ROOM)
	<b>Session-P4</b> Post and Exhibition (DRAGON HALL)
15 : 30 ~ 15 : 50	Coffee Break – DRAGON HALL (7F)
15 : 50 ~ 17 : 50	<b>Session-A5</b> Novel Approaches to Intelligent Applications (GOLDEN LION ROOM)
	<b>Session-B5</b> Social Networks (BALSAM ROOM)
	<b>Session-C5</b> Innovative Information System and Application (PHOENIX ROOM)
	<b>Session-P5</b> Post and Exhibition (DRAGON HALL)
18 : 00 ~ 20 : 30	Banquet – BANQUET HALL (M3F)

## November 12, 2010

09 : 00 ~ 10 : 10	Plenary Speech (IV) – BANQUET HALL (M3F)
10 : 10 ~ 10 : 30	Coffee Break – DRAGON HALL (7F)
10 : 30 ~ 12 : 30	<b>Session-A6</b> Advanced Knowledge Management (GOLDEN LION ROOM)
	<b>Session-B6</b> Soft Computing to Industrial Management & Applications (BALSAM ROOM)
	<b>Session-P6</b> Post and Exhibition (DRAGON HALL)
12 : 30 ~ 13 : 30	Lunch – AUSPICIOUS GARDEN (5F)
13 : 30 ~ 15 : 30	<b>Session-A7</b> Intelligent Computing for Networks (GOLDEN LION ROOM)
	<b>Session-B7</b> Biological Computing (BALSAM ROOM)
	<b>Session-P7</b> Post and Exhibition (DRAGON HALL)
15 : 30 ~ 15 : 50	Coffee Break – DRAGON HALL (7F)
15 : 50 ~ 17 : 50	<b>Session-A8</b> Quantitative Management of Technology (GOLDEN LION ROOM)
	<b>Session-B8</b> Intelligent Systems and Applications (BALSAM ROOM)
	<b>Session-P8</b> Post and Exhibition (DRAGON HALL)
18 : 00 ~ 20 : 30	Farewell Party – PEONY (M3F)

## **Session-A1**

### *Collective Intelligence in Web Systems - Web Systems Analysis*

#### **A1-01, ICCCI-2010-SS01-02**

*Real Anomaly Detection in Telecommunication Multidimensional Data Using Data Mining Techniques*

Kazimierz Choroś

Wrocław University of Technology, Poland

#### **A1-02, ICCCI-2010-SS01-03**

*Time Series Forecasting of Web Performance Data Monitored by MWING Multiagent Distributed System*

Leszek Borzemski and Maciej Drwal

Wrocław University of Technology, Poland

#### **A1-03, ICCCI-2010-SS01-04**

*Comparison and Analysis of the Eye Pointing Methods and Applications*

Piotr Chynał and Janusz Sobecki

Wrocław University of Technology, Poland

#### **A1-04, ICCCI-2010-208**

*Abstraction Relations Between Internal and Behavioural Agent Models for Collective Decision Making*

Alexei Sharpanskykh and Jan Treur

VU University Amsterdam, Neatherlands

#### **A1-05, ICCCI-2010-442**

*Quick Response System Using Collaborative Filtering on Fashion E-Business*

Kyung-Yong Chung, Chang-Woo Song, Kee-Wook Rim, and Jung-Hyun Lee

Sangji University, Korea

#### **A1-06, ICCCI-2010-485**

*Mining on Terms Extraction from Web News*

Li-Fu Hsu

Hwh Hsia Institute of Technology, Taiwan

## **Session-A2**

### *Novel Approaches to Collective Computations and Systems*

#### **A2-01, ICCCI-2010-SS04-01**

*Probability Collectives Multi-agent Systems: A Study of Robustness in Search*

Chien-Feng Huang and Bao Rong Chang

National University of Kaohsiung, Taiwan

#### **A2-02, ICCCI-2010-SS04-02**

*An Improved Ant Algorithm for Fuzzy Data Mining*

Min-Thai Wu, Tzung-Pei Hong, and Chung-Nan Lee

National Sun Yat-sen University, Taiwan

#### **A2-03, ICCCI-2010-SS15-02**

*Using Freeware to Construct a Game-Based Learning System*

Yuh-Ming Cheng and Li-Hsiang Lu

Shu-Te University, Taiwan

#### **A2-04, ICCCI-2010-204**

*A Web-based E-teaching System Under Low Bit-rate Constraint*

Wei-Chih Hsu, Cheng-Hsiu Li, and Tzu-Hung Chuang

National Kaohsiung First University of Science and Technology, Taiwan

#### **A2-05, ICCCI-2010-276**

*Instructional Design for Remedial English e-Learning*

Chia-ling Hsu, Ai-ling Wang, and Yuh-chang Lin

Tamkang University, Taiwan

#### **A2-06, ICCCI-2010-621**

*Information-driven Collective Intelligences*

Francesca Arcelli Fontana, Ferrante Formato, and Remo Pareschi

University of Milano Bicocca, Italy

## **Session-A3**

### *Agent System*

#### **A3-01, ICCCI-2010-072**

*Modeling Super Mirroring Functionality in Action Execution, Imagination, Mirroring, and Imitation*

Monique Hendriks and Jan Treur

VU University Amsterdam, Netherlands

#### **A3-02, ICCCI-2010-152**

*A Book-Agent System for Library Marketing*

Toshiro Minami

Kyushu Institute of Information Sciences, Japan

#### **A3-03, ICCCI-2010-157**

*Adaptive Modelling of Social Decision Making by Affective Agents Integrating Simulated Behaviour and Perception Chains*

Alexei Sharpanskykh and Jan Treur

Vrije Universiteit Amsterdam, Netherlands

#### **A3-04, ICCCI-2010-230**

*Modeling Agent-based Collaborative Process*

Moamin Ahmed, Mohd Sharifuddin Ahmad, and Mohd Zaliman M. Yusoff

University Tenaga Nasional, Malaysia

#### **A3-05, ICCCI-2010-240**

*A Three-Dimensional Abstraction Framework to Compare Multi-Agent System Models*

Tibor Bosse, Mark Hoogendoorn, Michel C.A. Klein, and Jan Treur

VU University Amsterdam, Netherlands

#### **A3-06, ICCCI-2010-267**

*Improving Performance of Protein Structure Similarity Searching by Distributing Computations in Hierarchical Multi-Agent System*

Alina Momot, Bozena Malysiak-Mrozek, Stanisław Kozielski, Dariusz Mrozek, Lukasz Hera, Sylwia Gorczyńska-Kosiorz, and Michał Momot

Silesian University of Technology, Poland

## **Session-A4**

### *CCI-based Optimization Models*

#### **A4-01, ICCCI-2010-SS12-01**

*Cellular GEP-induced classifiers*

Joanna Jędrzejowicz and Piotr Jędrzejowicz

Gdańsk University, Poland

#### **A4-02, ICCCI-2010-SS12-02**

*Cluster Integration for the Cluster-Based Instance Selection*

Ireneusz Czarnowski and Piotr Jędrzejowicz

Gdynia Maritime University, Poland

#### **A4-03, ICCCI-2010-SS12-03**

*Comparative Study of the Differential Evolution and Approximation Algorithms for Computing Optimal Mixed Strategies in Zero-sum Games*

Urszula Boryczka and Przemysław Juszczak

University of Silesia, Poland

#### **A4-04, ICCCI-2010-SS12-04**

*Ant Colony Decision Trees — A new method for constructing decision trees based on Ant Colony Optimization*

Urszula Boryczka and Jan Kozak

University of Silesia, Poland

#### **A4-05, ICCCI-2010-SS12-05**

*A Cross-Entropy Based Population Learning Algorithm for Multi-Mode Resource-Constrained Project Scheduling Problem with Minimum and Maximum Time Lags*

Piotr Jędrzejowicz and Aleksander Skakovski

Gdynia Maritime University, Poland

#### **A4-06, ICCCI-2010-SS12-06**

*Evaluation of Agents Performance within the A-Team Solving RCPSP/max Problem*

Piotr Jędrzejowicz and Ewa Ratajczak-Ropel

Gdynia Maritime University, Poland

#### **A4-07, ICCCI-2010-SS12-07**

*Synchronous vs. Asynchronous Cooperative Approach to Solving the Vehicle Routing Problem*

Dariusz Barbucha

Gdynia Maritime University, Poland

## **Session-A5**

### *Novel Approaches to Intelligent Applications*

#### **A5-01, ICCCI-2010-SS02-01**

*Private Small-Cloud Computing in Connection with WINCE Thin Client*

Bao Rong Chang, Hsiu Fen Tsai, Chien-Feng Huang, and His-Chung Huang

National University of Kaohsiung, Taiwan

#### **A5-02, ICCCI-2010-SS02-02**

*Honey Bee Mating Optimization Algorithm for Approximation of Digital Curves with Line Segments and Circular Arcs*

Shu-Chien Huang

National Pingtung University of Education, Taiwan

#### **A5-03, ICCCI-2010-096**

*Efficient GHA-Based Hardware Architecture For Texture Classification*

Shiow-Jyu Lin, Yi-Tsan Hung, and Wen-Jyi Hwang

National Taiwan Normal University, Taiwan

#### **A5-04, ICCCI-2010-482**

*Diagnostic Tests Based on Knowledge States*

Sylvia Encheva and Sharil Tumin

Haugesund University College, Norway

#### **A5-05, ICCCI-2010-513**

*Audio Watermarking with HOS-Based Cepstrum Feature*

Bo-Lin Kuo, Chih-Cheng Lo, Chi-Hua Liu, Bin-Yih Liao, and Jeng-Shyang Pan

Kaohsiung University of Applied Science, Taiwan

#### **A5-06, ICCCI-2010-523**

*An Ontology-Supported Ubiquitous Interface Agent for Cloud Computing - Example on Zigbee Technique*

Sheng-Yuan Yang, Dong-Liang Lee, and Chun-Liang Hsu

St. John's University, Taiwan

## **Session-A6**

### *Advanced Knowledge Management*

#### **A6-01, ICCCI-2010-088**

*Rough Sets Based Association Rules Application for Knowledge-Based System Design*

Shu-Hsien Liao and Yin-Ju Chen

Tamkang University, Taiwan

#### **A6-02, ICCCI-2010-211**

*Concept Document Repository to Support Research of the Coal Industry Development Forecasting*

Liudmila Takayshvili

SB RAS, Russia

#### **A6-03, ICCCI-2010-226**

*Forecasting Coal and Rock Dynamic Disaster Based on Adaptive Neuro-fuzzy Inference System*

Jianying Zhang, Jian Cheng, and Leida Li

China University of Mining & Technology, China

#### **A6-04, ICCCI-2010-243**

*Context-aware Workflow Management based on Formal Knowledge Representation Models*

Fu-Shiung Hsieh

Chaoyang University of Technology, Taiwan

#### **A6-05, ICCCI-2010-287**

*A Consensus-based Method for Fuzzy Ontology Integration*

Ngoc Thanh Nguyen and Hai Bang Truong

Wroclaw University of Technology, Poland

#### **A6-06, ICCCI-2010-293**

*Contextual Information Search based on Ontological User Profile*

Mohammed Nazim Uddin, Trong Hai Duong, and Geun Sik Jo

Inha University, Korea

## **Session-A7**

### *Intelligent Computing for Networks*

#### **A7-01, ICCCI-2010-422**

*A Study on the Topology Control Method for Bluetooth Scatternet Formation*

Chih-Min Yu

Chung-Hua University, Taiwan

#### **A7-02, ICCCI-2010-447**

*A Study on the Global Configured Method of Blueweb Routing Protocol*

Chih-Min Yu

Chung-Hua University, Taiwan

#### **A7-03, ICCCI-2010-466**

*Secure Collaborative Cloud Design for Global USN Services*

Tien-Dung Nguyen, Md. Motaharul Islam, Aymen Al-Saffar, Jun-Young Park, and Eui-Nam Huh

Kyung Hee University, Korea

#### **A7-04, ICCCI-2010-471**

*Energy Efficient Framework for Mobility Supported Smart IP-WSN*

Md. Motaharul Islam, Nguyen Tien Dung, Aymen Abdullah Alsaffar, Sang-Ho Na, and Eui-Nam Huh

Kyung Hee University, Korea

#### **A7-05, ICCCI-2010-488**

*An Efficient Migration Framework for Mobile IPTV*

Aymen Abdullah Alsaffar, Tien-Dung Nguyen, Md. Motaharul Islam, Young-Rok Shin, and Eui-Nam Huh

Kyung Hee University, Korea

#### **A7-06, ICCCI-2010-539**

*Auto-Configuration Support for IPv4/IPv6 Translation in Smart Sensor Networks*

Huan-wei Lin and Quincy Wu

National Chi Nan University, Taiwan

## **Session-A8**

### *Quantitative Management of Technology*

#### **A8-01, ICCCI-2010-SS09-01**

*Fuzzy multi-objective programming application for time-cost trade-off of CPM in project management*

Gino K. Yang

Hungkuang University, Taiwan

#### **A8-02, ICCCI-2010-SS09-02**

*A Study on Two-stage Budget Planning by Fuzzy Quantifying Analysis*

Gino K. Yang and Wayne Chouhuang

Hungkuang University, Taiwan

#### **A8-03, ICCCI-2010-SS09-03**

*Hybrid Support Vector Regression and GA/TS for Radio-Wave Path-Loss Prediction*

Kuo-Chen Hung, Kuo-Ping Lin, Gino K. Yang, and Y.-C. Tsai

National Defense University, Taiwan

#### **A8-04, ICCCI-2010-SS09-06**

*A GA-based Support Vector Machine Diagnosis Model for Business Crisis*

Ming-Fen Yang and Huey-Der Hsiao

Far East University, Taiwan

#### **A8-05, ICCCI-2010-SS09-07**

*Development of an Engineering Knowledge Extraction Framework*

Chengter Ho

National Kaohsiung University of Applied Sciences, Taiwan

#### **A8-06, ICCCI-2010-SS09-09**

*Performance Evaluation of Telecommunication Industry between China and Taiwan*

Yao-Lang Chang, Tsung-Ting Shih, and Chih-Hong Wang

National Kaohsiung University of Applied Sciences, Taiwan

#### **A8-07, ICCCI-2010-SS09-12**

*Enhancing Repair Service Quality of Mobile Phones by the TRIZ Method*

Yao-Lang Chang, Shu-Chin Lai, and Chia-Nan Wang

National Kaohsiung University of Applied Sciences, Taiwan

## **Session-B1**

### *Intelligent Computing for Data Security*

#### **B1-01, ICCCI-2010-SS06-01**

*An Ownership Verification Scheme by Using Image Pinned Field and Genetic Algorithm*

Mn-Ta Lee, Hsuan-Ting Chang, and Mu-Liang Wang

Kao Yuan University, Taiwan

#### **B1-02, ICCCI-2010-SS06-02**

*Multiple-image Multiplexing Encryption based on Modified Gerchberg-Saxton Algorithm and Phase Modulation in Fractional Fourier Transform Domain*

Hsuan-Ting Chang and Hone-Ene Hwang

National Yunlin University of Science and Technology, Taiwan

#### **B1-03, ICCCI-2010-SS06-03**

*Optical Image Encryption based on Joint Fresnel Transform Correlator*

Hsuan-Ting Chang and Zong-Yu Wu

National Yunlin University of Science and Technology, Taiwan

#### **B1-04, ICCCI-2010-013**

*DenVOICE: A New Density-Partitioning Clustering Technique Based on Congregation of Dense Voronoi Cells for Non-spherical Patterns*

Jui-Fang Chang

National Kaohsiung University of Applied Sciences, Taiwan

#### **B1-05, ICCCI-2010-194**

*Communication and trust in the bounded confidence model*

M. J. Krawczyk, K. Malarz, R. Korff, and K. Kulakowski

AGH University of Science and Technology, Poland

#### **B1-06, ICCCI-2010-518**

*Inter-cloud Data Integration System Considering Privacy and Cost*

Yuan Tian, Biao Song, Jimuping Park, and Eui-Nam Huh

Kyung Hee University, Korea

## **Session-B2**

### *Innovations in Pervasive Computing*

#### **B2-01, ICCCI-2010-SS16-01**

*Hierarchical IP Distribution Mechanism for VANET*

Chiu-Ching Tuan, Jia-Ming Zhang, and Shu-Jun Chao

National Taipei University of Technology, Taiwan

#### **B2-02, ICCCI-2010-SS16-02**

*VisMusic: Music Visualization with Interactive Browsing*

Jia-Lien Hsu and Wei-Hsien Chien

Fu Jen Catholic University, Sinjhuang City, Taiwan

#### **B2-03, ICCCI-2010-SS16-03**

*The Study of Plagiarism Detection for Object-oriented Programming Language*

Jong-Yih Kuo and Wei-Ting Wang

National Taipei University of Technology, Taiwan

#### **B2-04, ICCCI-2010-SS16-04**

*A Distributed Sleep Scheduling Algorithm with Range Adjustment for Wireless Sensor Networks*

Kei-Chen Tung, Jonathan Chun-Hsien Lu, and Hsin-Hung Lin

Fu Jen Catholic University, Taiwan

#### **B2-05, ICCCI-2010-SS16-05**

*An Innovative Routing Algorithm with Reinforcement Learning and Pattern Tree Adjustment for Wireless Sensor Networks*

Chia-Yu Fan, Chien-Chang Hsu, and Wei-Yi Wang

Fu-Jen Catholic University, Taiwan

#### **B2-06, ICCCI-2010-413**

*Trend Detection on Thin-film Solar Cell Technology using Cluster Analysis and Modified Data Crystallization*

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

Aletheia University, Taiwan

## **Session-B3**

### *Intelligent Systems*

#### **B3-01, ICCCI-2010-SS13-03**

*The Power Load Forecasting by Kernel PCA*

Fang-Tsung Liu, Chiung-Hsing Chen, Shang-Jen Chuang, and Ting-Chia Ou

National Kaohsiung Marine University, Taiwan

#### **B3-02, ICCCI-2010-SS13-04**

*An Extensional Signed Fuzzy Measure of Signed Rho-Fuzzy Measure*

Hsiang-Chuan Liu

Asia University, Taiwan

#### **B3-03, ICCCI-2010-SS13-05**

*A Study of USB 3 in Perspective Aspect*

Wei-Ming Yeh

National Taiwan University of Arts, Taiwan

#### **B3-04, ICCCI-2010-SS13-06**

*A Study of CAPTCHA and Its Application to User Authentication*

Albert B. Jeng, Chien-Chen Tseng, Der-Feng Tseng , and Jiunn-Chin Wang

Jinwen University of Science and Technology, Taiwan

#### **B3-05, ICCCI-2010-SS13-07**

*TAIEX Forecasting Based on Fuzzy Time Series and the Automatically Generated Weights of Defuzzified*

*Forecasted Fuzzy Variations of Multiple-Factors*

Shyi-Ming Chen and Huai-Ping Chu

National Taiwan University of Science and Technology, Taiwan

#### **B3-06, ICCCI-2010-307**

*Terminological and assertional queries in KQL knowledge access language*

Krzysztof Goczyla, Piotr Piotrowski, Aleksander Waloszek, Wojciech Waloszek, and Teresa Zawadzka

Gdańsk University of Technology, Poland

## **Session-B4**

### *Intelligent Signal Processing for Human-Machine Interaction*

#### **B4-01, ICCCI-2010-234**

*Emotion aware mobile application*

Radoslaw Nielek and Adam Wierzbicki

Polish Japanese Institute of Information Technology, Poland

#### **B4-02, ICCCI-2010-251**

*Boosting-based Ensemble Learning with Penalty Setting Profiles for Automatic Thai Unknown Word Recognition*

Jakkrit TeCho, Cholwich Nattee, and Thanaruk Theeramunkong

Sirindhorn International Institute of Technology, Thailand

#### **B4-03, ICCCI-2010-298**

*A Query Answering Greedy Algorithm for Selecting Materialized Views*

T.V. Vijay Kumar and Mohammad Haider

Jawaharlal Nehru University, India

#### **B4-04, ICCCI-2010-315**

*Conditional Statements grounded in Past Present and Future*

Grzegorz Skorupa and Radosław Katarzyniak

Wroclaw University of Technology, Wybrzeże Wyspiańskiego

#### **B4-05, ICCCI-2010-566**

*Semantic Optimization of Query Transformation in Semantic Peer-to-Peer Networks*

Jason J. Jung

Yeungnam University, Korea

#### **B4-06, ICCCI-2010-597**

*Capturing Users' Buying Activity at Akihabara Electric Town from Twitter*

The-Minh Nguyen, Takahiro Kawamura, Yasuyuki Tahara, and Akihiko Ohsuga

The University of Electro-Communications, Japan

## **Session-B5**

### *Social Networks*

#### **B5-01, ICCCI-2010-124**

*A Semantic Web Approach to Heterogeneous Metadata Integration*

Shu-Hsien Liao, Hong-Chu Huang, and Ya-Ning Chen

Tamkang University, Taiwan

#### **B5-02, ICCCI-2010-246**

*Influence Clubs in Social Networks*

Chin-Ping Yang, Chen-Yi Liu, and Bang Ye Wu

National Chung Cheng University, Taiwan

#### **B5-03, ICCCI-2010-393**

*A Method of Label-dependent Feature Extraction in Social Networks*

Tomasz Kajdanowicz, Przemysław Kazienko, and Piotr Duskocz

Wrocław University of Technology, Poland

#### **B5-04, ICCCI-2010-560**

*Identifying Representative Reviewers in Internet Social Media*

Sang-Min Choi, Jeong-Won Cha, and Yo-Sub Han

Yonsei University, Korea

#### **B5-05, ICCCI-2010-612**

*Fitcolab Experimental Online Social Networking System*

Haris Memic

Dzermal Bijedic University, Bosnia and Herzegovina

#### **B5-06, ICCCI-2010-617**

*General Network Properties of Friendship Online Social Network*

Haris Memic

Dzermal Bijedic University, Bosnia and Herzegovina

## **Session-B6**

### *Soft Computing to Industrial Management & Applications*

#### **B6-01, ICCCI-2010-SS05-01**

*Empirical Bayes Estimation of Customers' Guarantee Time Length of Loyalty*

Hui-Hsin Huang

Aletheia University, Taiwan

#### **B6-02, ICCCI-2010-SS05-02**

*An integrated EPQ model for manufacturer's replenishment policies with two levels of trade credit policy under supplier credits linked to ordering quantity*

Liang-Ho Chen, Jyh-Woei Chou, and Tien-Tsai Huang

Tungnan University, Taiwan

#### **B6-03, ICCCI-2010-SS05-03**

*Modeling A Dynamic Design System Using the Mahalanobis Taguchi System—Two-Step Optimal algorithm*

Tsung-Shin Hsu and Ching-Lien Huang

National Tsing Hua University, Taiwan

#### **B6-04, ICCCI-2010-SS05-04**

*A Fuzzy Model Applied on Assessing Operating Performance of Industrial PC*

Tien-Tsai Huang, Su-Yi Huang, and Yi-Huei Chen

Lunghwa University of Science and Technology, Taiwan

#### **B6-05, ICCCI-2010-SS05-05**

*Inventory Models for Deteriorating Items with Variable Selling Price under Stock-dependent Demand*

Yen-Wen Wang, Chih-Te Yang, August Tsai, and Chiou-Ping Hsu

Ching Yun University, Taiwan

## **Session-B7**

### *Biological Computing*

#### **B7-01, ICCCI-2010-351**

*Immune Memory Mechanism based on Cyclic Idiotypic Network*

Chung-Ming Ou and C. R. Ou

Kainan University, Taiwan

#### **B7-02, ICCCI-2010-363**

*Sensor placement in water networks using a population-based ant colony optimization algorithm*

Konrad Diwold, Thomas Ruhnke, and Martin Middendorf

Universität Leipzig, Germany

#### **B7-03, ICCCI-2010-389**

*Automatic Ontology Evolution in Open and Dynamic Computing Environments*

Edgar Jembere, Sibusiso S. Xulu, and Matthew O. Adigun

University of Zululand, RSA

#### **B7-04, ICCCI-2010-416**

*The Codebook Design of Image Vector Quantization based on the Firefly Algorithm*

Ming-Huwi Horng and Ting-Wei Jiang

National Pingtung Institute of Commerce, Taiwan

#### **B7-05, ICCCI-2010-499**

*Confronting Two-Pair Primer Design Using Particle Swarm Optimization*

Cheng-Hong Yang, Yu-Huei Cheng, and Li-Yeh Chuang

National Kaohsiung University of Applied Sciences, Taiwan

#### **B7-06, ICCCI-2010-526**

*Strategic Health Information Management and Forecast: The BirdWatching Approach*

Arash Shaban-Nejad and Volker Haarslev

Concordia University, Canada

## **Session-B8**

### *Intelligent Systems and Applications*

#### **B8-01, ICCCI-2010-SS15-01**

*An Extensible Particles Swarm Optimization for Energy-Effective Cluster Management of Underwater Sensor Networks*

Mong-Fong Horng, Yi-Ting Chen, Shu-Chuan Chiu, Jeng-Shyang Pan, and Bin-Yih Liao

National Kaohsiung University of Applied Sciences, Taiwan

#### **B8-02, ICCCI-2010-164**

*Adaptive Learning approach of Fuzzy Logic Controller with Evolution for Pursuit –Evasion Games*

Hung-Chien Chung and Jing-Sin Liu

Academia Sinica, Taiwan

#### **B8-03, ICCCI-2010-310**

*Comparison of Multispectral Image Processing Techniques to Brain MR Image Classification Between Fuzzy C-Mean Method and Geodesic Active Contours of Caselles Level Set Method.*

Yen-Sheng Chen

Lan Yang Institute of Technology, Taiwan

#### **B8-04, ICCCI-2010-380**

*Semantic Search Results Clustering*

Krzysztof Strzalka and Aleksander Zgrzywa

Wroclaw University of Technology, Poland

#### **B8-05, ICCCI-2010-529**

*ARToolkit-based Augmented Reality System with Integrated 1-D Barcode: Combining Colorful Markers with Remote Servers of 3D Data for Product Promotion Purposes*

Jong-Chih Chien, Hoang-Yang Lu, Yi-Sheng Wu, and Li-Chang Liu

Kainan University, Taiwan

#### **B8-06, ICCCI-2010**

*Automated Target Discrimination Using Feature Extraction*

Minh D J Tran, Canicious Abeynayake and Lakhmi Jain

University of South Australia, Australia

## **Session-C1**

### *Intelligent Computing for Image Analysis*

#### **C1-01, ICCCI-2010-SS03-01**

*Feature Analysis and Classification of Lymph Nodes*

Chuan-Yu Chang, Shu-Han Chang, and Shao-Jer Chen

National Yunlin University of Science, Taiwan

#### **C1-02, ICCCI-2010-SS03-02**

*Automatic and Accurate Image Matting*

Wu-Chih Hu, Deng-Yuan Huang, Ching-Yu Yang, Jia-Jie Jhu, and Cheng-Pin Lin

National Penghu University of Science, Taiwan

#### **C1-03, ICCCI-2010-SS03-03**

*Improved DCT-based Watermarking through Particle Swarm Optimization*

Chih-Chin Lai, Wei-Shun Wang, and Ci-Fong Jhan

National University of Kaohsiung, Taiwan

#### **C1-04, ICCCI-2010-SS15-03**

*The 3D display and analysis of the pattern of photolithography*

Lih-Shyang Chen, Young-Jinn Lay, Lian-Yong Lin, Jing-Jou Tang, Wen-Lin Cheng, and Yu-Jen Lin

National Cheng Kung University, Taiwan

#### **C1-05, ICCCI-2010-188**

*A New Adaptive B-spline VFC Snake for Object Contour Extraction*

Hoang-Nam Nguyen and An-Chen Lee

National Chiao Tung University, Taiwan

#### **C1-06, ICCCI-2010-452**

*Differential approximation of the 2-D Laplace operator for edge detection in digital images*

Jakub Pęksiński and Grzegorz Mikołajczak

West Pomeranian University of Technology, Poland

## **Session-C2**

### *Intelligent Digital Watermarking and Pattern Recognition*

#### **C2-01, ICCCI-2010-SS14-03**

*A Vehicle License Plate Recognition System Based on Spatial/Frequency Domain Filtering and Neural Networks*

Mu-Liang Wang, Yi-Hua Liu, Bin-Yih Liao, Yi-Sin Lin, and Mong-Fong Horng  
Shu-Te University, Taiwan

#### **C2-02, ICCCI-2010-SS14-04**

*Reversible Watermarking Based on Invariant Relation of Three Pixels*

Shaowei Weng, Shu-Chuan Chu, Jeng-Shyang Pan, and Lakhmi C. Jain  
Guangdong University of Technology, China

#### **C2-03, ICCCI-2010-SS14-05**

*Authentication and Protection for Medical Image*

Chih-Hung Lin, Ching-Yu Yang, and Chia-Wei Chang  
Southern Taiwan University, Taiwan

#### **C2-04, ICCCI-2010-SS14-07**

*Recognition of Tire Tread Patterns Based on Gabor Wavelets and Support Vector Machine*

Deng-Yuan Huang, Wu-Chih Hu, Ying-Wei Wang, Ching-I Chen, and Chih-Hsiang Cheng  
Dayeh University, Taiwan

#### **C2-05, ICCCI-2010-SS14-08**

*Detection of Image Region-Duplication with Rotation and Scaling Tolerance*

Qiumin Wu, Shuozhong Wang, and Xinpeng Zhang  
Shanghai University, China

#### **C2-06, ICCCI-2010-039**

*Watermark Synchronization Based on Locally Most Stable Feature Points*

Jiansheng Qian, Leida Li, and Zhaolin Lu  
China University of Mining, China

#### **C2-07, ICCCI-2010-118**

*Comparative studies of parallel and vertical stereo vision-based 3D pneumatic arms*

Ray-Hwa Wong, Y. Wang, and Chao-Yi Liu  
National Taiwan University of Science and Technology, Taiwan  
Hwa Hsia Institute of Technology, Taiwan

## **Session-C3**

### *Intelligent Technologies for Medical Related Applications*

#### **C3-01, ICCCI-2010-SS10-01**

*Comparison of Edge Segmentation Methods to Tongue Diagnosis in Traditional Chinese Medicine*

Chieh-Hsuan Wang, Ching-Chuan Wei, and Che-Hao Li

Chaoyang University of Technology, Taiwan

#### **C3-02, ICCCI-2010-SS10-03**

*The Grading of Prostatic Cancer in Biopsy Image based on Two Stages Approach*

Shao-Kuo Tai, Cheng-Yi Li, Yee-Jee Jan, and Shu-Chuan Lin

Chaoyang University of Technology, Taiwan

#### **C3-03, ICCCI-2010-SS10-04**

*Automatic Drug Image Identification System Based on Multiple Image Features*

Rung-Ching Chen, Cho-Tsan Pao, Ying-Hao Chen, and Jeng-Chih Jian

Chaoyang University of Technology, Taiwan

#### **C3-04, ICCCI-2010-SS10-05**

*On the Development of a Brain Simulator*

Wen-Hsien Tseng, Song-Yun Lu, and Hsing Mei

Web Computing Lab., Taiwan

#### **C3-05, ICCCI-2010-SS10-06**

*Obstructive Sleep Apnea Diagnosis from Electroencephalography Frequency Variation by Radial Basis Function Neural Network*

Chien-Chang Hsu and Jie Yu

Fu-Jen Catholic University, Taiwan

## **Session-C4**

### *Innovations in Computation and Application*

#### **C4-01, ICCCI-2010-SS08-01**

*Fuzzy Decision Making for IJV Performance Based on Statistical Confidence-Interval Estimates*

Huey-Ming Lee, Teng-San Shih, Jin-Shieh Su, and Lily Lin

Chinese Culture University, Taiwan

#### **C4-02, ICCCI-2010-SS08-02**

*Design a Learning System Base on Voice Mail – A Case Study of English Oral Training*

Huey-Ming Lee and Chien-Hsien Huang

Chinese Culture University, Taiwan

#### **C4-03, ICCCI-2010-SS08-03**

*Processing Certificate of Authorization with Watermark Based on Grid Environmenet*

Heng-Sheng Chen, Tsang-Yean Lee, and Huey-Ming Lee

Chinese Culture University, Taiwan

#### **C4-04, ICCCI-2010-SS08-04**

*A Gene Selection Method for Microarray Data based on Sampling*

Yungho Leu, Chien-Pang Lee, and Hui-Yi Tsai

National Taiwan University of Science and Technology, Taiwan

#### **C4-05, ICCCI-2010-438**

*Quality of Semantic Compression in Classification*

Dariusz Ceglarek, Konstanty Haniewicz, and Wojciech Rutkowski

Poznan School of Banking, Poland

#### **C4-06, ICCCI-2010-553**

*Algorithm for Computational Measure of Color Constancy*

S. J. Jerome Teng

Kainan University, Taiwan

## **Session-C5**

### *Innovative Information System and Application*

#### **C5-01, ICCCI-2010-SS17-01**

*Mining Generalized Association Rules with Quantitative Data under Multiple Support Constraints*

Yeong-Chyi Lee, Tzung-Pei Hong, and Chun-Hao Chen

Cheng Shiu University, Taiwan

#### **C5-02, ICCCI-2010-SS17-02**

*Design and Implementation of e-Journal Review System Using Text-Mining Technology*

Chun-Wei Tseng, Feng-Jung Liu, Wan-Chin Lu, and Shih-Hao Huang

Cheng Shiu University, Taiwan

#### **C5-03, ICCCI-2010-SS17-04**

*Study on Architecture-Oriented Information Security Risk Assessment Model*

Wei-Ming Ma

Cheng-Shiu University, Taiwan

#### **C5-04, ICCCI-2010-SS17-05**

*Constructing Problem-based Learning Activities Using Self-Assessment System*

Feng-Jung Liu, Chun-Wei Tseng, and Wen-Chang Tseng

Cheng Shiu University, Taiwan

#### **C5-05, ICCCI-2010-130**

*Conducted EMI Analysis of a Three-phase PWM Rectifier*

Kexin Wei, Bin Liang, and Youjun Yue

Tianjin University, Tianjin

#### **C5-06, ICCCI-2010-563**

*Synchronization of Duffing-Holmes Oscillators using Stable Neural Network Controller*

Suwat Kuntanapreeda

King Mongkut's University of Technology North Bangkok, Thailand

## Poster Session

### **P-01, ICCCI-SS01-01**

*Neuro-Fuzzy models in global HTTP request distribution*

Krzysztof Zatwarnicki

The Opole University of Technology, Poland

### **P-02, ICCCI-SS02-04**

*Adaptive Fuzzy Neural Network Control for Automatic Landing System*

Jih-Gau Juang and Li-Hsiang Chien

National Taiwan Ocean University, Taiwan

### **P-03, ICCCI-2010-SS08-05**

*The Similarity of Video based on the Association Graph Construction of Video Objects*

Ping Yu

Chinese Culture University, Taiwan

### **P-04, ICCCI-2010-SS08-06**

*Using SOA Concept to Construct an e-Learning System for College Information Management Courses*

Chung C. Chang and Kou-Chan Hsiao

Chinese Culture University, Taiwan

### **P-05, ICCCI-2010-SS08-07**

*Cryptanalysis on Sun-Yeh's Password-Based Authentication and Key Distribution Protocols with Perfect Forward Secrecy*

Wen-Gong Shieh and Wen-Bing Horng

Chinese Culture University, Taiwan

### **P-06, ICCCI-2010-SS08-08**

*Using Genetic Algorithms for Personalized Recommendation*

Chein-Shung Hwang, Yi-Ching Su, and Kuo-Cheng Tseng

Chinese Culture University, Taiwan

### **P-07, ICCCI-2010-SS09-04**

*Inventory Model with Fractional Brownian Motion Demand*

Jennifer Shu-Jen Lin

Toko University, Taiwan

**P-08, ICCCI-2010-SS09-05**

*Note on Inventory Model with a Stochastic Demand*

Yu-Wen Wou

Chihlee Institute of Technology, Taiwan

**P-09, ICCCI-2010-SS09-08**

*Exploring EFL Taiwanese University Students' Perceptions of a Collaborative CALL Environment*

Yen-Hui Wang and Chia-Nan Wang

Kainan University, Taiwan

**P-10, ICCCI-2010-SS09-10**

*Discuss and Analyze by AHP Techniques the KSF of Managing the NMMBA under the BOT Model*

Wen Ching Lin, Ying Fung Huang, and Chia Nan Wang

National Kaohsiung University of Applied Sciences, Taiwan

**P-11, ICCCI-2010-SS09-11**

*A DEA Application Model of Production Process for the Chip Resistor Industry*

Hsi-Che Teng, Shin-Jung Wang, and Ming-Haur Shih

National Kaohsiung University of Applied Sciences, Taiwan

**P-12, ICCCI-2010-SS13-01**

*Three Kinds of Negations in Fuzzy Knowledge and their Applications to Decision Making in Financial Investment*

Zhenghua Pan, Cen Wang, and Lijuan Zhang

Jiangnan University, China

**P-13, ICCCI-2010-SS13-02**

*Using Fuzzy Neural Network to Explore the Effect of Internet on quality of life*

Jui-Chen Huang

Hungkuang University, Taiwan

**P-14, ICCCI-2010-SS14-01**

*GOP-Flexible Distributed Multiview Video Coding with Adaptive Side Information*

Lili Meng, Yao Zhao, Jeng-Shyang Pan, Huihui Bai, and Anhong Wang

Beijing Jiaotong University, China

**P-15, ICCCI-2010-SS14-02**

*A novel embedded coding algorithm based on the reconstructed DCT coefficients*

Lin-Lin Tang, Jeng-Shyang Pan, and Zhe-Ming Lu

Harbin Institute of Technology Shenzhen Graduate School, China

**P-16, ICCCI-2010-SS14-06**

*Alphanumeric Shape Recognition of Fingertip Writing Trajectory*

Ming-Fang Wu, Jen-Hsing Li, Ping-Tsung Wang, and Ruei-Tang Lin

Kun Shan University, Taiwan

**P-17, ICCCI-2010-SS15-04**

*Geometrically Invariant Image Watermarking using Scale-Invariant Feature Transform and K-Means Clustering*

Huawei Tian, Yao Zhao, Rongrong Ni, and Jeng-Shyang Pan

Beijing Jiaotong University, China

**P-18, ICCCI-2010-0100**

*Pretreatment for Speech Machine Translation*

Xiaofei Zhang, Chong Feng, and Heyan Huang

Chinese Academy of Sciences, China

**P-19, ICCCI-2010-0136**

*Swarm Intelligence for Cardinality-Constrained Portfolio Problems*

Guang-Feng Deng and Woo-Tsong Lin

National Chengchi University, Taiwan

**P-20, ICCCI-2010-0237**

*An Effective Image Enhancement Method for Electronic Portal Images*

Mao-Hsiung Hung, Shu-Chuan Chu, John F. Roddick, Jeng-Shyang Pan, and Chin-Shiuh Shieh

National Kaohsiung University of Applied Sciences, Taiwan

**P-21, ICCCI-2010-0255**

*FLC-Regulated Speaker Adaptation Mechanisms for Speech Recognition*

Ing-Jr Ding

National Formosa University, Taiwan

**P-22, ICCCI-2010-0259**

*Codes base on unambiguous products*

Ho Ngoc Vinh, Vu Thanh Nam, and Phan Trung Huy

Vinh Technical Teachers Training University, Vietnam

**P-23, ICCCI-2010-0273**

*AONT Encryption based Application Data Management in Mobile RFID Environment*

Namje Park and Youjin Song

Jeju National University, Korea

**P-24, ICCCI-2010-0322**

*License Plate Tilt Correction Based on the Straight Line Fitting Method and Projection*

Kaushik Deb, Andrey Vavilin, Jung-Won Kim, and Kang-Hyun Jo

University of Ulsan, Korea

**P-25, ICCCI-2010-0339**

*Realizes Three-Tier Structure Mail System Based on the Web*

Jun-Hua He and Jing-Yuan Lv

HuangShi Institute of Technology, China

**P-26, ICCCI-2010-0432**

*Modeling PVT Properties of Crude Oil Systems Using Type-2 Fuzzy Logic Systems*

Sunday Olusanya Olatunji, Ali Selamat, and Abdul Azeez Abdul Raheem

University of Technology Malaysia, Malaysia

**P-27, ICCCI-2010-0547**

*Monitoring of the Multichannel Audio Signal*

Eugeniusz Kornatowski

West Pomeranian University of Technology, Poland

**P-28, ICCCI-2010-0602**

*Harmful Adult Multimedia Contents Filtering Method in Mobile RFID Service Environment*

Namje Park and Youngsoo Kim

Jeju National University, Korea

**P-29, ICCCI-2010-0605**

*Stability by Feedback of the Second Order Singular Distributed Parameter Systems Containing Infinite Many Poles*

Feng Liu, Guodong Shi, and Jianchun Wu

Jiangsu Teachers University of Technology, China