The Eighth International Conference on Intelligent Systems Design and Applications

November 26-28, Kaohsiung City, Taiwan
http://bit.kuas.edu.tw/~isda08/

Conference Program

November 25, 2008
Registration ...................................................... 13:30-17:30
(Kaohsiung Ambassador Hotel)

November 26, 2008
Registration ...................................................... 08:00-17:30
Opening .......................................................... 08:30-09:00
Plenary Speech I .................................................. 09:00-10:00
Coffee Break .................................................... 10:00-10:20
Sessions A01-A05 .............................................. 10:20-12:05
Lunch ............................................................. 12:05-13:30
Sessions A06-A10 .............................................. 13:30-15:15
Coffee Break .................................................... 15:15-15:40
Sessions A11-A15 .............................................. 15:40-17:25
Welcome Dinner ............................................... 18:00-20:00

November 27, 2008
Registration ...................................................... 08:00-17:30
Plenary Speech II .............................................. 09:00-10:00
Coffee Break .................................................... 10:00-10:20
Sessions B01-B04 .............................................. 10:20-12:05
Poster Session B05 ........................................... 10:20-12:05
Lunch…………………………………………………………… 12:05-13:30
Sessions B06-B09 ......................................................... 13:30-15:15
Post Session B10 .......................................................... 13:30-15:15
Coffee Break............................................................... 15:15-15:40
Sessions B11-B14 .......................................................... 15:40-17:25
Poster Session B15 ....................................................... 15:40-17:25
Conference Banquet ..................................................... 17:40-20:00
Plenary Speech III ....................................................... 17:40-18:00

November 28, 2008
Registration ......................................................... 08:00-17:30
Plenary Speech IV ..................................................... 09:00-10:00
Coffee Break............................................................ 10:00-10:20
Sessions C01-C04 ....................................................... 10:20-12:05
Poster Session C05 ..................................................... 10:20-12:05
Lunch................................................................. 12:05-13:30
Sessions C06-C09 ....................................................... 13:30-15:15
Post Session C10 ....................................................... 13:30-15:15
Coffee Break............................................................ 15:15-15:40
Sessions C11-C14 ....................................................... 15:40-17:25
Poster Session C015 ................................................... 15:40-17:25
Conference Farewell .................................................. 18:00-20:00
Session List

November 26, 2008, 10:20-12:05
A01 : Novel Approaches to Pervasive Applications
A02 : Intelligent Systems for Image Analysis & Image Analysis and Biometrics
A03 : Intelligent Technology for Ubiquitous Computing
A04 : Bioinformatics
A05 : Intelligent Text Categorization and Clustering

November 26, 2008, 13:30-15:15
A06 : Intelligent Data Analysis and Applications
A07 : Information Management and Processing
A08 : Intelligent Interface Design and Application
A09 : Soft-computing Technologies & Applications on IEM Intelligent Systems
A10 : Evolutionary Multiobjective Optimization — Design and Applications

November 26, 2008, 15:40-17:25
A11 : Intelligent Data Analysis and Applications
A12 : Information Management and Processing
A13 : Emerging Technologies for Intelligent Vehicular Applications
A14 : Soft-computing Technologies & Applications on IEM Intelligent Systems
A15 : Multi-Agent Systems in E-Business: Concepts, Technologies and Applications

November 27, 2008, 10:20-12:05
B01 : Pattern Recognition and Signal Process
B02 : Software Agent
B03 : Fuzzy Applications
B04 : Web-related Application and Information Retrieval
B05 : Poster Session (I)
November 27, 2008, 13:30-15:15

B06 : Computer Network
B07 : Clustering, Classification and Database
B08 : Computational Intelligence and Its Applications
B09 : Watermarking and Signal Processing
B10 : Poster Session (II)

November 27, 2008, 15:40-17:25

B11 : Image Processing
B12 : Control and Signal Processing
B13 : Signal Processing (I)
B14 : Signal Processing (II)
B15 : Poster Session (III)

November 28, 2008, 10:20-12:05

C01 : Digital Crime, Forensics and E-Commerce Security
C02 : Intelligent Adaptive System (I)
C03 : Machine Learning, Evolutionary Computation and Their Applications
C04 : Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography
C05 : Poster Session (IV)

November 28, 2008, 13:30-15:15

C06 : E-Commerce Security
C07 : Intelligent Adaptive System (II)
C08 : Intelligent Video Processing
C09 : Intelligent Watermarking Techniques, Image Authentication And Visual Cryptography
C10 : Poster Session (V)

November 28, 2008, 15:40-17:25

C11 : E-Commerce Security
C12 : Digital Crime and Forensics
C13 : Intelligent Video Processing
C14 : Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography
C15 : Poster Session (VI)
A01

Novel Approaches to Pervasive Applications
Bao-Rong Chang, Taitung University, Taiwan
Horng-Chang Yang, Taitung University, Taiwan
Cheng-Hsiung Hsieh, Chaoyang University of Technology, Taiwan

A01-01, ISDA-2008-IS01-001
Applying Embedded Hybrid ANFIS/Quantum-Tuned BPNN Prediction to Collision Warning System for Motor Vehicle Safety
Bao-Rong Chang, Chung-Ping Young, Hsiu-Fen Tsai, and Jian-Jr Lin
Taitung University, Taiwan

A01-02, ISDA-2008-IS01-003
A Sense Based Similarity Measure for Cross-Lingual Documents
Hsun-Hui Huang, Horng-Chang Yang, and Yau-Hwang Kuo
Cheng Kung University, Taiwan

A01-03, ISDA-2008-IS01-004
An Intelligent Intrusion Detection System Based on UPnP Technology for Smart Living
Mong-Fong Horng, Bo-Chao Chang, and Bei-Hao Su
Kaohsiung University of Applied Sciences, Taiwan

A01-04, ISDA-2008-IS01-005
Image Fusion Based on Grey Polynomial Interpolation
Cheng-Hsiung Hsieh, Pei-Wen Chen, Chia-Wei Lan, and Kuan-Chieh Hsiung
Chaoyang University of Technology, Taiwan

A01-05, ISDA-2008-IS01-006
A Method of Camera Relationship Establishment Based on Temporal and Spatial Information of Video Clips
Hsien-Chou Liao, Cheng-Hsiung Hsieh, Yi-Ming Hsieh, and Chih-En Wu
Chaoyang University of Technology, Taiwan

A01-06, ISDA-2008-IS12-003
Chinese Unknown Word Recognition using improved Conditional Random Fields
Yisu Xu, Xuan Wang, Bu-Zhou Tang, and Xiao-Long Wang
Harbin Institute of Technology Shenzhen Graduate School, China
A01-07, ISDA-2008-1252

*The Innovation of Manufacturing Premise based on Knowledge obtained by Quality Accident Report*

Shujiro Murayamaa, Junko Shibatab, Koji Okuharac, and Hiroaki Ishiic
Hiroshima University of Economics, Japan

A01-08, ISDA-2008-1177

*Traffic Identification of Tor and Web-Mix*

Xuefeng Bai, Yong Zhang, and Xia-Mu Niu
Harbin Institute of Technology Shenzhen Graduate School, China
Intelligent Systems for Image Analysis & Image Analysis and Biometrics
Chuan-Yu Chang, Yunlin University of Science & Technology, Taiwan
Khalid Saeed, Bialystok technical University, Poland

A02-01, ISDA-2008-IS02-001
Applying the Particle Swarm Optimization and Boltzmann Function for Feature Selection and Classification of Lymph Node in Ultrasound Images
Chuan-Yu Chang, Cheng-Ting Lai, and Shao-Jer Chen
Yunlin University of Science & Technology, Taiwan

A02-02, ISDA-2008-IS02-002
Adaptive Template Block-based Block Matching for Object Tracking
Wu-Chih Hu
Penghu University, Taiwan

A02-03, ISDA-2008-IS02-003
Image Thresholding Using Mean-Shift Based Particle Swarm Optimization
Chien-Cheng Lee, Yu-Chun Chiang, Cheng-Yuan Shih, and Wen-Sheng Hu
Yuan Ze University, Taiwan

A02-04, ISDA-2008-IS02-006
Fragile Watermarking for H.264 Video Stream Authentication
Chuen-Ching Wang and Yu-Chang Hsu
Changhua University of Education, Taiwan

A02-05, ISDA-2008-0365
A Fast Recursive Algorithm for Gradient-Based Global Motion Estimation in Sparsely Sampled Field
Yong-Ren Huang
Shu-Te University, Taiwan

A02-06, ISDA-2008-0629
Illumination Invariant Color Model for Image Matching and Object Recognition
Hui-Fuang Ng and Yen-Wei Chu
Asia University, Taiwan

A02-07, ISDA-2008-WS01-0723
Blind Image Deconvolution via Particle Swarm Optimization with Entropy Evaluation
Tsung-Ying Sun, Chan-Cheng Liu, Yu-Peng Jheng, Jyun-Hong Jheng, Shang-Jeng Tsai, and Sheng-Ta Hsieh
Dong Hwa University, Taiwan

A02-08, ISDA-2008-1192
Fuzzy Fusion Method for Combining Small Number of Classifiers in Hyperspectral Image Classification
Chun-Hsiang Chuang, Bor-Chen Kuo, and Hsuan-Po Wang
Taichung University, Taiwan
A03

Intelligent Technology for Ubiquitous Computing
Chia-Mei Chen, Sun Yat-Sen University, Taiwan
Hung-Yao Hsu, University of South Australia, Australia

A03-01, ISDA-2008-IS03-001
Using Resampling for Optimizing Continuous Queries in Wireless Sensor Networks
San-Yih Hwang, Pin-Yu Liu, and Chien-Hsiang Lee
Sun Yat-Sen University, Taiwan

A03-02, ISDA-2008-IS03-002
Discovering Moving Clusters from Spatial-Temporal Databases
San-Yih Hwang, Chien-Ming Lee, and Chien-Hsiang Lee
Sun Yat-Sen University Kaohsiung, Taiwan

A03-03, ISDA-2008-IS03-005
Malicious Webpage Detection by Semantics-Aware Reasoning
Shih-Fen Lin, Yung-Tsung Hou, Chia-Mei Chen, Bingchiang Jeng, and Chi-Sung Laih
Sun Yat-Sen University, Taiwan

A03-04, ISDA-2008-0294
Research on Intelligent Systems Applied to Tourism Development Design
Min Wei
Xiammen University, China

A03-05, ISDA-2008-0440
The Development of a Creativity-Enhancing Model for Innovative Design Concepts
Zhiqiang Zhu, Sev Nagalingam, and Hung-Yao Hsu
University of South Australia, Australia

A03-06, ISDA-2008-1740
A Prediction Mechanism of Mail Retrieval Based on the User Behavior Analysis for Electronic Mail Database System
Wei-Ru Lai, Che-Hui Liao, Chang-Ching Lu, and Ming-Kuan Liao
Yuan Ze University, Taiwan

A03-07, ISDA-2008-IS13-006
Image Registration using Rotation normalized Feature Points
Zhan-Long Yang and Bao-Long Guo
Xidian University, China

A03-08, ISDA-2008-IS13-008
Efficient Intra Refresh Using Motion Affected Region Tracking for Surveillance Video over Error Prone Networks
Jie Jiang, Bao-Long Guo, and Wei Mo
Xidian University, China
A04

Bioinformatics
Fang-Rong Hsu, Feng Chia University, Taiwan
Shou-Hsuan Stephen Huang, University of Houston, USA

A04-01, ISDA-2008-IS18-002
Prediction of Protein Subcellular Localizations
Chin-Sheng Yu and Jenn-Kang Hwang
Feng Chia University, Taiwan

A04-02, ISDA-2008-0539
Advanced Plasmonic Biosensing Devices and Automation Systems for Disease Diagnostic and Drug Screening Applications
Nan-Fu Chiu, Tzuu-Shaang Wey, Chun Yu, Tzu-Chien Hsiao, and Chii-Wann Lin
Taiwan University, Taiwan

A04-03, ISDA-2008-0825
Intelligent Emotion Decision System for Autonomous Agents
Xia Mao, Haiyan Bao, and Zheng Li
Beihang University, China

A04-04, ISDA-2008-1160
Using Multi-attribute Utility Theory to Rank and Select Co-branding Partners
Wei-Lun Chang
Tamkang University, Taiwan

A04-05, ISDA-2008-1241
User Behavior Analysis in Masquerade Detection Using Principal Component Analysis
Han-Ching Wu and Shou-Hsuan Stephen Huang
University of Houston, USA

A04-06, ISDA-2008-1288
Development of an Agent-based Distributed Multi-axis Surface Milling Machining Service System
Yung-Chou Kao and Mau-Sheng Chen
Kaohsiung University of Applied Sciences, Taiwan
A04-07, ISDA-2008-1719
*Fast Parallel Molecular Solution To the Hitting-set Problem*
Nung-Yue Shi and Chih-Ping Chu
National Cheng Kung University, Taiwan

A04-08, ISDA-2008-0036
*Learner Attentiveness Detection based on Image Detection and Fuzzy Logic Analysis*
Kuo-An Hwang and Chia-Hao Yang
Chaoyang University of Technology, Taiwan
A05

*Intelligent Text Categorization and Clustering*
Felipe Maia Galvão França, UFRJ, Brazil
Alberto Ferreira de Souza, UFES, Brazil

A05-01, ISDA-2008-WS05-0268

*Term Weighting Approaches for Text Categorization Improving*
L. A. Matsunaga and N. F. F. Ebecken
Federal University of Rio de Janeiro, Brazil

A05-02, ISDA-2008-WS05-1052

*Using Chi-Square Automatic Interaction Detector to Solve the Polysemy Problems in a Chinese to Taiwanese TTS System*
Yih-Jeng Lin, Ming-Shing Yu, and Chin-Yu Lin
Chien-Kuo Technology University, Taiwan

A05-03, ISDA-2008-WS05-1496

*A Comparison between a KNN based Approach and a PNN Algorithm for a Multi-Label Classification Problem*
Elias Oliveira, Patrick Marques Ciarelli, Claudine Badue, and Alberto Ferreira de Souza
Universidade Federal do Espírito Santo, Brazil

A05-04, ISDA-2008-WS05-1505

*The Influence of Order on a Large Bag of Words*
Charles B. Prado, Felipe M. G. Franc¸a, Ramon Diacovo, and Priscila M. V. Lima
Globo Television Network, Brazil

A05-05, ISDA-2008-WS05-1550

*Improving VG-RAM WNN Multi-label Text Categorization via Label Correlation*
Alberto F. De Souza, Claudine Badue, Bruno Zanetti Melotti, Felipe T. Pedroni, and Fernando L´ıbio L. Almeida
Universidade Federal do Espírito Santo, Brazil

A05-06, ISDA-2008-1562

*Thinned ECOC Decomposition for Gene Expression Based Cancer Classification*
Nima Hatami
Shahed University, Iran
A05-07, ISDA-2008-0065
An Intelligent Agent for Personalized E-Learning
Jin-Ling Lin and Ming-Hung Chen
Shih-Hsin University, Taiwan

A05-08, ISDA-2008-0469
A New Algorithm for Power System Scheduling Problems
Huo-Ching Sun, Yann-Chang Huang, and Kun-Yuan Huang
Cheng Shiu University, Taiwan
A06

*Intelligent Data Analysis and Applications*

Tzung-Pei Hong, University of Kaohsiung, Taiwan
Wen-Yang Lin, University of Kaohsiung, Taiwan
Shusaku Tsumoto, Shimane University, Japan

A06-01, ISDA-2008-IS25-001

*Multilingual Information Retrieval using GHSOM*

Hsin-Chang Yang and Chung-Hong Lee
University of Kaohsiung, Taiwan

A06-02, ISDA-2008-IS25-002

*An Intelligent PPQA Web Services for CMMI Assessment*

Mei-Hui Wang and Chang-Shing Lee
University of Tainan, Taiwan

A06-03, ISDA-2008-0482

*Fuzzy Clustering by Differential Evolution*

Yu-Cheng Kao, Jin-Cherng Lin, and Shin-Chia Huang
Tatung University, Taiwan

A06-04, ISDA-2008-0868

*Analysis and Estimation of Micro-Doppler Effect in Passive Positioning System*

Miaohong Cai, Feng He, and Lenan Wu
Southeast University, China

A06-05, ISDA-2008-1046

*Notes on the Distinction of Gaussian and Cauchy Mutations*

Kuo-Torng Lan and Chun-Hsiung Lan
Takming University of Science and Technology, Taiwan

A06-06, ISDA-2008-1372

*Data Mining of Geographical Accessibility for Tourism in Regional Area*

Koji Okuhara, Kuang-Yih Yeh, Hao-Ching Hsia, and Hiroaki Ishii
Osaka University, Japan

A06-07, ISDA-2008-1696

*Use of NER Information for Improved Topic Tracking*
Xiao-Wei Wang, Long-Bin Jiang, Jia-Lin Ma, and Yan Jiang
Shenyang Normal University, Taiwan

A06-08, ISDA-2008-IS12-005
A Modified Cluster-based Routing Protocol with Cloud Model
Yong Zhang, Yan-Jun Yang, Jian-Peng Xu, and He Wang
Harbin Institute of Technology Shenzhen Graduate School, China
A07

Information Management and Processing
Chin-Chen Chang, Feng Chia University, Taiwan
Chin-Feng Lee, Chaoyang University of Technology, Taiwan

A07-01, ISDA-2008-IS16-001
Web Usage Mining based on Clustering of Browsing Features
Chu-Hui Lee and Yu-Hsiang Fu
Chaoyang University of Technology, Taiwan

A07-02, ISDA-2008-IS16-002
Content-based Image Retrieval Based on Vector Quantization and Affine Invariant Region
Chin-Feng Lee, Shu-Ching Wang, and Yi-Jia Wang
Chaoyang University of Technology, Taiwan

A07-03, ISDA-2008-IS16-003
Novel Algorithms for Privacy Preserving Utility Mining
Jieh-Shan Yeh, Po-Chiang Hsu, and Ming-Hsun Wen
Providence University, Taiwan

A07-04, ISDA-2008-IS16-004
Improvement of Wang-Li’s Forward-Secure User Authentication Scheme with Smart Cards
Wen-Bing Horng and Cheng-Ping Lee
Tamkang University, Taiwan

A07-05, ISDA-2008-0466
Intelligent Data Mining Approach for Fault Diagnosis
Yann-Chang Huang, Huo-Ching Sun, and Yu-Hsun Lin
Cheng Shiu University, Taiwan

A07-06, ISDA-2008-0842
A Rough Set and SVM Based Approach to Chinese Textual Affect Sensing
Xia Mao, Zheng Li, and Haiyan Bao
Beihang University, China

A07-07, ISDA-2008-0497
Fast Estimation of Communication Cost for Thread Mapping in Computation Grids Using SVD
Ti-Hsin Wang, Tyng-Yeu Liang, and Chia-Hao Chang
Kaohsiung University of Applied Sciences, Taiwan

A07-08, ISDA-2008-IS13-002
A Novel Digital Watermarking Method for New Viewpoint Video Based on Depth Map
Ning Zhu, Gui-Guang Ding, and Jian-Min Wang
Tsinghua University, China
A08

Intelligent Interface Design and Application
Ming-Che Hsieh, Taitung University, Taiwan
Guiguang Ding, Tsinghua University, China

A08-01, ISDA-2008-IS07-001
A Multi-Agent based Architecture for an Assistive User Interface of Intelligent Home Environment Control
Chih-Hsien Liang, Wei-Sheng Hung, Ming-Che Hsieh, Chung-Min Wu, and Chin-Hsing Luo
Cheng Kung University, Taiwan

A08-02, ISDA-2008-IS07-002
Spoken Dialogue Agent Interface Requirements Modeling based on PASSI Methodology
Ming-Che Hsieh, Wei-Sheng Hung, Shin-Shing Shin, Shu-Wen Lin, and Tsan-Hsun Huang
Taitung University, Taiwan

A08-03, ISDA-2008-IS07-003
An Intelligent Brain Computer Interface of Visual Evoked Potential EEG
Shih-Chung Chen, Shih-Chang Hsieh, and Chih-Kuo Liang
Southern Taiwan University, Taiwan

A08-04, ISDA-2008-IS07-004
A Multi-Agent based Testbed for Agent Interface Evaluation
Chung-Min Wu, Ming-Che Hsieh, Chih-Kuo Liang, and Chin-Hsing Luo
Kun Shan University of Technology, Taiwan

A08-05, ISDA-2008-1075
Intelligent Focus+Context Volume Visualization
Cheng-Kai Chen, Russell Thomason, and Kwan-Liu Ma
University of California, Davis, USA

A08-06, ISDA-2008-1232
Using MPE with Bayesian Network for Sub-Optimization to Entropy-Based Methodology
Bor-Chen Kuo, Tien-Yu Hsieh, and Hsuan-Po Wang
A08-07, ISDA-2008-0747
Output-Feedback PID Controllers for Robot Manipulators with Jacobian Uncertainty
Chun-Qing Huang and Xia-Fu Peng
Xiamen University, China

A08-08, ISDA-2008-1700
Adaptive $H_\infty$ Tracking Control Design in Robotic Systems With Parameter Perturbation and External Disturbance
Chun-Qing Huang
Xiamen University, China
A09

Soft-computing Technologies & Applications on IEM Intelligent Systems
Tien Tsai Huang, Lunghwa University of Science and Technology, Taiwan
N. F. F. Ebecken, Federal District Legislative Assembly, Brazil

A09-01, ISDA-2008-IS04-001

The Empirical Study of Fuzzy Performance Appraisal Applied on Securities Brokerage
Tien-Tsai Huang and Chien-Yi Chen
Lunghwa University of Science and Technology, Taiwan

A09-02, ISDA-2008-IS04-002

Composite Shewhart-Poisson GWMA Control Chart with Sensitizing Rules
Tse-Chieh Lin
Lunghwa University of Science and Technology, Taiwan

A09-03, ISDA-2008-IS04-003

Fuzzy Multiple Objective Programming Based on Interval-Valued Fuzzy Sets
Teng-San Shih, Huey-Ming Lee, and Jin-Shieh Su
Chinese Culture University, Taiwan

A09-04, ISDA-2008-0217

Genetic Optimization for Benefit-Oriented Data Broadcast in T-learning Environments
Chao-Chun Chen, Yong-Ming Huang, Lien-Fa Lin, and Ding-Chau Wang
Southern Taiwan University, Taiwan

A09-05, ISDA-2008-0488

Using Semi-Discrete Decomposition for Topic Identification
Václav Snášel, Pavel Moravec, and Jaroslav Pokorný
Technical University of Ostrava, Czech

A09-06, ISDA-2008-0795

Implementation of an Intelligent HLA-compliant Application Layer Gateway for Real-time Flight Simulation
Kuo-Wei Meng, Ming-Chuan Hung, Don-Lin Yang, and Yeh-Ching Chung
Feng Chia University, Taiwan
A09-07, ISDA-2008-1302

Fuzzy Logic on Representation of Knowledge Structure and Measure of Similarity with Application on Mathematics Concepts for Pupils

Yuan-Horng Lin, He-Kai Chen, and Wen-Liang Hung
Taichung University, Taiwan
A10

**Evolutionary Multiobjective Optimization -- Design and Applications**
Crina Grosan, Babes-Bolyai University, Romania
Ajith Abraham, Norwegian University of Science and Technology, Norway

A10-01, ISDA-2008-WS02-0728

**Genetic Annealing Optimization: Design and Real World Applications**
Mostafa A. El-Hosseini, Aboul Ella Hassanien, Ajith Abraham, and Hameed Al-Qaheri
Kuwait University, Kuwait

A10-02, ISDA-2008-0693

**A Robust Audio Watermarking Algorithm Based on DCT and Vector Quantization**
Ji-Xin Liu, Zhe-Ming Lu, and Jeng-Shyang Pan
Guangdong Electronics Industry Institute Corp., China

A10-03, ISDA-2008-WS02-0875

**An Approach of Chunk Parsing and Entity Relation Extracting to Chinese Based on Conditional Random Fields Model**
Jun-Hua Wu and Jing Zhou
Nanjing University of Technology, China

A10-04, ISDA-2008-WS02-0962

**Earthquake Shelter Location Evaluation Considering Road Structure**
Yung-Lung Lee, Hiroaki Ishii, and Cheng-An Tai
Chang Jung Christian University, Taiwan

A10-05, ISDA-2008-WS02-1556

**Two Evolutionary Multiobjective Approaches for the Component Selection Problem**
Andreea Vescan and Crina Grosan
Bolyai University, Romania

A10-06, ISDA-2008-WS02-1650

**Uniform Parallel Machines Scheduling using a Genetic Algorithm**
Alin Mihăilă and Cristina Mihăilă
Babeş-Bolyai University, Romania

A10-07, ISDA-2008-WS02-1671
Towards a Suitable Reconciliation of the Findings in Collaborative Fuzzy Clustering
Rafael Falcón, Benoît Depaire, Koen Vanhoof and Ajith Abraham
University of Las Villas (UCLV) Santa Clara, Cuba

A10-08, ISDA-2008-IS17-001

Cryptanalysis of ID-Based Digital Signature Scheme on Elliptic Curve Cryptosystem
Jen-Ho Yang and Chin-Chen Chang
Chung Cheng University, Taiwan
A11

Intelligent Data Analysis and Applications
Shusaku Tsumoto, Shimane University, Japan
Tzung-Pei Hong, University of Kaohsiung, Taiwan
Wen-Yang Lin, University of Kaohsiung, Taiwan

A11-01, ISDA-2008-IS25-004
An Incremental FUSP-Tree Maintenance Algorithm
Chun-Wei Lin, Tzung-Pei Hong, Wen-Hsiang Lu, and Wen-Yang Lin
Cheng Kung University, Taiwan

A11-02, ISDA-2008-IS25-005
An Evolution-based Dynamic Scheduling Algorithm in Grid Computing Environment
Kun-Ming Yu and Cheng-Kwan Chen
Chung-Hua University, Taiwan

A11-03, ISDA-2008-IS25-006
A Data Grid File Replication Maintenance Strategy Using Bayesian Networks
Chao-Tung Yang, Chien-Jung Huang, and Ting-Chih Hsiao
Tunghai University, Taiwan

A11-04, ISDA-2008-0737
Solution of Fuzzy Relational Equation by Real-Valued GA
Leh Luoh
Chung-Hua University, Taiwan

A11-05, ISDA-2008-1613
Database-driven Disease Prevention by Daily Menu Management and Physical Condition
Eri Domoto, Koji Okuhara, and Hiroaki Ishii
Hiroshima University of Economics, Japan

A11-06, ISDA-2008-1126
Feature Selection for Cancer Classification on Microarray Expression Data
Hui-Huang Hsu and Ming-Da Lu
Tamkang University, Taiwan

A11-07, ISDA-2008-1428
Some Software Engineering and Knowledge Representation Principles for the Design and Construction of Ontology-based Linguistic Resources
Francisco Alvarez, Antonio Vaquero, and Fernando Sáenz
Universidad Autónoma de Sinaloa, Spain
A12

Information Management and Processing
Chin-Chen Chang, Feng Chia University, Taiwan
Chin-Feng Lee, Chaoyang University of Technology, Taiwan

A12-01, ISDA-2008-IS16-005
Finding the Complete Set of Minimal Solutions for Fuzzy Max-Archimedean t-Norm Relational Equations
Jun-Lin Lin
Yuan Ze University, Taiwan

A12-02, ISDA-2008-IS16-006
An Authentication Scheme in Peer-to-peer Based Live Stream Sharing Management Systems
Shiuh-Jeng Wang, Yuh-Ren Tsai, and Pin-You Chen
Central Police University, Taiwan

A12-03, ISDA-2008-IS16-007
Interactive Mining of Frequent Patterns in a Data Stream of Time-Fading Models
Ming-Yen Lin, Sue-Chen Hsueh, and Chung-Yi Wang
Feng Chia University, Taiwan

A12-04, ISDA-2008-0461
Hierarchical P2P Networking and Two-level Compression Scheme for Multi-agent System Supporting Context-aware Applications
Joon-Hwang Kim, Jeong-Hun Chu, Seungwok Han, Chang-Won Park, and Hee-Yong Youn
Sungkyunkwan University, Korea

A12-05, ISDA-2008-0848
Detection of the Cardiovascular Diseases by using a Linearly Modeling System with the PSO-based Classification Scheme
Meng-Cheng Shen, Heng-Chou Chen, and Chih-Hui Chen
Chienkuo Technology University, Taiwan

A12-06, ISDA-2008-0881
NOx Estimation based on Flame Image of high Temperature Air Combustion
Zengshou Dong, Mingjun Liu, and Fengchun Zhang
A12-07, ISDA-2008-1088  
*Location Tracking with Power-level Switching for Wireless Sensor Networks*  
Hung-Chi Chu, Chung-Jie Li, Ching-Yun Chen, and Hong-Wen Yu  
Chaoyang University of Technology, Taiwan

A12-08, ISDA-2008-0698  
*The Improvement of Public key Cryptography Based on Chaotic Neural Networks*  
Yunpeng Zhang, Tongtong Xue, Zhengjun Zhai, Chunyan Ma, and Xiaobin Cai  
Northwestern Polytechnical University, China
A13

Emerging Technologies for Intelligent Vehicular Applications
Chung-Ping Young, Cheng Kung University, Taiwan
O. Znamenshchykov, University of Paderborn, Germany

A13-01, ISDA-2008-IS05-003

Cooperative Collision Warning Based Highway Vehicle Accident Reconstruction
Chung-Ping Young, Bao-Rong Chang, and Ren-Yang Fang
Cheng Kung University, Taiwan

A13-02, ISDA-2008-IS05-004

Design of an In-Vehicle Anti-Theft Component
Cheng Kung University, Taiwan

A13-03, ISDA-2008-0119

Point Clouds Construction Algorithm from a Home-made Laser Scanner
Bagus Arthaya and Hendra Gunawan
Parahyangan Catholic University, Indonesia

A13-04, ISDA-2008-0277

The Novel Fuzzy Sliding Mode Control of Synchronous Reluctance Motor
Chien-An Chen, Huann-Keng Chiang, and Chih-Huang Tseng
Yunlin University of Science & Technology, Taiwan

A13-05, ISDA-2008-0474

Immune System assisted Radial Basis Function Network for OFDM System Channel Tracking in Dynamic Environments
Jing-Chen Liu, Xiao-Gang Zang, and Xin-Bao Gong
Shanghai Jiao Tong University, China

A13-06, ISDA-2008-1364

Categorizing Heartbeats by Independent Component Analysis and Support Vector Machines
Kuan-To Chou and Sung-Nien Yu
Wu Feng Institute of Technology, Taiwan
A13-07, ISDA-2008-1553
Wavelet-based Bispectra for Motor Rotor Fault Detection
D.-M. Yang
Kao-Yuan University, Taiwan

A13-08, ISDA-2008-IS17-011
Security Enhancement of Ku-Wang Authenticated Key Agreement Protocol
Chin-Chen Chang and Jung-San Lee
Feng Chia University, Taiwan
A14

Soft-computing Technologies & Applications on IEM Intelligent Systems
Tien Tsai Huang, Lunghwa University of Science and Technology, Taiwan
Frantisek Zboril jr., Faculty of Information Technology, Czech

A14-01, ISDA-2008-IS04-004
Intelligent Stock Selecting via Bayesian Naive Classifiers on the Hybrid Use of Scientific and Humane Attributes
Tien-Tsai Huang and Chir-Ho Chang
Lung-Hua University of Science and Technology, Taiwan.

A14-02, ISDA-2008-IS04-006
Fuzzy Assessment for Sampling Survey Defuzzification by Signed Distance Method
Lily Lin and Huey-Ming Lee
China University of Technology, Taiwan

A14-03, ISDA-2008-1226
Reactive Planning with Weak Plan Instances
Frantisek Zboril, Vladimir Janousek, Radek Koci, and Zdenek Mazal
Brno University of Technology, Czech

A14-04, ISDA-2008-1285
The Design of a Quality Control System of PCB with SMT based on RFID and AOI
Shih-Che Lo and Bei-Ming Li
Taiwan University of Science and Technology, Taiwan

A14-05, ISDA-2008-1326
Architecture Centric Approach to Enhance Software Testing Management
Fu-Shiau Li, Wei-Ming Ma, and Architect Chao
Brogent Technologies, USA

A14-06, ISDA-2008-1565
FCM-based RBF Network in Identifying Concrete Slab Surface Cracks
Young-Woon Woo, Doo-Heon Song, and Kwang-Baek Kim
Dong-Eui University, Korea

A14-07, ISDA-2008-1508
Fault Diagnosis of Generator Based on D-S Evidence Theory
Qing-Dong Du, Jin Li, and Xiao Chen
Software College of Shenyang Normal University, China
Multi-Agent Systems in E-Business: Concepts, Technologies and Applications
Maria Ganzha, Polish Academy of Sciences, Poland
Jian-Chao Zeng, Taiyuan University of Science and Technology, China

Deductive E-bargaining System
United University, Taiwan

Self-Certified Proxy ConvertibleAuthenticated Encryption Scheme
Han-Yu Lin, Tzong-Sun Wu, Ting-Yu Huang, and Yi-Shiung Yeh
Chiao Tung University, Taiwan

A Real Time Spatial/Temporal/Motion Integrated Surveillance System in Compressed Domain
Chen-Chiung Hsieh, Wei-Ru Lai, and Albert Chiang
Tatung University, Taiwan

Implementation of Wiki-based Knowledge Management Systems for Small Research Groups
Chia-Han Yang, Ming-Ying Wu, Chien-Min Lin and Don-Lin Yang
Feng Chia University, Taiwan

Design and Application of a Reconfigurable Embedded system
Ching-Biau Tzeng, Tzuu-Shaang Wey, and Li-Dao Fang
Kun Shan University, Taiwan

Mobile Robot Path Planning base on the Hybrid Genetic Algorithm in Unknown Environment
Yong Zhang, Lin Zhang, and Xiao-Hua Zhang
School of Control Science and Engineering, University of Jinan, China
A15-07, ISDA-2008-0080

The Design and Implementation of Zero-Copy for Linux

Tian-Hua Liu, Hong-Feng Zhu, Gui-Ran Chang, and Chuan-Sheng Zhou
Shenyang Normal University, China
B01

Patten Recognition and Signal Process
O. Znamenshchykov, University of Paderborn, Germany
Hsiang-Cheh Huang, University of Kaohsiung, Taiwan

B01-01, ISDA-2008-1212

Predicting Protein-Protein Recognition Using Feature Vector
Huang-Cheng Kuo, Ping-Lin Ong, Jia-Jie Li, and Jen-Peng Huang
Chiayi University, Taiwan

B01-02, ISDA-2008-1572

PCA-Based Face Verification and Passport Code Recognition Using Improved FKCN Algorithm
Kwang-Baek Kim, Am-suk Oh, and Young Woon Woo
Silla University, Korea

B01-03, ISDA-2008-1646

An Approach for Achieving Self-Optimization in Mechatronic Systems Supported by Active Patterns
J. Gausemeier, O. Znamenshchykov, S. Oberthür, and H. Podlogar
University of Paderborn, Germany

B01-04, ISDA-2008-IS11-003

2D/3D Face Recognition Using Neural Networks Based on Hybrid Taguchi-Particle Swarm Optimization
Cheng-Jian Lin, Chen-Hsiang Chu, Chi-Yung Lee, and Ya-Tzu Huang
Chin-Yi University of Technology, Taiwan

B01-05, ISDA-2008-IS13-012

FFT-based Orientation Recognition Algorithm in Mirosot
Xian-Xiang Wu and Bao-Long Guo
ICIE Institute Xidian University, China

B01-06, ISDA-2008-1187

A Novel Template Protection Algorithm for Iris Recognition
Zhi-Fang Wang, Qi Han, Xia-Mu Niu, and Christoph Busch
Harbin Institute of Technology, China
B01-07, ISDA-2008-1722

Semi-supervised Laplacianfaces from Pairwise Constraints for Face Recognition

Na Wang and Xia Li
Shenzhen University, China
**B02**

*Software Agent*
Jim-Min Lin, Feng Chia University, Taiwan  
Michal Wozniak, Wroclaw University of Technology, Poland

**B02-01, ISDA-2008-IS15-001**
*An Efficient Forward and Backward Fault-Tolerant Mobile Agent System*
Jong-Shin Chen, Hong-Da Shi, Ching-Mu Chen, Zeng-Wen Hong, and Pei-Lin Zhong  
ChaoYang University of Technology, Taiwan

**B02-02, ISDA-2008-IS15-002**
*Design of an IDML-based Interactive Agent Drama Authoring Tool*
Tai-Hong Chen, Jim-Min Lin, Kai-Yi Chin, and Zeng-Wei Hong  
Feng Chia University, Taiwan

**B02-03, ISDA-2008-IS15-004**
*Applying Agent Composition for Development of Service-oriented Program Language*
Jong-Yih Kuo, Frank Hsieh, and Ho-Chin Lin  
Taipei University of Technology, Taiwan

**B02-04, ISDA-2008-IS15-005**
*Students' attention in Learning Process as a Research Domain: Software Agent Promotes Human-Robot-Computer Interaction*
Sheng-Hui Hsu and Yueh-Min Huang  
Cheng Kung University, Taiwan

**B02-05, ISDA-2008-0451**
*Population Control for Multi-Agent Based Topical Crawlers*
Alban Mouton and Pierre-Francois Marteau  
VALORIA Université de Bretagne Sud Université Européenne de Bretagne Vannes, France

**B02-06, ISDA-2008-1268**
*Detection Method Based on Reverse Proxy Against Web Flooding Attacks*
Chu-Hsing Lin, Jung-Chun Liu, and Chih-Chieh Lien  
Tunghai University, Taiwan

**B02-07, ISDA-2008-0327**
PNagent: a Framework for Modelling BDI Agents using Object Oriented Petri Nets
Zdeněk Mazal, Radek Koči, Vladimír Janoušek, and František Zbořil
Brno University of Technology, Czech
B03
Fuzzy Applications
Bih-Yaw Shih, Pingtung University of Education, Taiwan
Chu-Fu Wang, Pingtung University of Education, Taiwan

B03-01, ISDA-2008-0425
Fuzzy Possibility C-Mean Based on Complete Mahalanobis Distance and Separable Criterion
Hsiang-Chuan Liu, Der-Bang Wu, Jeng-Ming Yih, and Shin-Wu Liu
Asia University, Taiwan

B03-02, ISDA-2008-IS11-007
Design of Self-Learning Fuzzy System by GA Approach
Shian-Tang Tzeng
Kao Yuan University, Taiwan

B03-03, ISDA-2008-1634
A Fuzzy Neural Network Based on Particle Swarm Optimization Applied in the Speech Recognition System
Xue-Ying Zhang, Ying Sun, Xiao-Mei Zhang, and Peng Wang
Taiyuan University of Technology, China

B03-04, ISDA-2008-0871
Nonlinear Function Approximation Based on Least Wilcoxon Takagi-Sugeno Fuzzy Model
Tsung-Ying Sun, Shang-Jeng Tsai, Cheng-Han Tsai, Chih-Li Huo, and Chan-Cheng Liu
Dong Hwa University, Taiwan

B03-05, ISDA-2008-1665
Tardiness in Fuzzy Flow Shop Scheduling Problems Based on Possibility and Necessity Measures
Peng-Jen Lai and Ming-Hung Shu
Kaohsiung Normal University, Taiwan

B03-06, ISDA-2008-1033
Facility Location Problem under Fuzzy Construction Cost and Preference of Candidate Sites
Hiroaki Ishii and Yung-Lung Lee
Osaka University, Japan

B03-07, ISDA-2008-0658

The Reform Schema and Usability of TD-SCDMA Smart Antenna

Hai-Yang Fu, Xiao-Chun Qu, and You-Cai Han
Nanjing University of Posts and Telecommunications, China
B04

Web-related Application and Information Retrieval
Chang-Won Park, Sungkyunkwan University, Korea
Junzo Watada, Waseda University, Japan

B04-01, ISDA-2008-IS15-003

The Study of Backup Mechanism for Web Services Based on MAS and Topic Maps
Feng-Chao Yang, Jin-Ling Liao, and Cheng-Li Chang
Da-Yeh University, Taiwan

B04-02, ISDA-2008-1440

Comparing Query Similarity Measures for Collaborative Web Search
Pavel Kr’omer, Vˇaclav Sn´aˇsel, and Jan Platoˇs
Technical University of Ostrava, Czech

B04-03, ISDA-2008-0165

Ontology-Supported Focused-Crawler for Specified Scholar’s Webpages
Sheng-Yuan Yang and Chun-Liang Hsu
St. John’s University, Taiwan

B04-04, ISDA-2008-0493

A Renewed Matrix Model for XML Data
Jaroslav Pokorný, Jan Vávra, and Vaclav Snášel
Charles University, Czech

B04-05, ISDA-2008-1013

Adaptive Knowledge Retrieving on Mobile Grid
Yue-Shan Chang, Pei-Chun Shih, and Yu-Cheng Luo
Taipei University, Taiwan

B04-06, ISDA-2008-1453

Ontology Model for Multi-Relational Data Mining Application
Silvio Bortoleto and Nelson F. F. Ebecken
Federal University of Rio de Janeiro, Brazil

B04-07, ISDA-2008-IS06-002

An Efficient Data Retrieval Indexing Structure for Wireless Broadcasting System
Lien-Fa Lin and Chao-Chun Chen
B05

Poster Session (I)

P01-01, ISDA-2008-IS02-004
Object-Based Image Retrieval using Perceptual Grouping
Tian-Luu Wu and Ji-Hwei Horng
Kinmen Institute of Technology, Taiwan

P01-02, ISDA-2008-IS25-003
A DEA/AHP Approach to Efficiency Investigation for Taiwan’s Retailing Industry via Financial Data Analysis
Ya-Fen Tseng, Shu-Chen Kao, Tzai-Zang Lee, and Chien-Hsing Wu
Cheng Kung University, Taiwan

P01-03, ISDA-2008-1098
Monitoring System for Vehicle Power Supply Based on CAN Bus
Sujing Wang, Lide Wang, Ping Shen, and Biao Liu
Beijing Jiaotong University, China

P01-04, ISDA-2008-0564
Verification of Mobile SMS Application with Model Checking Agent
Siti Dianah Abdul Bujang and Ali Selamat
Universiti Teknologi Malaysia, Malaysia

P01-05, ISDA-2008-0647
CCSDS Advanced Orbiting Systems, Data Links Protocol: Study on Virtual Channels Scheduling Algorithm
Qingli Liu, Cheng-Sheng Pan, Guoren Wang, and Wei Liu
Northeastern University, China

P01-06, ISDA-2008-0772
A Two-Stage Approach for AAM Fitting
Mingcai Zhou, Yangs-Heng Wang, Xiao-Yan Wang, and Xue-Tao Feng
Institute of Automation Chinese Academy of Sciences Beijing, China

P01-07, ISDA-2008-0856
Low Complexity Search Method for G.723.1 MP-MLQ Algorithm
R.-S. Lin, Y.-C. Chen, and F.-K. Chen
P01-08, ISDA-2008-0939
Sequential Quadratic Programming based on IPM for Constrained Nonlinear Programming
Ximing Liang, Hassan A. Bashir, and Shanchun Li
Central South University, China

P01-09, ISDA-2008-0948
A Scene Images Classification Method Based on Local Binary Patterns and Nearest-Neighbor Classifier
Guang Han and Chunxia Zhao
Nanjing University of Science and Technology, China

P01-10, ISDA-2008-0989
Application of Neural Network Techniques on Nonlinear Channel Equalization for 16-QAM Modulation Systems
Chun-Yi Lo and Wan-De Weng
Yunlin University of Science & Technology, Taiwan

P01-11, ISDA-2008-1064
An Evolutionary Classifier Based on Adaptive Resonance Theory Network II and Genetic Algorithm
I-En Liao, Shu-Ling Shieh, and Hui-Ching Chen
Chung-Hsing University, Taiwan

P01-12, ISDA-2008-WS02-0790
Applying Experimental Statistical Method for the Preparation of Nanometric-Sized LiNi0.8Co0.2O2 Powders as a Cathode Material for Lithium Batteries
Ching-Shieh Hsieh, Hsin-Ya Huang, Hui-Ling Fang, and Wein-Duo Yang
Fooyin University, Taiwan
B06

Computer Network
Shing-Tai Pan, University of Kaohsiung, Taiwan
Xuan Wang, Harbin Institute of Technology Shenzhen Graduate School, China

B06-01, ISDA-2008-IS08-002
The Development of Enhanced Hash Mechanism for Improving Performance of IEEE 802.15.4
Bih-Yaw Shih and Jyun-Ying Tseng
Pingtung University of Education, Taiwan

B06-02, ISDA-2008-IS08-004
Efficient Deployment Algorithms for Prolonging Network Lifetime and Ensuring Coverage in Wireless Sensor Networks
Chu-Fu Wang and Shu-Chien Huang
Pingtung University of Education, Taiwan

B06-03, ISDA-2008-WS06-0597
A Collision Avoidance Protocol for Supporting All-optical Ring Network
Wen-Ping Chen, Shih-Wei Kau, Wen-Shyang Hwang, Bin-Yih Liao, and Wen-Tsung Hu
Kaohsiung University of Applied Science, Taiwan

B06-04, ISDA-2008-IS12-007
P2P Recommendation Trust Model
Xuan Wang and Lei Wang
Harbin Institute of Technology Shenzhen Graduate School, China

B06-05, ISDA-2008-0265
One/T-time Signatures using Self-certified Public Keys
Dai-Rui Lin, Chih-I Wang, and D.-J. Guan
Sun Yat-sen University, Taiwan

B06-06, ISDA-2008-0686
Untraceable Identity Management Framework for Mobile Access
Min-Chih Kao, Yi-Shiung Yeh, and Chuan-Chi Wang
Chiao-Tung University, Taiwan
B06-07, ISDA-2008-IS06-004

An Intelligent Monitoring System for Local-Area Network Traffic

Mong-Fong Horng and Ming-Han Wan

Kaohsiung University of Applied Sciences, Taiwan.
B07

Clustering, Classification and Database
Silvio Bortoleto, University Positivo, Brazil
Siti Mariyam Hj., University Teknologi Malaysia, Malaysia

B07-01, ISDA-2008-IS11-001
Unsupervised Clustering by Means of Hierarchical Differential Evolution Algorithm
Chih-Chin Lai, Pei-Fen Lee, and Pei-Yun Hsieh
University of Kaohsiung, Taiwan

B07-02, ISDA-2008-1244
Experiments with boosted decision tree classifiers
Michal Wozniak
Wroclaw University of Technology, Poland

B07-03, ISDA-2008-1376
Boosted Voting Scheme on Classification
Chien-Hsing Chen and Chung-Chian Hsu
Yunlin University of Science and Technology, Taiwan

B07-04, ISDA-2008-1305
Knowledge Management on Concept Structure Analysis with Weighted Polytomous Ordering Theory and Cluster Analysis
Yuan-Horng Lin, Shin-Yu Chang, and Sen-Chi Yu
Taichung University, Taiwan

B07-05, ISDA-2008-1491
Classifier Fusion Based on Weighted Voting-Analytical and Experimental Results
Michal Wozniak
Wroclaw University of Technology, Poland

B07-06, ISDA-2008-0274
A Modular Method for Estimating Null Values in Relational Database Systems
Shin-Jye Lee and Xiaojun Zeng
The University of Manchester, United Kingdom
B08

*Computational Intelligence and Its Applications*
Yong Zhang, University of Jinan, China
Ku Ruhana Ku-Mahamud, Universiti Utara Malaysia, Malaysia

B08-01, ISDA-2008-1434

*On Genetic Algorithms for Boolean Matrix Factorization*
V’aclav Sn’ásel, Jan Plato’s, and Pavel Krömer
Technical University of Ostrava, Czech

B08-02, ISDA-2008-IS13-009

*Convergence Analysis of PSO inspired by r- and K-selection*
Yunyi Yan and Bao-Long Guo
Xidian University, China

B08-03, ISDA-2008-0103

*Inertia-Adaptive Particle Swarm Optimizer for Improved Global Search*
Kaushik Suresh, Sayan Ghosh, Debarati Kundu, Abhirup Sen, Swagatam Das, and Ajith Abraham
Jadavpur University, India

B08-04, ISDA-2008-1746

*DNA Computing and Its Applications*
Junzo Watada and Rohani binti abu Bakar
Waseda University, Japan

B08-05, ISDA-2008-0056

*Ant System Algorithm with Negative Pheromone for Course Scheduling Problem*
Djasli Djamarus and Ku Ruhana Ku-Mahamud
Trisakti University, Indonesia

B08-06, ISDA-2008-1728

*Solving TSP with Shuffled Frog-Leaping Algorithm*
Xue-Hui Luo, Ye Yang, and Xia Li
Shenzhen University, China

B08-07, ISDA-2008-1705

*An Improved PSO with Time-Varying Accelerator Coefficients*
Zhi-Hua Cui, Jian-Chao Zeng, and Yu-Feng Yin
Taiyuan University of Science and Technology, China
B09

Watermarking and Signal Processing
Aboul Ella Hassanien, College of Business Administration, Kuwait
Hsiang-Cheh Huang, University of Kaohsiung, Taiwan

B09-01, ISDA-2008-IS13-005

Robust Image Watermarking Using Mean Quantization in DTCWT Domain
Bao-Long Guo, Lei-Da Li, Jeng-Shyang Pan, Liu Yang, and Xiao-Yue Wu
Xidian University, China

B09-02, ISDA-2008-IS08-003

The Image Watermarking Technique Using Visual Secret Sharing Strategy
Shu-Chien Huang and Chu-Fu Wang
Pingtung University of Education, Taiwan

B09-03, ISDA-2008-0146

A Novel Image Authentication and Recovery Method for Applications of Image Sharing
Chiang-Lung Liu
Defense University Tahsi, Taiwan

B09-04, ISDA-2008-WS06-0356

Image Hiding with an Improved Genetic Algorithm and an Optimal Pixel Adjustment Process
Lin-Yu Tseng, Yung-Kuan Chan, Yu-An Ho, and Yen-Ping Chu
Chung Hsing University, Taiwan

B09-05, ISDA-2008-1042

Multi-user Signals Combined with Quadratic Residue Code for Monitoring System
Chien-Jung Ho, Wen-Hao Hsieh, and Gwo-Jia Jong
Kaohsiung University of Applied Sciences, Taiwan

B09-06, ISDA-2008-1317

State Estimation of ALV Integrated Navigation System Based on BP Neural Network
Mei-Ling Wang and Yong-Wei Fu
Beijing Institute of Technolog, China

B09-07, ISDA-2008-IS06-001
A Novel Fitness Function in Genetic Algorithms to Optimize Neural Networks for Imbalanced Data Sets

Kuan-Chieh Huang, Yau-Hwang Kuo, and I-Cheng Yeh
Chen-Kung University, Taiwan
Poster Session (II)

P02-01, ISDA-2008-IS04-005
The Neural Network Algorithm for Data-Mining in Dynamic Environments
Ching-Lien Huang, Tsung-Shin Hsu, and Chih-Ming Liu
Tsing Hua University, Taiwan

P02-02, ISDA-2008-IS13-003
A Novel Algorithm for Object Tracking with Particle Filtering and GVF-snake
Chun-Li Dong and Yu-Ning Dong
Nanjing University of Posts and Telecommunications, China

P02-03, ISDA-2008-IS13-004
Anomaly Detection in Computer Networks using Dissimilarity-Based One-Class Classifiers
Jun Ma and Guan-Zhong Dai
Northwestern Polytechnical University, China

P02-04, ISDA-2008-WS01-1171
A Face Image Database for Evaluating Out-of-Focus Blur
Qi Han, Meihui Zhang, Chen Song, Zhi-Fang Wang, and Xia-Mu Niu
Harbin Institute of Technology, China

P02-05, ISDA-2008-WS01-1181
Digital Watermark for 3D Face Model Authentication and EER Performance Analysis
Wen-Jun Huang, Xia-Mu Niu, Wei Song, and Mei-Yu Lu
Harbin Institute of Technology, China

P02-06, ISDA-2008-0040
Improving the Efficiency of Forward Checking Algorithm for Solving Constraint Satisfaction Problems
Yusef Farhang, M.R. Meybodi, and A.R. Hatamlou
Islamic Azad University, Iran

P02-07, ISDA-2008-0076
A Fast Elastic Net Method for Traveling Salesman Problem
Junyan Yi, Weixing Bi, Gang Yang, and Zheng Tang
Neural Network for Routing in a Directed and Weighted Graph
Mehran Ghaziasgar and Armin Tavakoli Naeini
Islamic Azad University of Majlesi, Iran

A Dynamic Weighting Scheme for Providing Fair Communication Service to Nomadic Agents
Sang-Won Rhee, Kyu-Yeong Jeon, Sung-Keun Song, Hyung-Su Lee, and Hee-Yong Youn
Sungkyunkwan University, Korea

Segmentation of Brain Internal Structures Automatically Using Non-Rigid Registration with Simultaneous Intensity and Geometric Match
Xiangbo Lin, Tianshuang Qiu, Su Ruan, and Morain-Nicolier Frederic
Dalian University of Technology, China

Automatic Learning of Semantic Region Models for Event Recognition
Lei Gao, Chao Li, Yi Guo and Zhang Xiong
Beihang University, China
B11

Image Processing
Bao-Long Guo, Xidian University, China
Russell J. Abbott, California State University, USA

B11-01, ISDA-2008-WS06-1526
A GA-based Image Halftoning Technique
Chih-Cheng Lo, Yi-Ting Chen, Shu-Chuan Chu, and Jeng-Shyang Pan
Kaohsiung University of Applied Science, Taiwan

B11-02, ISDA-2008-IS13-010
A Statistical Speckle Suppression Algorithm for Underwater Laser Image based on Nonsubsampled Contourlet Transform
Liu Yang, Bao-Long Guo, and Wei Ni
Xidian University, China

B11-03, ISDA-2008-0751
Estimation of Skin Color Range using Achromatic Features
Wen-Hung Liao and Yu-Hao Chi
Chengchi University, Taiwan

B11-04, ISDA-2008-1294
A High Performance Filter Based on Statistic Methods for Image Processing
Pao-Ta Yu, Yui-Lang Chen, and Bae-Muu Chang
Chung Cheng University, Taiwan

B11-05, ISDA-2008-IS13-011
A Panoramic Image Stabilization System based on Block Motion Iteration
Juan-Juan Zhu and Bao-Long Guo
ICIE Institute Xidian University, China

B11-06, ISDA-2008-1309
Wavelet-based Image Fusion by Adaptive Decomposition
Yao-Hong Tsai and Yen-Han Lee
Hsuan Chuang University, Taiwan

B11-07, ISDA-2008-IS13-013
Robust Object Tracking via Hierarchical Particle Filter
**B12**
*Control and Signal Processing*
Shing-Tai Pan, University of Kaohsiung, Taiwan
Arturo I Concepcion, California State University, USA

**B12-01, ISDA-2008-0757**
*Petri net based Synthesis method to construct Optimal controllers and its application to a Jobshop scheduling*
Eun Joo Lee, In-Jae Jeong, and Jeehyoung Lee
Hanyang University, Korea

**B12-02, ISDA-2008-0389**
*Design and Simulation of a Sliding Mode Controller for Reducing Radial Vibration of an Eccentric Rotor Equipped with an Automatic Dynamic Balancer*
Chun-Lung Huang
Chung Chou Institute of Technology, Taiwan

**B12-03, ISDA-2008-0674**
*An Embedded Fuzzy Type-2 Controller Based Sensor Behavior for Mobile Robot*
Siti Nurmaini and Siti Zaiton Mohd Hashim
University of Sriwijaya, Indonesia

**B12-04, ISDA-2008-IS11-005**
*Design of Fractional PID Control via Hybrid of Electromagnetism-like and Genetic Algorithms*
Fu-Kai Chang and Ching-Hung Lee
Yuan Ze University, Taiwan

**B12-05, ISDA-2008-IS11-006**
*The Application of Genetic Algorithm on Control of Discrete Multiple Time-Delay Singularity Perturbation Systems*
Shin-Jang Pan and Jason S.-H. Tsai
Cheng-Kung University, Taiwan

**B12-06, ISDA-2008-0786**
*Equivalence between Weight Decay Learning and Explicit Regularization to Improve Fault Tolerance of RBF*
John Sum, Wun-He Luo, Yung-Fa Huang, and You-Ting Jheng
Chung Hsing University, Taiwan

**B12-07, ISDA-2008-IS11-008**

_Differential Evolution Algorithm on Robust IIR Filter Design and Implementation_

Shing-Tai Pan, Bo-Yu Tsai, and Chao-Shun Yang
University of Kaohsiung, Taiwan
B13

Signal Processing (I)
Xuan Wang, Harbin Institute of Technology Shenzhen Graduate School, China
Yong Zhang, Harbin Institute of Technology Shenzhen Graduate School, China

B13-01, ISDA-2008-IS08-001
A Scanning Method for Dotted Data Matrix
Yuan-Fei Cheng
Meiho Institute of Technology, Taiwan

B13-02, ISDA-2008-0945
A Hybrid Feature Selection Mechanism
Hui-Huang Hsu, Cheng-Wei Hsieh, and Ming-Da Lu
Tamkang University, Taiwan

B13-03, ISDA-2008-IS11-002
Support Vector Regression for GDOP
Wei-Han Su and Chih-Hung Wu
Shu-Te University, Taiwan

B13-04, ISDA-2008-0435
Compute the Term Contributed Frequency
Cheng-Lung Sung, Hsu-Chun Yen, and Wen-Lian Hsu
Taiwan University, Taiwan

B13-05, ISDA-2008-0762
Rescheduling for Manufacturing Based on Ontology and Problem Solving Method
Muhammad Firdaus B. Mustapha and Safaai B. Deris
Universiti Teknologi Malaysia, Malaysia

B13-06, ISDA-2008-1472
Evaluation of Automatic Text Summarization Methods Based on Rhetorical Structure Theory
Vinicius Rodrigues Uzêda, Thiago Alexandre Salgueiro Pardo, Maria das Graças Volpe Nunes
Universidade de São Paulo, Brazil

B13-07, ISDA-2008-1152
GM (1, 1) and DEA Application Model for Strategic Alliance in Taiwan
Chia-Nan Wang and Ya-Ru Lee
Kaohsiung University of Applied Sciences, Taiwan

B13-08, ISDA-2008-1203
An Exploratory Study on Malay Processing Tool for Acquisition of Taxonomy Using FCA
Mohd Zakree Ahmad Nazri, Siti Mariyam Shamsudin, and Azuraliza Abu Bakar
Universiti Kebangsaan Malaysia, Malaysia
**B14**

*Signal Processing (II)*

Mong-Fong Horng, Kaohsiung University of Applied Sciences, Taiwan
Michal Wozniak, Wroclaw University of Technology, Poland

**B14-01, ISDA-2008-0430**

*Heuristics for Dynamic Lot-Sizing with Plan Setup Cost in a Rolling Horizon Environment*

Yooseong Choi and In-Jae Jeong
Hanyang University, Korea

**B14-02, ISDA-2008-0112**

*Spider Search: an Efficient and Non-Frontier-Based Real-Time Search Algorithm*

Chao-Lin Chu, Russell J. Abbott, and Debora K. Shuger
California State University, USA

**B14-03, ISDA-2008-0506**

*H-Index Analysis of Enron Corpus*

Václav Snášel, Jiří Dvorský, Anton Timofieiev, and Jaroslav Pokorný
Technical University of Ostrava, Czech

**B14-04, ISDA-2008-0070**

*A Study on the Applications of Learning Paths Concepts to the Teaching in Elementary School*

Huan-Ming Chuang and Chia-Cheng Shen
Yunlin University of Science and Technology, Taiwan

**B14-05, ISDA-2008-IS12-008**

*Risk Dominance Strategy in Imperfect Information Multi-Player Game*

Xuan Wang, Jia-Jia Zhang, Xin-Xin Xu, and Zhao-Yang Xu
Harbin Institute of Technology Shenzhen Graduate School, China

**B14-06, ISDA-2008-1387**

*An Efficient Heuristic for Minimizing Maximum Lateness on Parallel Batch Machines*

Tsung-Che Chiang, Hsueh-Chien Cheng, and Li-Chen Fu
Taiwan University, Taiwan
Robust Image Hashing for Image Authentication Based on DCT-DWT Composite Domain
Rui-Xin Zhan, K.-Y. Chau, Zhe-Ming Lu, Bei-Bei Liu, and W.-H. Ip
Sun Yat-Sen University, China.

Comments on “A Semi-blind Digital Watermarking Scheme Based on Singular Value Decomposition”
Ting-Xian Zhang, Wei-Min Zheng, Zhe-Ming Lu, and Bei-Bei Liu
Sun Yat-sen University, China

A High Efficiency protocol for reporting integrity measurements
Chao-Wen Chang, Rong-Yu He, Hui Xie, and Guo-Yu Xu
Xi’an Jiaotong University, China

A Distributed Algorithm for 0-1 Knapsack Problem Based on Mobile Agent
Shan-Ping Qiao, Shi-Xian Wang, Yong-Zheng Lin, and Ling Zhao
University of Jinan, China

Research on Solar Photovoltaic Surveillance System Base on Network
Li-De Jun, Liu Jie, and Tian-Yu Kang
Wu Han University of Science and Engineering, China

Fuzzy Logic Controllers for a Seismic Isolation System with Variable Friction Damper
Ging-Long Lin and Lyan-Ywan Lu
Kaohsiung First University of Science and Technology, Taiwan

Enhance Term Weighting Algorithm as Feature Selection Technique for Illicit Web
Content Classification
Zhi-Sam Lee, Mohd Aizaini Maarof, Ali Selamat, and Siti Mariyam Shamsuddin
Universiti Teknologi Malaysia, Malaysia

P03-08, ISDA-2008-0813
Multi-scale Entropy Based Traffic Analysis and Anomaly Detection
Ruo-Yu Yan and Qing-Hua Zheng
Xi’an Jiaotong University, China

P03-09, ISDA-2008-0985
Intelligent Control for Principal Axis of Variable Vector Propeller of Submersible Vehicle
Sheng Liu and Dong-Hao Xu
University of Harbin Engineering, China

P03-10, ISDA-2008-1522
Neural Network Integration Fusion Model and Application
Xiao-Dan Zhang and Zhen-Dong Niu
Beijing Institute of Technology, China

P03-11, ISDA-2008-1709
A Kind of Parallel Reference Frame Display Control Algorithm
Bo-Wen Fu, Wen-He Zhang, and Lian-Qiang Niu
Shenyang University of Technology, China

P03-12, ISDA-2008-1712
A Moving Objects Detection Algorithm Based on Improved Background Subtraction
Lian-Qiang Niu and Nan Jiang
Shenyang University of Technology, China
C01

*Digital Crime, Forensics and E-Commerce Security*
Der-Chyuan Lou, Defense University, Taiwan
Chia-Long Wu, Air Force Institute of Technology, Taiwan
Wei-Bin Lee, Feng Chia University, Taiwan

C01-01, ISDA-2008-IS14-002
*An A Model for a Distance Learning System over the Internet*
Alessandro Brawerman, Cícero F. Marques, and Rafael Ribeiro Macedo
Positivo University, Brazil

C01-02, ISDA-2008-IS14-003
*E-Business Model Approach to Determine Models to Datawarehouse*
Diego Alex Harmatiuk, Silvio Bortoleto, Wesley Pereira de Oliveira, Durval Neto,
and Everson Volaco
Positivo University, Brazil

C01-03, ISDA-2008-IS20-002
*A Reversible Steganographic Algorithm for Point-Sampled Geometry*
Peng-Cheng Wang, Kuo-Chin Wu, and Chung-Ming Wang
Hsiu Ping Institute of Technology, Taiwan

C01-04, ISDA-2008-IS20-004
*An Ordered Multi-Proxy Multi-Signature Scheme*
Min-Shiang Hwang, Shiang-Feng Tzeng, and Shu-Fen Chiou
Chung Hsing University, Taiwan

C01-05, ISDA-2008-0743
*Reversible watermarking Based on the Invariant Sum Value*
Shao-Wei Weng, Yao Zhao, Jeng-Shyang Pan, and Ron-Grong Ni
Beijing Jiaotong University, China

C01-06, ISDA-2008-0574
*Intelligent Aging Estimation Method for Lead-Acid Battery*
Yu-Hua Sun, Hurng-Liahng Jou, and Jinn-Chang Wu
Kaohsiung University of Applied Sciences, Taiwan

C01-07, ISDA-2008-IS17-002
A Customer Privacy Protection Protocol on Agent-based Electronic Commerce Transaction
Yu-Yi Chen, Jun-Chao Lui, and Shin-I Chen
Chung-Hsing University, Taiwan

C01-08, ISDA-2008-IS17-003
A Fair-use DRM System based on Web Service
Yu-Yi Chen, Yao-Jen Wang, and Cheng-Jie Chen
Chung-Hsing University, Taiwan
C02

*Intelligent Adaptive System (I)*

Siti Shamsuddin, Universiti Teknologi Malaysia, Malaysia
Siti Zaiton Mohd Hashim, Universiti Teknologi Malaysia, Malaysia

C02-01, ISDA-2008-WS07-0580

*Combining Clustering and Bayesian Network for Gene Network Inference*

Suhaila Zainudin and Safaai Deris

Universiti Kebangsaan Malaysia, Malaysia

C02-02, ISDA-2008-WS07-0591

*A Sort-based DBA Algorithm for EPON System*

Wen-Ping Chen, Shih-Wei Kau, Bin-Yih Liao, Wen-Shyang Hwang, and Wen-Tsung Hu

Kaohsiung University of Applied Science, Taiwan

C02-03, ISDA-2008-WS07-0603

*Immune Network for Classifying Heterogeneous Data*

Mazidah Puteh, Abdul Razak Hamdan, Khairuddin Omar, and Azuraliza Abu Bakar

Universiti Teknologi MARA, Malaysia

C02-04, ISDA-2008-WS07-0606

*Application of Grey Relational Analysis for Multivariate Time Series*

Roselina Sallehuddin, Siti Mariyam Hj. Shamsuddin, and Siti Zaiton Mohd Hashim

Universiti Teknologi Malaysia, Malaysia

C02-05, ISDA-2008-WS07-0633

*An Agent Based Rough Classifier for Data Mining*

Azuraliza Abu Bakar, Zulaiha Ali Othman, Abdul Razak Hamdan, Rozianiwati Yusof, and Ruhaizan Ismail

Universiti Kebangsaan Malaysia, Malaysia

C02-06, ISDA-2008-1601

*Backward-Forward Combined Convolutive Blind Source Separation*

Xiaoyue Jiang, Hichem Sahli, Werner Verhelst, and Yanning Zhang

Vrije Universiteit Brussel, Belgium
C03

Machine Learning, Evolutionary Computation and Their Applications
Ikuko Nishikawa, Ritsumeikan University, Japan
Yen-Wei Chen, Ritsumeikan University, Japan

C03-01, ISDA-2008-IS22-001
Genetics-Based Machine Learning Approach for Rule Acquisition in an AGV Transportation System
Kazutoshi Sakakibara, Yoshiro Fukui, and Ikuko Nishikawa
Ritsumeikan University, Japan

C03-02, ISDA-2008-IS22-002
Effective Integration of Imitation Learning and Reinforcement Learning by Generating Internal Reward
Keita Hamahata, Tadahiro Taniguchi, Kazutoshi Sakakibara, Ikuko Nishikawa, Kazuma Tabuchi, and Tetsuo Sawaragi
Ritsumeikan University, Japan

C03-03, ISDA-2008-IS22-003
Multimodal Medical Image Registration Using Particle Swarm Optimization
Yen-Wei Chen, Chen-Lun Lin, and Aya Mimori
Central South University of Forestry and Tech., China

C03-04, ISDA-2008-IS22-004
A Heuristic Decoding Method for Coded Images of Uniformly Redundant Array
Shinya Nozaki, Shinsuke Fujioka, and Yen-Wei Chen
Okinawa National College of Technology, Japan

C03-05, ISDA-2008-IS22-006
3D Function Approximation with rGCS Classifier System
Łukasz Cielecki and Olgierd Unold
Wroclaw University of Technology, Poland

C03-06, ISDA-2008-0809
A Novel Prediction Algorithm of Thermostable Proteins by Using Hurst Exponent and Choquet Integral Regression Model
Hsiang-Chuan Liu, Yu-Chieh Tu, Bai-Cheng Jeng, and Tung-Sheng Liu
Asia University, Taiwan
C03-07, ISDA-2008-0665

Research on the Reciprocity of Transceiver in the Smart Antenna Application

Haiyang Fu, Peng Gao, and Haibao Ding
Nanjing University of Posts and Telecommunications, China
Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography

Chia-Chen Lin, Providence University University, Taiwan
Werner Verhelst, Vrije Universiteit Brussel, Belgium

C04-01, ISDA-2008-IS19-001
Color Visual Cryptography Scheme Using Meaningful Shares
Hsien-Chu Wu, Hao-Cheng Wang, and Rui-Wen Yu
Taichung Institute of Technology, Taiwan

C04-02, ISDA-2008-IS19-002
Robustness of Structure-based Watermark by Using Balanced Incomplete Block Designs
Zhi-Fang Yang and Mong-Shu Wu
Taipei University, Taiwan

C04-03, ISDA-2008-IS19-003
A High Quality Histogram Shifting Based Embedding Technique for Reversible Data Hiding
Wien Hong, Chih-Wei Shiu, and Tung-Shou Chen
Yu Da College of Business, Taiwan

C04-04, ISDA-2008-1114
Mining Region-based Movement Patterns for Energy-Efficient Object Tracking in Sensor Networks
Vincent S. Tseng, Ming-Hua Hsieh, and Kawuu W. Lin
Cheng Kung University, Taiwan

C04-05, ISDA-2008-1415
A Novel Algorithm for Completely Hiding Sensitive Association Rules
Chih-Chia Weng, Shan-Tai Chen, and Hung-Che Lo
Defense University, Taiwan

C04-06, ISDA-2008-1513
Lossless and Lossy Image Secret Sharing for Data Transmission
Fa-Xin Yu, Hao Luo, Jeng-Shyang Pan and Zhe-Ming Lu
Zhejiang University, China
A Stressed Syllable Labeling Approach using Fractal Dimensions
Qing-Cai Chen, Dan-Dan Wang, and Xiao-Long Wang
Harbin Institute of Technology Shenzhen Graduate School, China

Unknown Malicious Executable Defection
Yin-Gxu Lai
Beijing University of Technology, China

A novel Algorithm for Weighted-Fair Rate Control in Wireless Sensor Network
Lufeng Mo and Yueyun Shen
Zhejiang Forestry University, China

Research on Properties of Max-Product Fuzzy Associative Memory Networks
Shui-Ling Zeng, Jing-Yu Yang, and Wei-Hong Xu
Nanjing University of Science and Technology, China

Pattern Optimization and the Application in Question Answering
Yongping Du and Ming He
Beijing University of Technology, China

A Cyclic Coding Based Perceptual Hashing Algorithm
Hui Zhang, Yanan Wang, and Xia-Mu Niu
Harbin Institute of Technology Shenzhen Graduate School, China

Control Strategy of Dynamic Leontief Input-output Model
Xiumei Wu and Lei Jiang
Shanghai Second Polytechnic University, China
Reversible Watermarking for Compressed Speech
Ming-Yu Li, Yu-Hua Jiao, and Xia-Mu Niu
Harbin Institute of Technology, China

Key-Dependent Compressed Domain Audio Hashing
Yu-Hua Jiao, Min-Gyu Li, Qiong Li, and Xia-Mu Niu
Harbin Institute of Technology, China

The Synchronous Drive System in Gantry-Moving Milling Machine Based on Dynamic Compensation and Fuzzy Control
Yis-han Gong and Na Qian
Shenyang University of Technology, China

Chattering-Free Fuzzy Sliding Mode Control Strategy for Uncertain Discrete Systems with Input Saturation
Lin-Sheng Li and Jian-Ning Li
Taiyuan University of Science and Technology, China

Solving Bilevel Toll Assignment Problem by Penalty Function Algorithm
Vyacheslav V. Kalashnikov, Nataliya I. Kalashnykova, and José Fernando Camacho Vallejo
ITESM, Campus Monterrey, Mexico

Inexact Newton Algorithm to Solve Nonlinear Complementarity Problems
Nataliya I. Kalashnykova, Vyacheslav V. Kalashnikov, and Aarón Arévalo Franco
Autonomous University of Nuevo León (UANL), Mexico

Liberalization of Mexican Electricity Market: Various Modeling Approaches with Numerical Simulation Results
Vitaly V. Kalashnikov, Nataliya I. Kalashnykova, Felipe de Jesús Castillo Pérez, Armando César Uranga Sifuentes, and Claudia Mayela Avila Garza
FICA UJED, Gómez Palacio, Mexico
C06

E-Commerce Security
Wei-Bin Lee, Feng Chia University, Taiwan
Shusaku Tsumoto, Shimane University, Japan

C06-01, ISDA-2008-IS03-004
Efficient Authentication Schemes for Handover in Mobile WiMAX
Hung-Min Sun, Shih-Ying Chang, Yue-Hsun Lin, and Shin-Yan Chiou
Tsing Hua University, Taiwan

C06-02, ISDA-2008-IS17-004
The Essential Design Principles of Verifiable Non-Interactive OT Protocols
Ya-Fen Chang and Wei-Cheng Shiao
Taichung Institute of Technology, Taiwan

C06-03, ISDA-2008-IS17-005
An Exchangeable E-Cash Scheme by E-mint
Jung-Wen Lo, Min-Shiang Hwang, and Yen-Ping Chu
Chung Hsing University, Taiwan

C06-04, ISDA-2008-IS17-006
Multiple-Image Encryption by Rotating Random Grids
Tzung-Her Chen, Kai-Hsiang Tsao, and Kuo-Chen Wei
Chiayi University, Taiwan

C06-05, ISDA-2008-IS25-007
Hospital Management based on Data Mining
Shusaku Tsumoto and Shoji Hirano
Shimane University, Japan

C06-06, ISDA-2008-1105
Efficient Mining of Frequent Closed Itemsets without Closure Checking
Chih-Hsien Lee, Don-Lin Yang, Jungpin Wu, Kuo-Cheng Yin
Feng Chia University, Taiwan

C06-07, ISDA-2008-1156
An Efficient Approximate Approach to Mining Frequent Itemsets Over High Speed Transactional Data Streams
Kuen-Fang Je, Chao-Wei Li, and Tsui-Ping Chang
Chung-Hsing University, Taiwan
C07

Intelligent Adaptive System (II)
Siti Shamsuddin, Universiti Teknologi Malaysia, Malaysia
Siti Zaiton Mohd Hashim, Universiti Teknologi Malaysia, Malaysia

C07-01, ISDA-2008-WS07-0258
Constructing Intelligent Living Space Controlling System with Bluetooth and Speech-Recognition Microprocessor
Chun-Liang Hsu and Sheng-Yuan Yang
St. John’s University, Taiwan

C07-02, ISDA-2008-WS07-0512
Bounded PSO Vmax Function in Neural Network Learning
Y.S. Lee, S.M. Shamsuddin, and H.N Hamed
University Technology Malaysia, Malaysia

C07-03, ISDA-2008-WS07-0525
Rough Set Granularity in Mobile Web Pre-Caching
Sarina Sulaiman, Siti Mariyam Shamsuddin, Ajith Abraham, and Shahida Sulaiman
Universiti Teknologi Malaysia, Malaysia

C07-04, ISDA-2008-WS07-0535
Application of Polynomial Neural Networks to Exchange Rate Forecasting
R. Ghazali, A. J. Hussain, and M. N. Mohd. Salleh
Universiti Tun Hussein Onn Malaysia, Malaysia

C07-05, ISDA-2008-WS07-0543
FPGA-Realization of Adaptive Fuzzy Controller for the Linear X-Y Table
Ying-Shieh Kung, Le-Thi Van Anh, and Shin-Hung Jou
Southern Taiwan University, Taiwan

C07-06, ISDA-2008-WS07-0552
Performance Comparison of ADRS and PCA as a Preprocessor to ANN for Data Mining
Nicholas Navaroli, David Turner, Arturo I Concepcion, and Robert S Lynch
Engineering California State University, USA

C07-07, ISDA-2008-0290
A New Support Vector Machine with Fuzzy Hyper-plane and Its Application to Evaluate Credit Risk
Pei-Yi Hao, Min-Shiu Lin, and Lung-Biao Tsai
Kaohsiung University of Applied Sciences, Taiwan

C07-08, ISDA-2008-1431
The Self-Organizing Map applying the "Survival of the Fittest Type" Learning Algorithm
Junko Shibata, Koji Okuhara Shogo Shioide, and Hiroaki Ishii
Kobe Gakuin University, Japan

C07-09, ISDA-2008-1532
Microcomputer Based Smart Engine Ignition Control System for Motorcycles
Ching-Biau Tzeng, Tzuu-Shaang Wey, and Tsung-Yu Su
Kun Shan University, Taiwan

C07-10, ISDA-2008-1037
Fuzzy Crashing Problem on Project management Based on Confidence-Interval Estimates
Feng-Tse Lin
Chinese Culture University, Taiwan
C08

*Intelligent Video Processing*

Chao-Ho (Thou-Ho) Chen, Kaohsiung University of Applied Sciences, Taiwan
Fumiaki Takeda, Kochi University of Technology, Japan

C08-01, ISDA-2008-IS24-001

*Face Recognition Based on Digital Curvelet Transform*

Yi-Chun Lee and Chin-Hsing Chen
Cheng Kung University, Taiwan

C08-02, ISDA-2008-IS24-002

*Subpixel Edge Location Using Orthogonal Fourier-Mellin Moments Based Edge Location Error Compensation Model*

Wen-Chia Lee and Chin-Hsing Chen
Cheng Kung University, Taiwan

C08-03, ISDA-2008-IS24-003

*A Watermarking Method for Still Images Using Modified Code Division Multiple Access*

Ji-Hong Chen, Chin-Hsing Chen, and Wen-Yuan Chen
Cheng Kung University, Taiwan

C08-04, ISDA-2008-IS24-004

*A Fast and Stable Superresolution Reconstruction Method for Compressed Video Sequences*

Hsi-Kuan Chen, Chin-Hsing Chen, and Shih-Jen Wang
Cheng Kung University, Taiwan

C08-05, ISDA-2008-0106

*A New Multi Criteria Aid Model for Process Piloting using Case-Based Reasoning*

Dhouib Diala, Addouche Sid-Ali, Elmhamedi Abderahman, and Chabchoub Habib
Institut Supérieur de Gestion Industrielle de Sfax, France

C08-06, ISDA-2008-1028

*An Edge-Recovery-based Error Concealment Method for Video*

Ji-Feng Sun, Wen-Kai Huang, and Zhi-Yong Zhang
South China University of Technology, China
Development of a Portable Automatic Inspection System for Printed Labels Using a Web Camera

Yuhki Shiraishi and Fumiaki Takeda
Kochi University of Technology, Japan
C09

Intelligent Watermarking Techniques, Image Authentication And Visual Cryptography
Chia-Chen Lin, Providence University University, Taiwan
David Powers, Flinders University of South Australia, Australia

C09-01, ISDA-2008-1684
Suffix Tree Based Approach for Chinese Information Retrieval
Jin-Hu Huang and David Powers
Flinders University of South Australia, Australia

C09-02, ISDA-2008-IS19-004
Efficient Image Recovery Based on Self-Embedding
Yuan-Liang Tang, Chin-Feng Lee, and Huai-En Lee
Chaoyang University of Technology, Taiwan

C09-03, ISDA-2008-IS19-005
Tamper Detection of Relational Database Based on SVR Predictive Difference
Hsien-Chu Wu, Fang-Yu Hsu, and Hwang-Yu Chen
Taichung Institute of Technology, Taiwan

C09-04, ISDA-2008-IS19-006
A Blind Associative Watermarking Technique using Self-Embedding
Chin-Feng Lee and Tsung-Chia Yang
Chaoyang University of Technology, Taiwan

C09-05, ISDA-2008-0890
Optimal Tuning of Pi Speed Controller Using Nature Inspired Heuristics
Millie Pant, Radha Thangaraj, and Ajith Abraham
Indian Institute of Technology Roorkee, India

C09-06, ISDA-2008-1420
A Novel Anti-Data Mining Technique Based On Hierarchical Anti-Clustering (HAC)
Tung-Shou Chen, Jeanne Chen, Yuan-Hung Kao, and Tsang-Chou Hsieh
Taichung Institute of Technology, Taiwan

C09-07, ISDA-2008-1517
Robust and Progressive Color Image Visual Secret Sharing Cooperated with Data
Hiding
Hao Luo, Fa-Xin Yu, Jeng-Shyang Pan, and Zhe-Ming Lu
Zhejiang University, China

C09-08, ISDA-2008-IS20-003
Secret Sharing Scheme with Non-Expansible Shadow Size for Color Images
Chia-Chen Lin and Wen-Xiu Zhang
Providence University, Taiwan
C10

Poster Session (V)

P05-01, ISDA-2008-IS12-006
Research on Access Control Based on Certainty Factor
Rong-Yu He, Jian-Chun Yin, and Chao-Wen Chang
Xi’an Jiaotong University, China

P05-02, ISDA-2008-IS21-001
Generation of Permutations Based Upon Factorial Numbers
Alexei A. Borisenko, Igor A. Kulik, and O. E. Goryachev
Sumy State University, Ukraine

P05-03, ISDA-2008-0134
A Fuzzy Temporal Model and Query Language for FTER Databases
Liguo Deng, Zhi-Heng Liang, and Yong Zhang
Shenyang Normal University, Shenyang, China

P05-04, ISDA-2008-0569
E-business Social Network Optimization and Visualization
Siti Nurkhadijah Aishah Ibrahim, Ali Selamat, and Mohd Hafiz Selamat
Universiti Teknologi Malaysia, Malaysia

P05-05, ISDA-2008-0639
Research on the Architecture of Policy-based Satellite Network Management
Wen-Bo Zhang, Ye Xu, and Yue-Qiu Jiang
Shenyang Ligong University, China

P05-06, ISDA-2008-0799
A Fieldbus Comprehensive Evaluation and Selection Method Based on Entropy-Ideal Point
Wei-Ming Tong and Hong-Wei Gao
Harbin institute of Technology, China

P05-07, ISDA-2008-1022
Shape-based Trademark Retrieval using Cosine Distance Method
Bei-Ji Zou and Marie Providence Umugwaneza
Central South University, China
P05-08, ISDA-2008-1209
LMSS: A Location-based Multimedia Service System Using Wireless Networks
Yiqiang Chen, Juan Qi, and Zhuo Sun
Chinese Academy of Sciences, China

P05-09, ISDA-2008-1272
Frequency Spectrum Prediction Method Based on EMD and SVR
Chang-Jun Yu, Yuan-Yuan He, and Tai-Fan Quan
Harbin Institute of Technology, China

P05-10, ISDA-2008-1568
Context and Learning based Approach to Programming of Intelligent Equipment
Andrey V. Gavrilov
Novosibirsk State Technical University, Russia

P05-11, ISDA-2008-1623
A New Iterative Learning Controller for Electro-Pneumatic Servo System
Shao-Juan Yu, Jin-Cai Bai, Shi-Bo Xiong, and Ru-Cheng Han
Taiyuan University of Technology, China

P05-12, ISDA-2008-1691
Enhanced Self-Adaptive Search Capability Particle Swarm Optimization
Juan Hu, Lai-Hang Yu, and Kai-Qi Zou
Dalian University, China
C11

E-Commerce Security
Wei-Bin Lee, Feng Chia University, Taiwan
Aboul Ella Hassanien, College of Business Administration, Kuwait

C11-01, ISDA-2008-0703
A Novel Shape-Texture Approach to Palmprint Detection and Identification
Michał Chora`s, Rafał Kozik, and Aleksandra Zelek
University of Technology & Life Sciences, Poland

C11-02, ISDA-2008-IS20-007
Complete Double Layered Embedding Scheme for Information Hiding
Chin-Feng Lee, Jau-Ji Shen, and Hung-Lin Chao
Chaoyang University of Technology, Taiwan

C11-03, ISDA-2008-IS17-009
Multi-Recastable E-Bidding Scheme
Chun-I Fan, Chien-Nan Wu, and Wei-Zhe Sun
Sun Yat-sen University, Taiwan

C11-04, ISDA-2008-0333
An Efficiently Online/Offline Signcryption for Firewall
Dai-Rui Lin, Chih-I Wang, and D.J. Guan
Sun Yat-sen University, Taiwan

C11-05, ISDA-2008-1140
The 2D Bar-Code Technology Applications in Medical Information Management
Yao-Lung Yeh, Jing-Cyun You, and Gwo-Jia Jong
Kaohsiung University of Applied Sciences, Taiwan

C11-06, ISDA-2008-1674
Cultural-Based Genetic Algorithm: Design and Real World Applications
Mostafa A. El-Hosseini, Aboul Ella Hassanien, Ajith Abraham, and Hameed Al-Qaheri
Norwegian University of Science and Technology, Norway

C11-07, ISDA-2008-1734
Improvement of SCTP Performance in Vertical Handover
C12
Digital Crime and Forensics
Der-Chyuan Lou, Defense University, Taiwan
Chia-Long Wu, Air Force Institute of Technology, Taiwan

C12-01, ISDA-2008-IS14-005
Model of Approach and Determination of the Failure Pertaining to School
Katia Bortoleto and Silvio Bortoleto
Positivo Universisity, Brazil

C12-02, ISDA-2008-IS14-006
KDD on IVR Navigation Trees: Case Study
Thiago T. Angélico, Thais Santos Bueno, Silvio Bortoleto, and Anderson Ravanello
Positivo Unioversity, Brazil

C12-03, ISDA-2008-IS20-005
A Block-based Authentication Watermarking Technique for Binary Images
Hsien-Chu Wu, Yu-Chi Liu, Kuo-Ching Liu, and Chwei-Shyong Tsai
Taichung Institute of Technology, Taiwan

C12-04, ISDA-2008-IS20-006
An Image Steganographic Scheme Based on Support Vector Regression
Hsien-Chu Wu, Kuo-Ching Liu, Jun-Dong Chang, and Ching-Hui Huang
Taichung Institute of Technology, Taiwan

C12-05, ISDA-2008-IS17-008
Fast Modular Multiplication for E-Commerce Cryptosystem
Chia-Long Wu, Der-Chyuan Lou, and Te-Jen Chang
Air Force Institute of Technology, Taiwan

C12-06, ISDA-2008-IS19-007
A Lossless Secret Image Sharing Method
Hao-Kuan Tso, Der-Chyuan Lou, Kai-Ping Wang, and Chiang-Lung Liu
Army Academy R.O.C., Taiwan
C13

Intelligent Video Processing
Chao-Ho (Thou-Ho) Chen, Kaohsiung University of Applied Sciences, Taiwan
Xueying Zhang, Taiyuan University of Technology, China

C13-01, ISDA-2008-IS24-005
Video Stabilization by Feature-Block Motion Estimation
Chao-Ho (Thou-Ho) Chen, Che-Wei Hsu, and Chin-Hsing Chen
Kaohsiung University of Applied Sciences, Taiwan

C13-02, ISDA-2008-IS24-006
The Study on Video Enhancement in the Low-Light Environment by Spatio-Temporal Filtering
Tsong-Yi Chen, Thou-Ho (Chao-Ho) Chen, Che-Ping Su, and Yi-Jun Chen
Kaohsiung University of Applied Sciences, Taiwan

C13-03, ISDA-2008-IS24-007
People Counting System for Getting In/Out of a Bus Based on Video Processing
Chao-Ho (Thou-Ho) Chen, Yin-Chan Chang, Tsong-Yi Chen, and Da-Jinn Wang
Kaohsiung University of Applied Sciences, Taiwan

C13-04, ISDA-2008-0926
An Actor-Based Video Segmentation System Using Visual and Audio Information in E-Learning
Yi-Chun Liao and Ming-Hong Syu
China University of Technology, Taiwan

C13-05, ISDA-2008-1120
Prediction Filling Differences for Compress a set of HDR Images
Jeanne Chen, Tung-Shou Chen, and Ping-Feng Chen
Taichung Institute of Technology, Taiwan

C13-06, ISDA-2008-1546
Building a Flexible Energy Management System with LonWorks Control Network
Ching-Biau Tzeng, Tzuu-Shaang Wey, and Sheng-Hsiung Ma
Kun Shan University, Taiwan

C13-07, ISDA-2008-1660
Applying the Extended Classifier System to Trade Interest Rate Futures Based on Technical Analysis
An-Pin Chen, Yu-Chia Hsu, Chien-Hua Huang, and Ya-Chun Yang
Chiao Tung University, Taiwan
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Intelligent Watermarking Techniques, Image Authentication and Visual Cryptography
Chia-Chen Lin, Providence University, Taiwan
Xia Li, Shenzhen University, China

C14-01, ISDA-2008-IS18-005
Bioinformatics Approach to Discover the Relationship between Single Nucleotide Polymorphisms and Tumors
Fang-Rong Hsu and Wen-Chun Lo
Feng Chia University, Taiwan

C14-02, ISDA-2008-IS19-008
Non-embedded Image Protection Approaches Based on Vector Quantization
Cheng-Hsing Yang, Shu-Chien Huang, Cheng-Ta Huang, and Shiuh-Jeng Wang
Pingtung University of Education, Taiwan

C14-03, ISDA-2008-IS19-009
The Technique of Information Hiding based on Modification Function and LSB Matching
Tzu-Chuen Lu and Li-Ling Hsu
Chaoyang University of Technology, Taiwan

C14-04, ISDA-2008-IS19-010
Lossless Data Hiding for Color Images
Ching-Hui Huang, Chih-Chiang Lee, Hsien-Chu Wu, and Chung-Ming Wang
Chung Hsing University, Taiwan

C14-05, ISDA-2008-IS17-007
A Mobile Trading Scheme for Digital Content Based on Digital Rights
Chia-Chen Lin and Po-Hsuan Chiang
Providence University, Taiwan

C14-06, ISDA-2008-1502
A Novel Image Annotation Scheme Based on Neural Network
Yufeng Zhao, Yao Zhao, Zhenfeng Zhu, and Jeng-Shyang Pan
Beijing Jiaotong University, China
C14-07, ISDA-2008-0414
Design of Proxy Signature in ECDSA
Ming-Hsin Chang, I-Te Chen and Ming-Te Chen
Chunghwa Telecom Co., Ltd. Telecommunication Laboratories, Taiwan

C14-08, ISDA-2008-0839
A Lock-based Protocol for XML Metadata Knowledge Bases
Kuen-Fang Jea and Tsui-Ping Chang
Chung-Hsing University, Taiwan
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P06-01, ISDA-2008-IS12-011
Video Content Authentication Technique Based on Invariant Feature Detection and Cloud Watermark
Chang-Yin Liang, Hao Wu, and Ang Li
Shenzhen Polytechnic, China

P06-02, ISDA-2008-WS01-0141
A Method of Pulmonary Nodules Detection with Support Vector Machines
Lu Liu and Wan-Yu Liu
Harbin Institute of Technology, China

P06-03, ISDA-2008-WS01-0782
A Novel Algorithm for Ultrasonic Stereovision Data Enhancement
Lu Liu and Wan-Yu Liu
Harbin Institute of Technology, China

P06-04, ISDA-2008-0128
A Video Similarity Matching Algorithm Supporting for Different Time Scales
Zhi-Pin Deng and Ke-Bin Jia
Beijing University of Technology, China

P06-05, ISDA-2008-0191
Adaptive Image Hiding Algorithm Based on Classification
Sheng-Bing Che, Qiang-Bo Huang, and Bin Ma
Central South University of Forestry & Technology, China

P06-06, ISDA-2008-0237
A fast mode decision scheme with variable block sizes in H.264/AVC
Peng-Yu Liu and Ke-Bin Jia
Beijing University of Technology, China

P06-07, ISDA-2008-0347
NGN Service Pricing Support Decision System Based on Fuzzy Neural Network: NPDSS
Jin-Yu Zhang and Man-Gui Liang
P06-08, ISDA-2008-1215
Mesh-based In-band Motion Estimation Method
Chen-Wei Deng and Bao-Jun Zhao
Beijing Institute of Technology, China

P06-09, ISDA-2008-1580
Human Action Retrieval via Spatio-temporal Cuboids
Qingshan Luo and Guihua Zeng
Shanghai Jiaotong University, China

P06-10, ISDA-2008-1616
FPGA Realization of Activation Function for Artificial Neural Networks
Venakata Saichand, Nirmala Devi. M, Arumugam. S, and N. Mohankumar
Amrita Vishwa Vidyapeetham, India

P06-11, ISDA-2008-1619
Efficient Scalable Distributed Video Coding Based on Residual SW-SPIHT
Anhong Wang, Yao Zhao, and Jeng-Shyang Pan
Beijing Jiaotong University, China

P06-12, ISDA-2008-1715
Study on X-VRML-Based Modelling of Virtual Museum
Shengnan Zhang, Limin Song, and Lian-Qiang Niu
Shenyang University of Technology, China

P06-13, ISDA-2008-0930
A Weight Method of Decoding the Binary BCH Code
I-Shou University, Taiwan