

# Conference Schedule

August 12, 2009					
08:30   09:20	Opening <b>Main Hall (II) (in Intercontinental Hotel)</b>				
09:20   10:20	Plenary Speech I <b>Main Hall (II) (in Intercontinental Hotel)</b>				
10:20   10:40	Break				
10:40   11:40	Plenary Speech II <b>Main Hall (II) (in Intercontinental Hotel)</b>				
11:40   13:15	Lunch <b>Main Hall (II) (in Intercontinental Hotel)</b>				
13:15   15:15	Session A01 : IP Communication  <b>Main Hall (II)</b>	Session A02 : Agent-based User Interface Design and Applications  <b>Session Room 3</b>	Session A03 : Intelligent Services and Applications of Web Search Engine  <b>Session Room 4</b>	Session P01 : Poster Session (1)  <b>Session Room 5</b>	Session P02 : Poster Session (2)  <b>Session Room 6</b>
15:15   15:40	Coffee Break				
15:40   17:40	Session A04 : Agents on Networked Media and its Applications  <b>Main Hall (II)</b>	Session A05 : Soft Computing and Their Application to Multimedia  <b>Session Room 3</b>	Session A06 : Semantic technologies and Knowledge reasoning  <b>Session Room 4</b>	Session P03 : Poster Session (3)  <b>Session Room 5</b>	Session P04 : Poster Session (4)  <b>Session Room 6</b>
17:40   20:00	Dinner <b>Restaurant (in Intercontinental Hotel)</b>				

August 13, 2009						
08:30   09:30	Plenary Speech III Main Hall (II) (in Intercontinental Hotel)					
09:30   09:50	Coffee Break					
09:50   11:50	Plenary Speech IV Main Hall (II) (in Intercontinental Hotel)					
11:50   13:20	Lunch Restaurant (in Intercontinental Hotel)					
13:20   15:20	Session B01 : Computational Modeling of Complex Systems	Session B02 : Kernel Learning, Cluster Analysis, and its Applications	Session B03 : Recent Advances on Swarm Intelligence (1)	Session P09 : Poster Session (9)	Session P05 : Poster Session (5)	Session P06 : Poster Session (6)
	Session Room 1	Session Room 2	Session Room 3	Session Room 4	Session Room 5	Session Room 6
15:20   15:40	Coffee Break					
15:40   17:40	Session B04 : Recent Advances on Swarm Intelligence (2)	Session B05 : Innovative Computing for Image Analysis (1)	Session B06 : Intelligent computing for control and application	Session B07 : Theories and Applications for Wireless Sensor Networks	Session P07 : Poster Session (7)	Session P08 : Poster Session (8)
	Session Room 1	Session Room 2	Session Room 3	Session Room 4	Session Room 5	Session Room 6
17:40   20:00	Conference Banquet Restaurant (in Intercontinental Hotel)					

August 14, 2009						
08:30   10:20	Session C01 : Novel Approaches to Pervasive Applications	Session C02 : Information Management & Knowledge Management (1)	Session C03 : Theories and Applications for Peer-to-Peer Overlay Networks (1)	Session C04 : Novel Approaches to Information Security Application (1)	Session C17 : Innovative Computing for Image Analysis (2)	Session P10 : Poster Session (10)
	Session Room 1	Session Room 2	Session Room 3	Session Room 4	Session Room 5	Session Room 6
10:20   10:30	Coffee Break					
10:30   12:20	Session C05 : Soft Computing to Industrial Management & Applications	Session C06 : Theories and Applications for Peer-to-Peer Overlay Networks (2)	Session C07 : Novel Approaches to Information Security Application (2)	Session C08 : Information Management & Knowledge Management (2)	Session P11 : Poster Session (11)	Session P12 : Poster Session (12)
	Session Room 1	Session Room 2	Session Room 3	Session Room 4	Session Room 5	Session Room 6
12:20   13:30	Lunch Restaurant (in Intercontinental Hotel)					
13:30   15:30	Session C09 : Theories and Applications for Peer-to-Peer Overlay Networks (3)	Session C10 : Information Management & Knowledge Management (3)	Session C11 : Design and Implementation of Control Systems	Session C12 : Advanced Data Processing Technology	Session P13 : Poster Session (13)	Session P14 : Poster Session (14)
	Session Room 1	Session Room 2	Session Room 3	Session Room 4	Session Room 5	Session Room 6
15:30   15:50	Coffee Break					
15:50   17:50	Session C13 : Information Management & Knowledge Management (4)	Session C14 : Hybrid Intelligent Techniques for Power, Control and Communication	Session C15 : Soft Computing for Image and Signal Processing	Session C16 : Cross-discipline Techniques	Session P15 : Poster Session (15)	Session P16 : Poster Session (16)
	Session Room 1	Session Room 2	Session Room 3	Session Room 4	Session Room 5	Session Room 6
17:50   20:00	Dinner Restaurant (in Intercontinental Hotel)					



## Ninth International Conference on Hybrid Intelligent Systems

August 12-14, Shenyang, China  
<http://bit.kuas.edu.tw/~his09/>

# Conference Program

August 11, 2009	
Registration (Holiday Inn Hotel )	08:00-17:30

August 12, 2009	
Registration	08:00-17:30
Opening	08:30-09:20
Plenary Speech I	09:20-10:20
Break	10:20-10:40
Plenary Speech II	10:40-11:40
Lunch	11:40-13:15
Session A01~A03	13:15-15:15
Poster Session P01~P02	13:15-15:15
Coffee Break	15:15-15:40
Session A04~A06	15:40-17:40
Poster Session P03~P04	15:40-17:40
Dinner	17:40-20:00

August 13, 2009	
Registration	08:00-17:30
Plenary Speech III	08:30-09:30
Coffee Break	09:30-09:50
Plenary Speech IV	09:50-11:50
Lunch	11:50-13:20
Session B01~B03	13:20-15:20
Poster Session P09,P05~P06	13:20-15:20
Coffee Break	15:20-15:40
Session B04~A07	15:40-17:40
Poster Session P07~P08	15:40-17:40
Conference Banquet	17:40-20:00

August 14, 2009	
Registration	08:00-17:30
Session C01~C04,C17	08:30-10:20
Poster Session P10	08:30-10:20

Coffee Break	10:20-10:30
Session C05~C08	10:30-12:20
Poster Session P11~P12	10:30-12:20
Lunch	12:20-13:30
Session C09~C12	13:30-15:30
Poster Session P13~P14	13:30-15:30
Coffee Break	15:30-15:50
Session C13~C16	15:50-17:50
Poster Session P16~P17	15:50-17:50
Dinner	17:50-20:00

# Session List

## August 12, 2009, 13:30-15:15

- A01 : IP Communication
- A02 : Agent-based User Interface Design and Applications
- A03 : Intelligent Services and Applications of Web Search Engine
- P01 : Poster Session (1)
- P02 : Poster Session (2)

## August 12, 2009, 15:40-17:25

- A04 : Agents on Networked Media and its Applications
- A05 : Soft Computing and Their Application to Multimedia
- A06 : Semantic technologies and Knowledge reasoning
- P03 : Poster Session (3)
- P04 : Poster Session (4)

## August 13, 2009, 13:30-15:15

- B01 : Computational Modeling of Complex Systems
- B02 : Kernel Learning, Cluster Analysis, and its Applications
- B03 : Recent Advances on Swarm Intelligence (1)
- P09 : Poster Session (9)
- P05 : Poster Session (5)
- P06 : Poster Session (6)

## August 13, 2009, 15:40-17:25

- B04 : Recent Advances on Swarm Intelligence (2)
- B05 : Innovative Computing for Image Analysis (1)
- B06 : Intelligent computing for control and application
- B07 : Theories and Applications for Wireless Sensor Networks
- P07 : Poster Session (7)
- P08 : Poster Session (8)

## August 14, 2009, 08:30-09:30

- C01 : Novel Approaches to Pervasive Applications
- C02 : Information Management & Knowledge Management (1)
- C03 : Theories and Applications for Peer-to-Peer Overlay Networks (1)
- C04 : Novel Approaches to Information Security Application (1)
- C17 : Innovative Computing for Image Analysis (2)
- P10 : Poster Session (10)

## August 14, 2009, 09:50-11:30

- C05 : Soft Computing to Industrial Management & Applications
- C06 : Theories and Applications for Peer-to-Peer Overlay Networks (2)
- C07 : Novel Approaches to Information Security Application (2)

**C08 : Information Management & Knowledge Management (2)**

**P11 : Poster Session (11)**

**P12 : Poster Session (12)**

**August 14, 2009, 13:30-15:15**

**C09 : Theories and Applications for Peer-to-Peer Overlay Networks (3)**

**C10 : Information Management & Knowledge Management (3)**

**C11 : Design and Implementation of Control Systems**

**C12 : Advanced Data Processing Technology**

**P13 : Poster Session (13)**

**P14 : Poster Session (14)**

**August 14, 2009, 15:40-17:25**

**C13 : Information Management & Knowledge Management (4)**

**C14 : Hybrid Intelligent Techniques for Power, Control and Communication**

**C15 : Soft Computing for Image and Signal Processing**

**C16 : Cross-discipline Techniques**

**P15 : Poster Session (15)**

**P16 : Poster Session (16)**

A01

IP Communication

Prof. Wei-Min Lei, Chinese Academy of Sciences, China

Prof. Xiao-Ming Liu, Beijing Institute of Technology, China

A01-01, HIS-2009-IS23-01

***Application of Dynamic Port VLAN Membership with Auxiliary VLAN in Campus Area Network***

Ning Jiang, Lian-Cheng Shan, and Jing Zhao

Shenyang Normal University, China

A01-02, HIS-2009-IS23-02

***The Design of IMS based Video Surveillance System***

Jing-Hua Lin, Wei-Min Lei, and Yong Liu

Shenyang Institute of Computing Technology, China

A01-03, HIS-2009-IS23-03

***An Extended Data Collaboration Mechanism for XCON Multimedia Conference***

Wei Zhang, Wei-Min Lei, and Hong-Bin Li

University of Science and Technology of China, China

A01-04, HIS-2009-501

***Research on Topic Relevancy of Sentences Based on HowNet Semantic Computation***

Jin-Zhong Xu, Jie Liu, and Xiao-Ming Liu

Beijing Institute of Technology, China

A01-05, HIS-2009-658

***Application of IP Multicast technology in computer laboratory teaching system***

Bi-Jing, Song-Kai, and Li-Hang

ShenYang Normal University, China

A01-06, HIS-2009-693

***Event Based Semantic Location Model in Cooperative Mobile Computing***

Zheng-Yong Zhang, Jing Yang, Junz-Hong Gu, and Ying-Chen Xu

East China Normal University, China

## A02

### Agent-based User Interface Design and Applications

Prof. Ming-Che Hsieh, National Taitung University, Taiwan

Prof. Kuo-Liang Ou, National Hsin-Chu University of Education, Taiwan

A02-01, HIS-2009-IS02-01

#### ***Developing an IDML-based Embodied Pedagogical Agent System for Multimedia Learning***

Kai-Yi Chin, Jim-Min Lin, Zeng-Wei Hong, Kun-Ta Lin, and Wei-Tsong Lee  
Feng Chia University, Taiwan

A02-02, HIS-2009-IS02-03

#### ***A Machine Learning Approach for Analyzing Musical Expressions of Piano Performance***

Kuo-Liang Ou, Pao-Te Tsai, and Wern-Huar Tarng  
National Hsin-Chu University of Education, Taiwan

A02-03, HIS-2009-IS02-04

#### ***MDA-based UI Modeling and Transformation of Spoken Dialog Systems***

Sheng-Shi Lin, Shin-Shing Shin, Ming-Che Hsieh, Jen-Her Wu, and Wei-Sheng Hung  
National Taitung University, Taiwan

A02-04, HIS-2009-325

#### ***Research on Intelligent CAPP System Based on Multi-Agent System***

Zhong-Bin Wang, Chao Tan, Qing Li, and Yuliu Chen  
China University of Mining and Technology, China

A02-05, HIS-2009-IS18-10

#### ***Research on the Intelligent Control of Sintering Process Based on the Integrated Automation of Cement Enterprise***

Hong-Liang Yu, Xiao-Hong Wang, and Zhu-Gang Yuan  
University of Jinan, China

A02-06, HIS-2009-433

#### ***Visualization User Interface for Decision Support Systems***

Shi-Dong Yu, Li-Guo Deng, and Yong Zhang  
Shenyang Normal University, China

A02-07, HIS-2009-IS02-05

#### ***Designing an Assistive Dialog Agent for a Case of Spinal Cord Injury***

Ming-Che Hsieh, Wei-Sheng Hung, Shu-Wen Lin, and Chin-Hsing Luo  
National Taitung University, Taiwan

## A03

### Intelligent Services and Applications of Web Search Engine

Prof. Gui-Ran Chang, Northeastern University, China

Prof. Jui-Fang Chang, National Kaohsiung University of Applied Sciences, Taiwan

A03-01, HIS-2009-IS24-07

#### ***Design and Implementation of Network Resource Management System Based on SNMP***

Fu-Xiang Gao, Lan-Tao Liu, and Miao Li

Northeastern University of China, China

A03-02, HIS-2009-IS24-10

#### ***A Cold-start Recommendation Algorithm Based on New User's Implicit Information and Multi-Attribute Rating Matrix***

Hang Yin, Gui-Ran Chang, and Xing-Wei Wang

Northeastern University Shenyang, China

A03-03, HIS-2009-426

#### ***Research and Design of Task Driven Based Web Report Model***

Chuan-Shen Zhou, and Lin Lin

Shenyang Normal University, China

A03-04, HIS-2009-699

#### ***The Evaluation of the Incomplete Linguistic Preference Relations on the performance of Web shops***

Tien-Chin Wang, Shu-Chen Hsu, Shu-Chen Peng, and Jui-Fang Chang

National Kaohsiung University of Applied Sciences, Taiwan

A03-05, HIS-2009-795

#### ***Research on Service-Oriented Workflow Management System Architecture***

Yong-Yi Zhao, You-Jie Feng, and Hui Liu

Shenyang Normal University, China

A03-06, HIS-2009-631

#### ***An E-learning System Architecture Based on Web Services and Intelligent Agents***

Xu Wei and Jun Yan

Shenyang Normal University, China

## P01

### Poster Session (1)

P01-01, HIS-2009-IS25-13

***Application Research on Machine Learning and Statistical Forecasting Algorithm in Traffic Information Forecasting System***

Yan Pei and Guang-Ming Yang  
Northeastern University, China

P01-02, HIS-2009-637

***Applying Genetic Algorithm to Optimization Parameters of Missile Control System***

Su-Peng Zhu, Wen-Xing Fu, Jun Yang, and Jian-Jun Luo  
Northwestern Polytechnical University, China

P01-03, HIS-2009-IS09-05

***Shape-Based Level Set Method for Image Segmentation***

Chieh-Ling Huang  
Chang Jung Christian University, Taiwan

P01-04, HIS-2009-IS07-03

***A Fuzzy-Rough Hybrid Approach to Multi-document Extractive Summarization***

Hsun-Hui Huang, Horng-Chang Yang, and Yau-Hwang Kuo  
National Cheng Kung University, Taiwan

P01-05, HIS-2009-864

***A New Scan-Line Algorithm using clustering approach***

Xiao-Guang Tian, Yuke Ma, and Xiao-Rong Hou  
University of Electronic Science and Technology of China Chengdu, China

P01-06, HIS-2009-IS03-04

***Structural Equation Model for Brand Image Measurement of Jeans***

Shu-Jen Hu, Sin-Ying Jou, and Yu-Hua Liu  
University of Science and Technology, Taiwan

P01-07, HIS-2009-IS01-02

***Pseudo-coloring with Histogram Interpolation***

Cheng-Hsiung Hsieh, Chih-Ming Lin, and Fung-Jung Chang  
Chaoyang University of Technology, Taiwan

P01-08, HIS-2009-IS03-03

***The Consistency of Size Effect: Time Periods, Regression Methods, and Database Selection***

Robin K. Chou, Mei Yueh Huang, Jun Biao Lin, and Jen Tsung Hsu  
National Central University, Taiwan

## P02

### Poster Session (2)

P02-01, HIS-2009-IS21-01

***Predistortion in Optical Wireless Transmission using OFDM***

Hany Elgala, Raed Mesleh, and Harald Haas  
Jacobs University, Germany

P02-02, HIS-2009-IS26-04

***An Efficient VQ-based Data Hiding Scheme Using Voronoi Clustering***

Ming-Ni Wu, Puu-An Juang, and Yu-Chiang Li  
National Taichung Institute of Technology, Taiwan

P02-03, HIS-2009-31

***Application of LMBP Forecast Model in International Construction Claim***

Shu-Jing Zhou, Lan-Jing Liu, and ChaoWu  
Hebei University of Engineering, China

P02-04, HIS-2009-34

***Heat Load Forecasting Based on Improved AGA-BP Non-linear Combined Model  
Heuristic Factors in Ant System Algorithm for Course Timetabling Problem***

Feng Ren, Ying-Zong Liu, and Ding Chao  
Tianjin University, China

P02-05, HIS-2009-171

***The Design and Implementation of an Enhanced SIP ALG to support MSRP sessions***

Hai-Bo Yang, Hu Lin, Jin Li, and Wei-Min Lei  
University of the CAS, China

P02-06, HIS-2009-201

***The Study of CONN-PID Hybrid Controller***

Wen-Zhao Yu  
Huazhong University of Science and Technology, China

P02-07, HIS-2009-272

***Design and Implementation of Interface Interactivity Based on Virtools and Serial Communication***

Ying-Yan Teng, Xiao-Wei Wang, and Zong-Gang He  
Institute of Information Dalian, China

P02-08, HIS-2009-1011

***Hyperbolic Tangent HNN Multiuser Detection in DS-UWB Systems***

Chia-Hsin Cheng, Guo-Jun Wen, Ling-Cheng Hsu, and Yung-Fa Huang  
National Formosa University of Technology, Taiwan

## A04

### Agents on Networked Media and its Applications

Prof. Tain-Chi Lu, National Chiayi University, Taiwan

Prof. Huang-Cheng Kuo, National Chiayi University, Taiwan

A04-01, HIS-2009-IS06-01

#### ***A Rate Adaptation Scheme with Loss Differentiation for WLAN***

Haoli Wang, and Chung-Chi Tsou

National Chiayi University, Taiwan

A04-02, HIS-2009-IS06-02

#### ***A New RFID Authentication Protocol with Ownership Transfer in an Insecure Communication Environment***

Chih-Hung Wang, and Shan Chin

National Chiayi University, Taiwan

A04-03, HIS-2009-IS06-03

#### ***Finding Time-delayed Gene Regulation Patterns from Microarray Data***

Huang-Cheng Kuo, Pei-Cheng Tsai, and Jen-Peng Huang

National Chiayi University, Taiwan

A04-04, HIS-2009-IS06-04

#### ***The Lower Hops Selection Scheme for Constructing the Multihoming NEMO***

Long-Sheng Li, Jhu-Shyuan Mei, Yao-Hui Tsai, and Gwo-Chuan Lee

National Chiayi University, Taiwan

A04-05, HIS-2009-IS06-05

#### ***MOG Platform using Mobile Agents for Resource Transactions***

Jin-Hung Ke, Yuchieh Kao, and Tainchi Lu

National Chiayi University, Taiwan

A04-06, HIS-2009-860

#### ***The Patching Methods of the Bayesian Network Data***

Yis-Han Gong, and Jia Hao

Shenyang University of Technology, China

A04-07, HIS-2009-976

#### ***Sentence Features Fusion for Text Summarization Using Fuzzy Logic***

Ladda Suanmali, Mohammed Salem Binwahlan, and Naomie Salim

Suan Dusit Rajabhat University, Thailand

## A05

### Soft Computing and Their Application to Multimedia

Dr. Ming-Huwi Horng, National Pingtung Institute of Commerce, Taiwan

Dr. Horng-Chang Yang, National Taitung University, Taiwan

A05-01, HIS-2009-IS07-02

#### ***Multi-level Thresholding Selection by Using the Honey Bee Mating Optimization***

Ren-Jean Liou, Ming-Huwi Horng, and Ting-Wei Jiang

A05-02, HIS-2009-541

#### ***Image Fusion Algorithm Using Pyramidal Empirical Mode Decomposition***

Hui Li, and You-Zhi Zheng

Shenyang Normal University, China

A05-03, HIS-2009-677

#### ***Prediction of O-linked Glycosylation Sites in Protein Sequence by PCA-LDA***

Xue-Mei Yang

Xianyang Normal University, China

A05-04, HIS-2009-953

#### ***Simulative Performance Analysis of Resilient Packet Ring in Protection Modes***

Wen-Fong Wang and Ching-Sung Lu

National Yunlin University of Science & Technology, Taiwan

Tajen University, Taiwan

A05-05, HIS-2009-IS07-04

#### ***Honey Bee Mating Optimization Scheme for Active Contour Model***

Ming-Huwi Horng, Jin-Yi Chen, and Ren-Jean Liou

A05-06, HIS-2009-961

#### ***News Summarization Based on Semantic Similarity Measure***

Hui Yu

China University of Petroleum, China

A05-07, HIS-2009-1024

#### ***A two-stage hybrid approach for feature selection in microarray analysis***

Chung-Hong Lee, Hsin-Chang Yang, Chih-Hong Wu, and Yi-Chia Lan

National Kaohsiung University of Applied Sciences, Taiwan

## A06

### Semantic technologies and Knowledge reasoning

Prof. Jong-Yih Kuo, National Taipei University of Technology, Taiwan

Prof. Chien-Chang Hsu, Fu-Jen Catholic University, Taiwan

A06-01, HIS-2009-IS11-01

#### ***Applying concept mapping on the influent learning in virtual classroom***

Rong-Chung Chen and Shu-Chen Liu

Chaoyang University of Technology, Taiwan

A06-02, HIS-2009-IS11-02

#### ***Ontology-Supported Web Recommender for Scholar Information***

Sheng-Yuan Yang and Chun-Liang Hsu

St. John's University, Taiwan

A06-03, HIS-2009-IS11-03

#### ***Towards a Multi-Agents Architecture for GQM Measurement System***

Yong-Yi Fan Jiang, and Chung-Hao Wu

Fu Jen Catholic University, Taiwan

A06-04, HIS-2009-IS11-04

#### ***An Evolutionary Fuzzy Behaviour Controller using Genetic Algorithm in RoboCup Soccer Game***

Jong-Yih Kuo and Yuan-Cheng Ou

National Taipei University of Technology, Taiwan

A06-04, HIS-2009-IS11-05

#### ***A Modified K-means Algorithm for Sequence Clustering***

Jia-Lien Hsu, and Hong-Xiang Yang

Fu Jen Catholic University, Taiwan

A06-05, HIS-2009-IS11-06

#### ***An Intelligent Fuzzy Affective Computing System for Elderly Living Alone***

Chein-Chang Hsu and You Yin Chien

Fu-Jen Catholic University, Taiwan

A06-06, HIS-2009-IS11-07

#### ***Medical Adverse Events Classification for Domain Knowledge Extraction***

Rung-Ching Chen, Pao-Cho Tsan, I-Yen Lee, and Jiin-Chyr Hsu

University of Technology Taichung, Taiwan

## P03

### Poster Session (3)

P03-01, HIS-2009-284

***A Classification Algorithm based on an Association Rule of Multiple Frequent Item-sets***

Zhi-Heng Liang

Shenyang Normal University, China

P03-02, HIS-2009-384

***Fault Prediction Model Based on Phase Space Reconstruction and Least Squares***

Support Vector Machines

Yun-Hong Gao, and Yi-Bo Li

Nanjing University, China

P03-03, HIS-2009-390

***Pitch in Speaker Recognition***

Jian-Wei Zhu, Shui-Fa Sun, Xiao-Li Liu, and Bang-Jun Lei

College of Electrical Engineering and Information Technology, China

P03-04, HIS-2009-400

***An Entropy-Based Fuzzy Controllers QoS Routing Algorithm in MANET***

Hua Chen, Baolin Sun, Yue Zeng, and Xianying He

Wuhan University of Science and Engineering China

P03-05, HIS-2009-404

***Optimization Algorithm Based on T-S Fuzzy Model of Self-adaptive Disturbed Particle Swarm Optimization and Neural Network***

Jian-Fang Wang, and Wei-Hua Li

Northwestern Polytechnical University, China

P03-06, HIS-2009-459

***A Special Supervised Learning Algorithm and Its Applications***

Yan-Jun Pang, Jiqiang Chen, and Nian-Peng Wang

Hebei University of Engineering, China

P03-07, HIS-2009-492

***A Security Technology for Mobile Agent System Improved by Trusted Computing Platform***

Zhi-Dong Shen, and Qiang Tong

Wuhan University, China

P03-08, HIS-2009-517

***Dynamic Execution Strategy of Web Service Composition Based on e\_SPDL and Service Container***

Dan Yang, Hong Wang, and Yang Liu

Technology Liaoning Software College Anshan, China

## P04

### Poster Session (4)

P04-01, HIS-2009-555

***Solenoid Valve Switching Characteristic Test System Design***

Xue-Ling Song, Ying-Bao Zhao, Chao-Ying Liu, and Zhe-Ying Song  
Hebei University of Science and Technology, China

P04-02, HIS-2009-567

***Optimizing the QoS Performance of Fast Rerouting***

Xin Li, Qin Zhen, and Yu Tao  
Beijing University of Posts and Telecommunications, China

P04-03, HIS-2009-577

***Automated thickness measurement of nacreous layer of seawater pearls based on Optical Coherence Tomography***

Cheng-Kun Xue, Yan-Kui Sun, Dao-Shun Wang, and Peng Li  
Tsinghua University, Beijing, China

P04-04, HIS-2009-585

***Automated thickness measurements of pearl from optical coherence tomography images***

Ming Lei, Yan-Kui Sun, Dao-Shun Wang, and Peng Li  
Tsinghua University, Beijing, China

P04-05, HIS-2009-604

***A General Model Checking Method of Electronic Transaction Protocols Using Colored Petri Nets***

Meng Xu, Gui-Ping Su, and Jin Wei  
University of Chinese Academy of Sciences, China

P04-06, HIS-2009-661

***An extended Fuzzy AHP based Partner Selection and Evaluation for Aeronautical Subcontract Production***

Zhiqiang Jiang, Xi-Lan Feng, and Jin-Fa Shi  
Zhengzhou Institute of Aeronautical Industry Management, China

P04-07, HIS-2009-687

***Research on Simulating-Human Intelligent Control Method For The cold-storage of Fruits and Vegetables***

Kai-Sheng Zhang, Jia-An Zhang, and Guo-Fa Guo  
Shaanxi University of Science and Technology, China

P04-08, HIS-2009-838

***Ontology Driven Semantic Search over Structure P2P Network***

Jinqing Cai, Xiuli Shao, and Wen-Hui Ma  
Nankai University, China

## B01

### Computational Modeling of Complex Systems

Prof. Chun-Xiao Zhao, Beijing University of Civil Engineering and Architecture, China

Prof. Cheng-Cheng Wang, Beijing University of Civil Engineering and Architecture, China

B01-01, HIS-2009-IS17-01

#### ***Computational Modeling of Complex Systems: Case Study in Real World***

Chun-Xiao Zhao and Li-Jun Wang

Beijing University of Civil Engineering and Architecture, China

B01-02, HIS-2009-IS17-03

#### ***Mining Topology Characteristics and Evolution of Large-scale Software from Core-shell Structure***

Hao-Hua Zhang, Yu-Fu Deng, Wei-Yi Qi, Jiang-Wen Feng, and Li-Qing Zhang

ShenYang Normal University, China

B01-03, HIS-2009-IS17-05

#### ***The Netlogo-based Dynamic Model for the Teaching***

Long-Bin Jiang and Chun-Xiao Zhao

Shenyang Normal University, China

B01-04, HIS-2009-IS17-07

#### ***Research on Searching Mechanism Based on Interest in Kademlia***

Chun-Xiao Zhao, and He Zhang

Beijing University, China

B01-05, HIS-2009-IS17-08

#### ***Temperature Control System of the Thermal Analyzer Based on Fuzzy PID Controller***

Zhi-Xue Dong, Yi-La Su, Xiang-Yong Yan

Inner Mongolia University of Technology, China

B01-06, HIS-2009-IS17-11

#### ***The Measurement and Evaluation for Large-scale Object-oriented Software System***

Ming-Guang Zhu, Hao-Hua Zhang, Wei-Yi Qi, Shi-Jun Ma, and Chuan-Yin Wang

ShenYang Normal University, China

B01-07, HIS-2009-IS17-12

#### ***An Integrated Simulation Platform for Railway Synthetic Monitor and Control System in Multiple Layer Transportation Hinge***

Zhang Lei, Chen Zhi-Xin, Wang Jia, and Yin Xiao-Hong

Beijing University of Civil Engineering and Architecture, China

B01-08, HIS-2009-IS17-016

#### ***Study on the Network Structure of the Regional Security Monitoring Center in Comprehensive Transportation Hubs***

Cheng-Cheng Wang, Jia Wang, and Zhi-Xin Chen

Beijing University of Civil Engineering and Architecture, China

## B02

### Kernel Learning, Cluster Analysis, and its Applications

Prof. Lian-Qiang Niu, Shenyang University of Technology, China

Prof. Xiao-Fen Zhang, Shenyang Normal University, China

B02-01, HIS-2009-526

#### ***Two Stage Semantic Relation Extraction***

Ji-Bin Fu, Xiao-Zhong Fan, Jin-Tao Mao, and Xiao-Ming Liu

Beijing Institute of Technology, China

B02-02, HIS-2009-251

#### ***Research on Construction and Encoding Method of Virtual Query Ontology Tree***

Ya-Jie Fei, and Wei-Guang Tong

Shenyang Institute of Engineering, China

B02-03, HIS-2009-537

#### ***A novel data mining model based on SOAP in e-commerce***

Xiao-Fen Zhang, Ben Niu, and Jing Zhao

Shenyang Normal University, China

B02-04, HIS-2009-627

#### ***Chinese Unknown Words Extraction Based on Word-Level Characteristics***

Wen-Bo Pang, Xiaoz-Hong Fan, Yi-Jun Gu, and Jiang-De Yu

Beijing Institute of Technology, China

B02-05, HIS-2009-1219

#### ***A Time-Efficient Method for Metaheuristics: Using Tabu Search and Tabu GA as a Case***

Chun-Wei Tsai, Shih-Pang Tseng, Ming-Chao Chiang, and Chu-Sing Yang

National Sun Yat-sen University, Taiwan

B02-06, HIS-2009-1224

#### ***Application of Reinforcement Learning in Autonomous Navigation for Virtual Vehicles***

Lian-Qiang Niu and Ling Li

Shenyang University of Technology, China

## B03

### Recent Advances on Swarm Intelligence (1)

Prof. Zhi-Hua Cui, Taiyuan University of Science and Technology, China

Prof. Yong-Bo Yuan, Dalian University of Technology, China

B03-01, HIS-2009-IS14-01

***Individual Cognitive Parameter Setting Based on Black Stork Foraging Process***

Zhi-Hua Cui

Taiyuan University of Science and Technology, China

B03-02, HIS-2009-IS14-02

***Using Small-world Model to Improve the Performance of Alignment Particle Swarm Optimization***

Xing-Juan Cai

Taiyuan University of Science and Technology, China

B03-03, HIS-2009-641

***Analysis and Improvement of Extremum Random Disturbed Arithmetic Operator of A PSO Algorithm***

Hou Qing-Jian and Wang Hong-Li

aXi'an Research Inst. of Hi-Tech, China

B03-04 HIS-2009-1016

***A Solution to Resource-Constrained Project Scheduling Problem***

Yongbo Yuan, Kai Wang, and Le Ding

Dalian University of Technology, China

B03-05 HIS-2009-1070

***Canonical Coin Systems for CHANGE-MAKING Problems***

Xuan Cai

Shanghai Jiao Tong University, China

B03-06 HIS-2009-1081

***Iterative Local Search Heuristic for the Single Machine Scheduling Problem with Sequence Dependent Setup Times and Due Dates***

José Elias C. Arroyo, Gilberto Vinicius P. Nunes, and Edmar Hell Kamke

Universidade Federal de Viçosa, Brazil

P09

Poster Session (9)

P09-01, HIS-2009-615

***Optimal Scheduling for the Cleaning Spin Pack in Polyester Production***

Jin Hui, Yue-Ling Zhao, and Da-Zhi Wang  
Liaoning University of Technology, China

P09-02, HIS-2009-IS16-09

***Study of Rotating Machinery Fault Diagnosis Model with Integrating Neural Network and Expert System***

Yanqiu Wang and Kejian Yang  
Liaoning University of Technology, China

P09-03, HIS-2009-IS16-10

***The Research on NURBS Curve Extraction Method of New Type Numerical Control Machine***

Ya-Ling Jin, Ying-Ying Liu, Jing-Min Wei, and Xin-Xin Guo  
Shenyang Ligong University, China

P09-04, HIS-2009-IS17-02

***Using Multi-Phase Cost-Sensitive Learning to Filtering Spam***

Wen-Bin Li, Yiying Cheng, Tai-Feng Liu, Xin-Dong Zhang, and Ning Zhong  
Shijiazhuang University, China

P09-05, HIS-2009-IS17-09

***Research of Campus Wireless Mobile Model***

Ding Ning, Chun-Xiao Zhao, Lu Gao, and Li-Jun Wang  
University of Science and Technology, China  
Beijing University of Technology, China

P09-06, HIS-2009-IS17-14

***A New Algorithm for Designing Square Root Calculators based on FPGA with Pipeline Technology***

Xiu-Min Wang, Yang Zhang, Qiang Ye, and Shi-Hua Yang  
China Jiliang University, China

P09-07, HIS-2009-IS17-017

***A New Design of HDB3 Encoder and Decoder Based on FPGA***

Yang Zhang, Xiu-Min Wang, and Yu-Duo Wang  
China Jiliang University, China

P09-08, HIS-2009-IS18-01

***Backing up Truck Control automatically Based on LOS***

Jing Wang and Yong Zhang  
School of Control Science and Engineering University of Jinan, China

P05

Poster Session (5)

P05-01, HIS-2009-842

***The AdaBoost Algorithm with Prior Probabilities and the Visualization Demonstrated in GIS for Geo-hazard Forecasting***

Xiang-Hui Zhao, Zhong-Liang Fu, Yao Yu, and Miao Qing  
Chinese Academy of Sciences, China

P05-02, HIS-2009-850

***High Accuracy and Reliability Integrated Navigation Method for Long endurance Aircraft***

Bo Yang, Yue-Gang Wang, and Yan Chai  
Xi'an Research Inst. Of High-Tech, China

P05-03, HIS-2009-855

***Online Monitoring and Intelligent Diagnosis System Based on Hybrid Wireless Network for Large Complicated Equipment***

Zhang Jinyu, Cai Wei, Huang Xian-Xiang, and Xie Jian  
Xi'an Research Institute of High-tech Xi'an, China

P05-04, HIS-2009-870

***The DCS of Waste Heat Power Generation of Cement Plant Based on Fuzzy Control***

Shao-Yun Wang, Qing-Jin Meng, and Jing-Jian Wu  
University of Jinan, China

P05-05, HIS-2009-887

***Exact Solutions for the Generalized Derivative Schrodinger Equation***

Yuan-Yuan Zhang  
China Three Gorges University, China

P05-06, HIS-2009-1020

***A Fuzzy Approach for Vision-based Object Perception in Robot Telecontrol***

Chen-Sheng Wang, Fei Wang, Xiao-Chun Wang, Joris S.M. Vergeest, and Tjamme Wigiers  
Beijing University, China

P05-07, HIS-2009-1090

***Optimizing Research of Man on Board Automated Storage and Retrieval System Goods Storing and Retrieving Problem***

Wei-Jun Zhang, and Qi Liu  
Shenyang institute of aeronautical engineering, China

P05-08, HIS-2009-1100

***A Particle Swarm Optimization with Feasibility-based Rules for Mixed-variable Optimization Problems***

Chao-Li Sun, Jian-Chao Zeng, and Jeng-Shyang Pan  
Taiyuan University of Science and Technology, China

## P06

### Poster Session (6)

P06-01, HIS-2009-1104

***Image Segmentation Based on GC-CV***

Ye Hou, Bao-long Guo, Jeng-Shyang Pan, and Chin-Shiuh Shieh

Xidian University, China

Shenzhen Graduate School Harbin Institute of Technology, China

P06-02, HIS-2009-1108

***The Turbo equalization in Bit Interleaved Coded Modulation with Iterative Decoding***

Wu-Sheng Zhao, Yong-Qing Fu, and Qiang Lv

Harbin Engineering University, China

P06-03, HIS-2009-1141

***An Energy-aware Routing Algorithm for Heterogeneous Wireless Sensor Networks***

Ying Liang and Yong-Xin Feng

Shenyang Ligong University-Liaoning Province, China

P06-04, HIS-2009-1165

***Petri Net Simulation Algorithm of the Shortest Path in Transportation of Wartime***

Liu Xuan and Sheng-Guo Huang

Nanjing University of Aeronautics & Astronautics, China

P06-05, HIS-2009-116

***Strong Simultaneous Stabilization for a class of Generalized Linear System***

Jing Ma and Kun Ma

University of Jinan, China

China Petroleum Engineering Co., China

P06-06, HIS-2009-122

***General Controller for a class of Singular System Simultaneous Stabilization***

Jing Ma, and Zhi-Wei Gao

University of Jinan, China

P06-07, HIS-2009-764

***Comparative study on class imbalance learning for credit scoring***

Ping Yao

Heilongjiang Institute of Science and Technology, China

P06-08, HIS-2009-767

***Credit scoring using ensemble machine learning***

Ping Yao

Heilongjiang Institute of Science and Technology, China

## B04

### Recent Advances on Swarm Intelligence (2)

Prof. Zhi-Hua Cui, Taiyuan University of Science and Technology, China

Prof. Shi-Dong Yu, Shenyang Normal University, China

B04-01, HIS-2009-IS14-05

***A New Individual-decision Cognitive Learning Factor Selection Strategy***

Guo-Hui Jiao, and Zhi-Hua Cui

Taiyuan University of Science and Technology, China

B04-02, HIS-2009-547

***RBF Neural Network based on Fuzzy Evolution Kalman Filtering and Application in Mine Safety Monitoring***

Yong Zhang, Qing-Dong Du, Shi-Dong Yu, and Jeng-Shyang Pan

Shenyang Normal University, China

B04-03, HIS-2009-982

***Research and Simulation of Dynamic Resource Management Algorithm***

Na Lin, Xue-Ming Guan, and Li-Xue Song

Northeastern University, China

B04-04, HIS-2009-988

***Self Organizing Features Map with Improved Segmentation to Identify Touching of Adjacent Characters in Handwritten Words***

Fajri Kurniawan, Amjad Rehman, Dzulkifli Mohamad, and Siti Mariyam Shamsudin

Universiti Teknologi, Malaysia

B04-05, HIS-2009-1060

***Paths Optimal Ordering Algorithm Based on MPLS Traffic Engineering***

Na Lin, Wan-Fang Lv, and Tao Yang

Northeastern University, China

B04-06, HIS-2009-1066

***Research on Reconciliation Algorithm in Quantum Key Distribution***

Chang-Qing Gong, Hong-Yuan Zhou, and Jian-Li Feng

Computer College Shenyang Institute of Aeronautical Engineering, China

## B05

### Innovative Computing for Image Analysis (1)

Prof. Hsiang-Cheh Huang, National University of Kaohsiung, Taiwan

Prof. Yueh-Hong Chen, Far East University, Taiwan

B05-01, HIS-2009-1096

#### ***Fuzzy-based Bacterial Foraging for Watermarking Applications***

Hsiang-Cheh Huang, Yueh-Hong Chen, and Guan-Yu Lin

National University of Kaohsiung, Taiwan

B05-02, HIS-2009-1229

#### ***Genetic Watermarking Based on Wavelet Packet Transform***

Yueh-Hong Chen and Hsiang-Cheh Huang

Far East University, Taiwan

B05-03, HIS-2009-337

#### ***A Self-Reference Watermarking Scheme Based on Wet Paper Coding***

Chin-Chen Chang, Pei-Yu Lin, and Jung-San Lee

Feng Chia University, Taiwan

B05-04, HIS-2009-1117

#### ***Image Sequences Based Traffic Incident Detection for Signaled Intersections Using HMM***

Yue-Xian Zou, Guang-Yi Shi, Hang Shi, and Yi-Yan Wang

Shenzhen Graduate School of Peking University, China

B05-05, HIS-2009-1151

#### ***Video Image Vehicle Detection System for Signaled Traffic Intersection***

Yi-Yan Wang, Yue-Xian Zou, Hang Shi, and He Zhao

Shenzhen Graduate School of Peking University, China

## B06

Intelligent computing for control and application

Prof. Yong Zhang, University of Jinan, China

Dr. Tao Shen, University of Jinan, China

B06-01, HIS-2009-IS18-02

***The design of an observer-based neural adaptive controller for a class of nonlinear systems with input-constrained***

Fang Min, Xue-Yan Yang, Hui Fang, and Xiao-Li Bai

University of Jinan, China

B06-02, HIS-2009-IS18-06

***Practical Stability of Large-scale Stochastic Markovian Jump Systems with Time-delays***

Ping Zhao and Yan Zhao

University of Jinan, China

B06-03, HIS-2009-667

***An Efficient Neuro-Fuzzy-Genetic Data mining Framework Based On Computational Intelligence***

Zhi-Bing Zhang

Jiangxi University of Finance & Economics, China

B06-04, HIS-2009-421

***Implementation of a General Ethernet Interface for Embedded System***

Chuan-Sheng Zhou and Fu Chong

Shenyang Normal University, China

B06-05, HIS-2009-IS18-12

***Research on Dynamic Model of Preheater base on RBF-ARX Model***

Zhu-Gang Yuan and Jun-Jian Wang

University of Jinan, China

B06-06, HIS-2009-IS18-13

***The Application of Intelligent Control to Combustion Control System of CFB Boiler***

Qing-Jin Meng, Bao-Ling Xing, Hong-Liang Yu, and Jing-Jian Wu

University of Jinan, China

B06-07, HIS-2009-IS18-14

***Fuzzy Identification for State of Burning Zone in Cement Vertical Kiln***

Zhugang Yuan and Hong-Liang Yu

University of Jinan, China

B07

Theories and Applications for Wireless Sensor Networks

Prof. Gui-Ran Chang, Northeastern University, China

Dr. Jie Jia, Northeastern University, China

B07-01, HIS-2009-IS22-04

***Frequent Items Computation over Uncertain Wireless Sensor Network***

Shuang Wang, Guoren Wang, Xiao-Xin Gao, and Zhen-Hua Tan

Northeastern University, China

B07-02, HIS-2009-IS22-05

***Research and Implementation of Embedded Intelligent Network Self-Healing Equipment Based on EI Link***

Jing-Ping Song, Zhi-Liang Zhu, Ye Yang, Hai Yu , and Meng-Meng Li

Northeastern University, China

B07-03, HIS-2009-IS22-07

***Optimization of Resource Allocation in Multi-radio Multi-Channel Wireless Mesh Networks***

Jian Chen, Jie Jia, Ying-You Wen, Da-Zhe Zhao, and Ji-Ren Liu

Northeastern University, China

B07-04, HIS-2009-IS22-09

***Sleep Scheduling based on Probabilistic Detection Model for Wireless Sensor Networks***

Jie Jia, Ruiyun Yu, Jie Li, Lin-Liang Zhao, and Guiran Chang

Northeastern University, China

B07-05, HIS-2009-746

***Study of ZigBee Wireless Mesh Networks***

Jing Sun and Xiao-Fen Zhang

Shenyang Normal University, China

P07

Poster Session (7)

P07-01, HIS-2009-912

***Ultrasonic Testing Signal Processing of Weld Flaw Based on the Second Generation Wavelet***

Gao-Hua Liao and Jun-Mei Xi

Nanchang Institute of Technology, China

P07-02, HIS-2009-918

***Pipeline weld detection system based on machine vision***

Gao-Hua Liao and Jun-Mei Xi

Nanchang Institute of Technology, China

P07-03, HIS-2008-226

***Available Bandwidth Estimation in IEEE 802.11 ad hoc networks***

Qing-Hui Wang, Ansong Feng, and Jing-Xing Cao

Shenyang Institute of Chemical Technology, China

P07-04, HIS-2009-234

***Software Design of Embedded Video Telephone Based on PJSIP Stack***

Lifeng Wei, Qing-Hui Wang, and Hong-Wei Ren

Shenyang Institute of Chemical Technology, China

P07-05, HIS-2009-966

***The Fault Diagnosis Model Of Transformer Which Based On The Technology Of Information Fusion***

Yis-Han Gong and Bo Zhang

Shenyang University of Technology, China

P07-06, HIS-2009-IS13-01

***Initializing K-means Clustering Using Affinity Propagation***

Yan Zhu, Jian Yu, and Cai-Yan Jia

Beijing Jiaotong University, China

P07-07, HIS-2009-IS13-02

***Otsu method and K-means***

Dong-Ju Liu and Jian Yu

Beijing Jiaotong University, China

P07-08, HIS-2009-IS14-06

***Inertia Weight Selection Strategy Based On Lyapunov Stability Analysis***

Weibing Fan, Zhihua Cui, and Jianchao Ceng

Taiyuan University of Science and Technology, China

## P08

### Poster Session (8)

P08-01, HIS-2009-IS14-08

***Dynamic Population-based particle swarm optimization combined with crossover operator***

Yan-Jiang Miao, ZhiHua Cui, and JianChao Zeng  
Taiyuan University of Science and Technology, China

P08-02, HIS-2009-IS14-09

***Probability Diffused Particle Swarm Optimization***

Qiu-Yan Qin, Zhi-Hua Cui, and Jian-Chao Zeng  
Taiyuan University of Science and Technology, China

P08-03, HIS-2009-IS14-10

***Comparison and Analysis of the Selection Mechanism in the Artificial Bee Colony Algorithm***

Li Bao and Jian-Chao Zeng  
Taiyuan University of Science and Technology, China

P08-04, HIS-2009-IS15-01

***The Performance Optimization of CLIPS***

Yu-Xin Ding, Qing Wang, and Jia-Hua Huang  
Harbin Institute of Technology Shenzhen Graduate School, China

P08-05, HIS-2009-IS15-02

***Reachback Firefly Synchronicity with Late Sensitivity Window in Wireless Sensor Networks***

Lin Cui and Hong-Peng Wang  
Harbin Institute of Technology Shenzhen Graduate School, China

P08-06, HIS-2009-IS15-03

***A New Integration Method for Reliable Abstract Sensors***

Neng Luo and Hongpeng Wang  
Harbin Institute of Technology Shenzhen Graduate School, China

P08-07, HIS-2009-IS16-01

***A Modeling Method to Size Concentration in Slashing Process using Principal Component Analysis***

Yu-Xian Zhang and Jian-Hui Wang  
Tsinghua University, China

P08-08, HIS-2009-IS16-02

***Simulation Study of AC Motor Speed Sensorless Vector Control System Based on SVPWM***

Hui Jin, Yue-Ling Zhao, and Da-Zhi Wang  
Liaoning University of Technology, China

## C01

### Novel Approaches to Pervasive Applications

Prof. Bao-Rong Chang, National University of Kaohsiung, Taiwan

Prof. Chin-Feng Lee, Chaoyang University of Technology, Taiwan

C01-01, HIS-2009-IS01-01

***A Fast and Effective Approach to Lane Marking and Neighboring Vehicles  
Detections Based on Vision/GPS Sensing Together with Vehicle-to-Vehicle  
Communication***

Bao Rong Chang, Hsiu-Fen Tsai, and Chung-Ping Young  
National University of Kaohsiung, Taiwan

C01-02, HIS-2009-IS01-03

***A VSS Scheme of Image Size Invariant for Vertical Edge Enhancement***

Chin-Feng Lee, Chin-Chen Chang, and Tien-Chung Liu  
Chaoyang University of Technology, Taiwan

C01-03, HIS-2009-IS01-04

***Intermediate-Scale Instability Phenomena of Buck-Boost Power Factor Correctors***

Fei-Hu Hsieh, Hen-Kung Wang, Po-Lun Chang, and Chi-Syuan Chang  
Lung-Hwa University of Science and Technology, Taiwan

C01-04, HIS-2009-103

***On Dynamics of Student Networks***

Ye Xu and Zhuo Wang  
Shenyang Ligong University, China

C01-05, HIS-2009-342

***Research on Network Teaching System Based on Open Source Framework***

Bo Song and Jing Zhao  
Shenyang Normal University, China

## C02

### Information Management & Knowledge Management (1)

Prof. Xue-Ying Wang, Shenyang Normal University, China

Prof. Yi-Gang Zhou, Wuhan University, China

C02-01, HIS-2009-IS28-02

***An Open Source Toolkit for Grid Resources Scheduling in Digital Library***

Yigang Zhou, Hui Dong, and Ziran Zhang

Wuhan University, China

C02-02, HIS-2009-IS28-03

***A Protégé Plug-in for Modeling Dimensional Ontology***

Hui Dong, Siwei Yu, and Ying Jiang

Wuhan University, China

C02-03, HIS-2009-IS28-04

***A Novel Weighted Fuzzy Clustering Analysis Based On AFS Theory***

Yanli Zhang, Xiao-Dong Liu, and Xue-Ying Wang

Shenyang Normal University, China

C02-04, HIS-2009-IS28-05

***A Novel Data Purification Algorithm Based On Outlier Mining***

Jian-Feng Dong, Xiao-Feng Wang, Feng Hu, and Liyan Xiao

Wuhan University, China

C02-05, HIS-2009-IS28-06

***An Improved Anti-collision Algorithm in RFID System***

Jia-lin Ma and Xu Wei

Shenyang Normal University, China

C02-06, HIS-2009-IS28-07

***Research into Web-based 4PL supply chain system model of***

***Multi-TPLs —Information-based Model Suitable for Chinese TPL***

Yan Zhang and Shurong Guo

Shenyang University, China

## C03

### Theories and Applications for Peer-to-Peer Overlay Networks (1)

Prof. Tian-Hua Liu, Shenyang Normal University, China

Dr. Zhen-Hua Tan, Shenyang Normal University, China

C03-01, HIS-2009-IS25-01

***An Improved Peer-to-Peer Routing Algorithm K-CSSP Based on Communication History Clustered by K-means***

Zhen-Hua Tan, Guiran Chang, Wei Cheng, and Yi Ma

Northeastern University, China

C03-02, HIS-2009-IS25-02

***Research on the Epidemic Model in P2P File-sharing System***

Wei Yang, Wei Ying, Gui-Ran Chang, and Zhuo-Qun Zhang

Northeastern University Shenyang, China

C03-03, HIS-2009-IS25-03

***A Signature-behavior-based P2P worm detection approach***

Yu Yao, Yong Li, Fu-Xiang Gao, and Ge Yu

Northeastern University, China

C03-04, HIS-2009-IS25-04

***A P2P Network Topology Optimized Algorithm Based on Minimum Maximum K-Means Principle***

Yi Ma, Zhen-Hua Tan, Guiran Chang, and Xiao-Xing Gao

Software College of Northeastern University, China

C03-05, HIS-2009-IS25-05

***An Efficient Concealment Searching Model in P2P Network***

Hong-Feng Zhu, Tian-Hua Liu, and Zhen-Hua Tan

Shenyang Normal University Shenyang, China

C03-06, HIS-2009-229

***A P2P –Grid Model for Traversing NAT in SIP Communication***

Qinghui Wang, Lifeng Wei, and Danbin Liu

Shenyang Institute of Chemical Technology, China

C04

Novel Approaches to Information Security Application (1)

Prof. Wen-Chung Kuo, National Formosa University, Taiwan

Prof. Iuon-Chang Lin, National Chung Hsing University, Taiwan

C04-01, HIS-2009-IS26-01

***An Enhancement of JPEG Still Image Compression with Adaptive Linear Regression and Golomb-Rice coding***

Chin-Chen Chang and Yeu-Pong Lai

Feng Chia University, Taiwan

C04-02, HIS-2009-IS26-02

***An Efficient Mutual Authentication Protocol for RFID Systems***

Iuon-Chang Lin, Rui-Kun Luo, and Shih-Chang Tsao

National Chung Hsing University, Taiwan

C04-03, HIS-2009-790

***Robust and Simple multi-server authentication protocol without verification table***

Hong-Feng Zhu, Tian-Hua Liu, and Jie Liu

Shenyang Normal University, China

C04-04, HIS-2009-927

***Fuzzy Mamdani Inference System Skin Detection***

Ali Selamat, Mohd Aizaini Maarof, and Tey Yi Chin

Universiti Teknologi Malaysia Faculty of Computer Science and Information Systems , Malaysia

C04-05, HIS-2009-1036

***A Memetic Algorithm for the Generalized Minimum Vertex-Biconnected Network Problem***

Bin Hu, and Günther R. Raidl

Vienna University of Technology Favoritenstraße, Austria

C17

Innovative Computing for Image Analysis (2)

Prof. Chuan-Yu Chang, National Yunlin University of Science and Technology, Taiwan

Prof. Wu-Chih Hu, National Penghu University, Taiwan

Prof. Ku-Yaw Chang, Da-Yeh University, Taiwan, Taiwan

C17-01, HIS-2009-IS09-01

***Automatic Diagnosis of Thyroid Graves' Disease in Ultrasound Images***

Chuan-Yu Chang, Hsiang-Yi Liu, Chin-Hsiao Tseng, and Shyang-Rong Shih

National Yunlin University of Science & Technology, Taiwan

C17-02, HIS-2009-IS09-02

***Integrating the Validation Incremental Neural Network and Radial-Basis Function Neural Network for Segmenting Prostate in Ultrasound Images***

Chuan-Yu Chang, Yi-Lian Wu, and Yuh-Shyan Tsai

National Yunlin University of Science & Technology, Taiwan

C17-03, HIS-2009-353

***Semi-automatic Road Extraction from High-resolution Remote Sensing Image: Review and Prospects***

Yi-Bo Li, Li-Li Xu, and Hui Piao

Shenyang Institute of Aeronautical Technology, China

C17-04, HIS-2009- 489

***A new Approach of Image Enhancement based on Multi-Scale Morphological Reconstruction***

Shu Yang, Cai-rong Wang, and Ligou Deng

Shenyang Normal University, China

C17-05, HIS-2009-IS09-03

***Video Object Segmentation by Integrating Motion Information and Gradient Compensation without Background Construction***

Wu-Chih Hu, Ching-Yu Yang, Deng-Yuan Huang, and Jung-Fu Hsu

National Penghu University, Taiwan

C17-06, HIS-2009-IS09-04

***Articular Cartilage Segmentation Based on Radial Transformation***

Ku-Yaw Chang, Shao-Jer Chen, Lih-Shyang Chen, and Cheng-Jung Wu

Da-Yeh University, Taiwan

## P10

### Poster Session (10)

P10-01, HIS-2009-IS18-03

***Singular Rough Decision and Secure Transmission of Decision Conclusion***

Hai-Qing Hu, Chong Li, and Chun-Mei Li

University of Jinan, China

P10-02, HIS-2009-IS18-04

***Bilinear Control for Global Controllability of the Parabolic-Elliptic Equations***

Xiju Zong and Xin-Gong Cheng

University of Jinan, China

P10-03, HIS-2009-IS18-11

***Research on Turn Ratio of Magnetic Valve Type Controlled Reactor Based on Bifurcation Theory***

Yong-Feng Zhang, Xingong Cheng, and Xi-Ju Zong

University of Jinan, China

P10-04, HIS-2009-IS18-05

***The Bang-Bang Control of Water Tank System Based on Fuzzy Decision***

Xin-Li Fang, Tao Shen, and Xue-Song Feng

University of Jinan, China

P10-05, HIS-2009-IS18-07

***MES Based on Data Integration in Cement Enterprise***

Shao-Hong Jing and Xiao-Hong Wang

University of Jinan, China

P10-06, HIS-2009-IS18-09

***Load Distribution Optimization System Based on MSCGA***

Yan Wang, Ying Yan, and Shan-Ping Qiao

University of Jinan, China

P10-07, HIS-2009-IS22-01

***Research on the Discovery of Blind Spots in Wireless Sensor Networks Based on***

***Voronoi Diagram***

Liz-Hong Jin, Guiran Chang, Dan Jiang, and Xing-Wei Wang

Northeastern University, China

P10-08, HIS-2009-IS22-03

***The Mechanism of Weak Dynamic Resource Reservation based on Signal Prediction Priority Queuing in Wireless Access Networks***

Jie Li, Xing-Wei Wang, Jie Jia, and Min Huang

Northeastern University, China

C05

Soft Computing to Industrial Management & Applications

Prof. Tien-Tsai Huang, Lunghwa University of Science and Technology,  
Taiwan

Prof. Meng Lei, Shenyang Normal University, China

C05-01, HIS-2009-IS03-01

***Applying Fuzzy Model on the Evaluation of Library Service Quality***

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

Lunghwa University of Science and Technology, Taiwan

C05-02, HIS-2009-IS03-02

***A Developed Restricted Rotation for Binary Trees Transformation***

Ro-Yu Wu, Jou-Ming Chang, and Chir-Ho Chang

Lunghwa University of Science and Technology, Taiwan

C05-03, HIS-2009-IS16-03

***The Neural Network Adaptive Filter Model Based on Wavelet Transform***

Xiao Qian, Ge Gang, and Jian-Hui Wang

Northeastern University, China

C05-04, HIS-2009-182

***Optimal Design of Rotating Actuators Made by Magnetically Controlled Shape Memory Alloy***

Jun Lu, Zhi-Hong Liang, and Wan-Chun Qu

Shenyang Ligong University, China

C05-05, HIS-2009-214

***A Novel Adaptive PSO Algorithm on Schaffer's F6 Function***

Xiao-Hong Qiu and Jun Liu

Jiangxi Agricultural University, China

C05-06, HIS-2009-294

***Video Compression Algorithm Based on Wavelet Transform***

Meng Lei and Li Hang

Shenyang Normal University, China

C05-07, HIS-2009-1171

***Advances in fuzzy method for natural computing***

Jing Zhang

Beijing Union University, China

## C06

### Theories and Applications for Peer-to-Peer Overlay Networks (2)

Prof. Tian-Hua Liu, Shenyang Normal University, China

Dr. Zhen-Hua Tan, Shenyang Normal University, China

C06-01, HIS-2009-IS25-06

#### ***A novel method to detect junk mail traffic***

Qiang Li and Bao-Liang Mu

Shenyang Normal university, China

C06-02, HIS-2009-IS25-07

#### ***Research on Security Mechanisms of SIP-based VoIP System***

Lian-Cheng Shan and Ning Jiang

Shenyang Normal University, China

C06-03, HIS-2009-IS25-08

#### ***The Improved Research of Chord Based on File-partition Replication Strategy***

Tian-Hua Liu, Ming-Yu Bao, Gui-Ran Chang, and Zhen-Hua Tan

Shenyang Normal University, China

C06-04, HIS-2009-IS25-09

#### ***Query Optimization over Distributed Data Stream***

Shuang Wang, Zhen-Hua Tan, and Xiao-Xing Gao

Northeastern University, China

C06-05, HIS-2009-IS25-10

#### ***Data Quality-Oriented Data Integration in Peer-to-Peer System***

Zhi-Gang Zhao

Shenyang Normal University, China

C06-06, HIS-2009-750

#### ***A P2P-SIP Architecture for Real Time Stream Media Communication***

Yang Deguo, Niu Lianqiang, and Wang Xincun

Shenyang University of Technology, China

C07

Novel Approaches to Information Security Application (2)

Prof. Lih-Chyau Wu, National Yunlin University of Science and Technology, Taiwan

Prof. Jaw-Shyang Wu, Tajen University, Taiwan

C07-01, HIS-2009-IS26-03

***A Data Hiding Scheme with High Embedding Capacity Based on General Improving Exploiting Modification Direction method***

Wen-Chung Kuo, Lih-Chyau Wu, Chia-Nian Shyi, and Shao-Hung Kuo  
National Formosa University, Taiwan

C07-02, HIS-2009-328

***On new semantic of “time” in fuzzy temporal databases***

Li-Guo Deng, Shu Yang, Jian-Hui Wang, and Shi-Dong Yu  
Shenyang Normal University, China

C07-03 HIS-2009-1194

***CSTS: A Prototype Tool for Testing COM Component Security***

Jin-Fu Chen, Yan-Sheng Lu, and Xiao-Dong Xie  
JiangSu University, China

C07-04, HIS-2009-1209

***An Autonomous Decision Approach for Fault Allocation and Service Restoration in Electrical Distribution Systems by Multi Agent System***

Jaw-Shyang Wu, Tsung-En Lee, Ching-Sung Lu, and Shung-Der Su  
Tajen University, Taiwan

C07-05, HIS-2009-1233

***A New Intelligent Authorization Agent Model in Grid***

Zhi-Hui Wang, Ming-Chu Li, Mao-Hua Chen, and Chin-Chen Chang  
Dalian University of Technology, China

C08

Information Management & Knowledge Management (2)

Prof. Xue-Ying Wang, Shenyang Normal University, China

Prof. Gang Li, Wuhan University, China

C08-01, HIS-2009-IS28-08

***An Information Sharing Incentive Model in Supply Chain with Mixed Retail and E-tail Channels***

Xiong-Wei Zhou and Fei-Cheng Ma

Wuhan University, China

C08-02, HIS-2009-IS28-09

***Symmetric Trends: Optimal Local Context Window in Chinese Word Sense Disambiguation***

Gang Li, Guang-Zeng Kou, Ercui Zhou, and Ling Zhang

Wuhan University, China

C08-03, HIS-2009-IS28-10

***The Development and Evaluation of Internet Data Mining System***

Wen-Qing Yuan and Li Luo

Wuhan University, China

C08-04, HIS-2009-IS28-11

***Influence of Organizational System to End-Users' Acceptance of ERP System in Chinese Enterprises***

Shu-Wei Huang, and Xue-Ying Wang

Shenyang Normal University, China

C08-05, HIS-2009-IS28-12

***Research on the Enterprise' Model of Information Lifecycle Management Based on Enterprise Architecture***

Hui-Yan Liu, Xue-Ying Wang, and Qqi-Zhe Quan

Shenyang Normal University, China

C08-06, HIS-2009-IS28-13

***The Strategy of Data Integration for Manufacturing Enterprises Based on Component Software Development***

Wen-Jing Tang, Hai-Ying Xie, and Cai-Rong Wang

Shenyang Normal University, China

## P11

### Poster Session (11)

P11-01, HIS-2009-IS22-08

***KDSR: An Efficient DHT-based Routing Protocol for Mobile Ad Hoc Networks***

Bo Zhao, Ying-You Wen, and Hong Zhao

Northeastern University, China

P11-02, HIS-2009-IS22-10

***Joint Consideration of Entropy and Voronoi Diagram for Sensor Network Deployment***

Ruiyun Yu, Xing-Wei Wang, and Jie Li

Northeastern University, China

P11-03, HIS-2009-IS24-03

***Design and Implementation of Data Management Center Based on Web Services***

Qiang Guo, Hai-Dong Zheng, Jie Li, and Xing-Wei Wang

Northeastern University, China

P11-04, HIS-2009-IS24-04

***A User Motivation Model for web Search Engine***

Chuan Wang, Guiran Chang, Xing-Wei Wang, Yan Ma, and Haitao MA

Northeastern University, China

P11-05, HIS-2009-IS24-05

***Research and Implementation of Data Saving Scheme of Network Topology***

Yanan Gao, Dancheng Li, Zhezhu Li, and Ye Yang

Northeastern University, China

P11-06, HIS-2009-IS24-06

***Research and Application on Automatic Network Topology Discovery in ITSM System***

Yide Wang, Dan-Cheng Li, ChunYan Han, and Zhi-Liang Zhu

Northeastern University, China

P11-07, HIS-2009-IS24-08

***Online Geographic Information Service Platform Based On Google Earth***

Huaiyu Xu, Xiao-Yu Hou, Heng Cai, Ruidan Su, and Qing Ni

Northeastern University, China

P11-08, HIS-2009-IS24-09

***A Virtual Community Building Platform based on Google Earth***

Huaiyu Xu, Qing Ni, Ruidan Su, Xiaoyu Hou, and Chao Xiao

Northeastern University, China

## P12

### Poster Session (12)

P12-01, HIS-2009-IS25-12

***LSB Algorithm Research Based on Chaos***

Guang-Ming Yang and Yang Zhou  
Northeastern University, China

P12-02, HIS-2009-IS25-14

***A Data Accessing Method in Distributed Massive Computing***

Da-Dan Zeng, Minqi Zhou, and Ao-Ying Zhou  
East China Normal University, China

P12-03, HIS-2009-IS24-01

***Design and Implementation of a Web Application Automation Testing Framework***

Wan-Dan Zeng, Ning-Kang Jiang, and Xu-Bo Zhou  
East China Normal University, China

P12-04, HIS-2009-IS25-20

***Remote Control System Design based on Web Server for Digital Home***

Huaiyu Xu, Ruidan Su, Xiao-Yu Hou, and Ni Qing  
Northeastern University, China

P12-05, HIS-2009-IS25-21

***Design and Implementation of Drill Hole of PCB Detection System***

Xiao-Xing Gao, Chun-Ze Zhao, Gui-Ran Chang, and Zhen-Hua Tan  
Northeastern University, China

P12-06, HIS-2009-IS25-22

***Design and Simulated Implementation of MATLAB-based Warning System for Fatigue Driving Driver***

Jian Wang and Bing Liu  
Northeastern University, China

P12-07, HIS-2009-IS25-24

***Blind Source Separation Based on FastICA***

Yan Liug, Ming Zhang, and Long-Bin Jiang  
Shenyang University Shenyang, China

P12-08, HIS-2009-IS25-25

***Study on Image Reconstruction Algorithm for Electrical Capacitance Tomography System***

Yao Chen, Xiao-Wei Wang, and Yan Jiang  
Shenyang University, China

C09

Theories and Applications for Peer-to-Peer Overlay Networks (3)

Prof. Tian-Hua Liu, Shenyang Normal University, China

Dr. Zhen-Hua Tan, Shenyang Normal University, China

C09-01, HIS-2009-IS25-15

***Robust image hash based on cyclic coding the distributed features***

SunYang

ShenYang Normal University, China

C09-02, HIS-2009-IS25-17

***A P2P Overlay Network Routing Algorithm Based on Group-Average Agglomerative Clustering Topology***

Yi Ma, Zhen-Hua Tan, Guiran Chang, and Xiao-Xing Gao

Software College of Northeastern University, China

C09-03, HIS-2009-IS25-18

***Research of a Service Monitoring System Based on SIP in Hybrid Network***

Xue-Hua Yang, and Hong-Bin Li

Shenyang Normal University, China

C09-04, HIS-2009-IS25-19

***An EPG Recommender Framework with Information Exchange between Users***

Chunguang Tan, Guiran Chang, Xing-Wei Wang, and Chuan Zhu

Northeastern University, China

C09-05, HIS-2009-IS25-23

***Algorithm Research on Velocity Measurement of Biphasic Flow***

Xiaowei Wang, Jiang-Yan, and Liye

Shenyang Normal University, China

C09-06, HIS-2009-176

***Design Methodology of a Fault Aware Controller Using an Incipient Fault Diagonizer***

Joydeb Roychoudhury, Tribeni P. Banerjee, Anup K. Bandopadhyaya, and Ajith Abraham

Central Mechanical Engineering Research Institute, Durgapur

## C10

### Information Management & Knowledge Management (3)

Prof. Xue-Ying Wang, Shenyang Normal University, China

Prof. Qi-Zhe Quan, Shenyang Normal University, China

C10-01, HIS-2009-IS28-14

***Application Study of BP Neural Network on Stock Market Prediction***

Feng Li and Cheng Liu

University of Science and Technology, China

C10-02, HIS-2009-IS28-15

***Study of Financial Risk Based on EVT***

Feng Li and Qizhe Quan

Shenyang Normal University, China

C10-03, HIS-2009-IS28-16

***Basic Factors Design of Pedagogical Agent System in An Ecology View***

Xue-Dong Sun and Lian-Hao Zhang

Shenyang Normal University, China

C10-04, HIS-2009-IS28-17

***Design of a Personalized Learning System Based on Intelligent Agent for E-learning***

Wen Li, and Xin Li

Shenyang Normal University, China

C10-05, HIS-2009-IS28-18

***Second Life: a New Window for E-learning***

Ying Zhao and Li-Li Wu

Shenyang Normal Universtiy, China

C10-06, HIS-2009-IS28-19

***Research on Personalized Services for Users of Education Resources Net***

Yongjun Jing, Xin Li, and Shao-Chun Zhong

Shenyang Normal University, China

## C11

### Design and Implementation of Control Systems

Dr. Kai-Chao Yao, National Changhua University of Education, Taiwan

Dr. Der-Fa Chen, National Changhua University of Education, Taiwan

C11-01, HIS-2009-IS30-01

#### ***Establishment of New Electro-oculogram Measurement Technique by Integrating Virtual Instrument***

Kai-Chao Yao and Der-Fa Chen

National Changhua University of Education, Taiwan

C11-02, HIS-2009-IS30-02

#### ***Line Loss Reduction by Distribution System Upgrading from Radial to Normally Closed-Loop Arrangement***

Wei-Tzer Huang and Shiuan-Tai Chen

Chienkuo Technology University, Taiwan

C11-03, HIS-2009-IS30-03

#### ***An Effective Hybrid PSOSA -based Multi-user Detection for DS-CDMA Ultra-WideBand Communications Systems***

Ho-Lung Hung, Chuang-Wang Chang, and Jyh-Horng Wen

Chienkuo Technology University, Taiwan

C11-04, HIS-2009-IS30-04

#### ***A Novel Sliding-Mode Controller Design for a Matrix Converter Drive System***

Der-Fa Chen and Kai-Chao Yao

National Changhua University of Education, Taiwan

C11-05, HIS-2009-IS30-05

#### ***Virtual Spectrum analyzer Design and Implementation***

Kai-Chao Yao, Tai-Li Chen, and Yu-Te Lian

National Changhua University of Education, Taiwan

C11-06, HIS-2009-758

#### ***Current Control of BLDCM Based on Fuzzy Adaptive ADRC***

Quan Dong and Quan Li

Jiangsu University, China

C11-07, HIS-2009-826

#### ***Vision based Navigation System of Intelligent Vehicles: A Robust Object Tracking Approach***

Shen Huan, Shun-Ming Li, Fang-Chao Bo, Xiao-Dong Miao, Fang-Pei Li, and Hua-Peng Zhou

Nanjing University, China

## C12

### Advanced Data Processing Technology

Prof. Bao-Yan Song, Liaoning University, China

Prof. Xiao-Mei Dong, Northeastern University, China

C12-01, HIS-2009-IS29-01

#### ***bSpace: A Data Cleaning Approach for RFID Data Streams Based on Virtual Spatial Granularity***

Bao-Yan Song, Peng-Fei Qin, Hao Wang, Wei-Hong Xuan, and Ge Yu  
Liaoning University, China

C12-02, HIS-2009-IS29-03

#### ***An Improved Spectral Clustering Algorithm for Community Discovery***

Shuzi Niu, Daling Wang, Shi Feng, and Ge Yu  
Northeastern University, China

C12-03, HIS-2009-IS29-04

#### ***A Real-Time Scheduling Strategy Based on Priority in Data Stream System***

Yan Wang, Weihong Xuan, Wei Li, Baoyan Song, and Xiaoguang Li  
Liaoning University, China

C12-04, HIS-2009-IS29-05

#### ***DeepSearcher: A One-Time Searcher for Deep Web***

Derong Shen, Gao-Shang Sun, Tie-Zheng Nie, and Yue Kou  
Northeastern University, China

C12-05, HIS-2009-IS29-07

#### ***An Immune Based Relational Database Intrusion Detection Algorithm***

Xiao-Mei Dong and Xiao-Hua Li  
Northeastern University, China

C12-06, HIS-2009-IS29-08

#### ***Priority-based Balance Scheduling in Real-Time Data Warehouse***

Jin-Gang Shi, Yu-Bin Bao, Fang-Ling Leng, and Ge Yu  
Northeastern University, China

C12-07, HIS-2009-470

#### ***Public Participation Interface of Urban Disaster Prevention Spatial System Planning –Application of Google Earth***

Cheng-An Tai, Yung-Lung Lee, and Ching-Yuan Lin  
National Taiwan University of Science and Technology, Taiwan

C12-08, HIS-2009-598

#### ***Euler Neural Network with its Weight-Direct-Determination and Structure-Automatic-Determination Algorithms***

Yunong Zhang, Ling-Feng Li, Yiwen Yang, and Gongqin Ruan  
School of Information Science and Technology, China

## P13

### Poster Session (13)

P13-01, HIS-2009-IS25-27

***The Noise Removal On Rebound Signal of Linear Frequency***

Peng Wu, Jing-Jiao Li, and Peng Wu

Northeastern university, China

P13-02, HIS-2009-IS25-28

***An Improved Network Topology Auto-layout Solution based on Force-directed Placement***

Gao Yuan, Li Dan-Cheng, Han Chun-Yan, and Zhu Zhi-Liang

Northeastern University, China

P13-03, HIS-2009-IS27-01

***The application study on Data fusion technology in classifying of Internal Component of Shells***

Wei Gao, Hai Zhao, Yan-Rong Cheng, and Zhan Mei

Northeastern University, China

P13-04, HIS-2009-IS27-02

***A Study of Data Fusion Based on Combining Rough Set with BP Neural Network***

Wei Gao, Hai Zhao, Jingxin Wen, and Nan Jiang

Northeastern University, China

P13-05, HIS-2009-IS27-05

***A Smart IVR system based on application gateways***

Chang-Xing Qi and Qing-Dong Du

Normal University, China

P13-06, HIS-2009-IS28-01

***Knowledge Representation of Chinese Genealogical Record of VIPs in KMT and CPC***

Hui Dong, Si-Wei Yu, and Ying Jiang

Wuhan University, China

P13-07, HIS-2009-IS28-24

***Web Data Mining System Based on Web Services***

Chun-Ying Chen, Xiong-Wei Zhou, and Jian-Zhong Zhang

Central South University, China

P13-08, HIS-2009-IS29-02

***Effectively Answering Schema-free XML Queries over Document-centric Data***

Xiao-Li Li, Xiao-Guang Li, and Bao-Yan Song

School of Information Liaoning University, China

## P14

### Poster Session (14)

P14-01, HIS-2009-IS29-06

***Efficient  $k$ -Dominant Skyline Processing in Wireless Sensor Networks***

Jian-Mei Huang, Jun-Chang Xin, Guoren Wang, and Miao Li

Northeastern University, China

P14-02, HIS-2009-IS29-09

***XML Functional Dependency and Schema Normalization***

Xiang-Guo Zhao, Jun-Chang Xin, and Ende Zhang

Northeastern University, China

P14-03, HIS-2009-WS01-03

***A Reliable Multi-path Routing Protocol in Wireless Sensor Network Design and Implementation***

Peng Li, Hai Zhao, Jia-Liang Wang, Liu Zheng, and Chun-Yang Yu

Northeastern University Shenyang, China

P14-04, HIS-2009-IS14-04

***Particle Swarm Optimization with group decision making***

Liang Wang, Zhi-Hua Cui, and Jian-Chao Zeng

Taiyuan University, China

P14-05, HIS-2009-IS12-01

***Variable sliding window DTW speech identification algorithm***

Guangyu Kang and Shize Guo

Harbin Institute of Technology, China

P14-06, HIS-2009-IS12-02

***Speaker Transformation Using Length-variable Moving Window Based GMM***

Guang-Yu Kang and Shize Guo

Harbin Institute of Technology, China

P14-07, HIS-2009-IS12-03

***3D Laser Scanning Data Segmentation Based on Region Dilation Strategy***

Meng Li, Ping Fu, and Sheng-He Sun

Harbin Institute of Technology Harbin, China

P14-08, HIS-2009-IS12-04

***3D Digital Patching using Height-map of Broken Surface***

Meng Li, Ping Fu, and Sheng-He Sun

Harbin Institute of Technology Harbin, China

## C13

### Information Management & Knowledge Management (4)

Prof. Xue-Ying Wang, Shenyang Normal University, China

Prof. Yu Yan, Shenyang Normal University, China

C13-01, HIS-2009-IS28-20

#### ***Analysis of E-learning Influencing Factors Based on ISM***

Xing-Hui Wang

Shenyang Normal University, China

C13-02, HIS-2009-IS28-21

#### ***Research on the Application of Data Mining Technology in Insurance Informatization***

Yu Yan and Hai-Ying Xie

Shenyang Normal University, China

C13-03, HIS-2009-IS28-22

#### ***Research on E-learning-Based Educational Technology Training Model for College Teachers***

Hailian Kou and Zheng-Gang Wan

Shenyang Normal University, China,

C13-04, HIS-2009-IS28-23

#### ***A Study on the Construction of Quality Courses Network Based on HPT***

Zheng-Gang Wan and Hai-Lian Kou

Shenyang Normal University, China

C13-05, HIS-2009-IS28-25

#### ***Modeling Unit of Learning in Learning Management System and Learning Content Management System with User Preference***

Kai-Li Wang and Philippe Trigano

Université de Technologie de Compiègne, France

Shenyang Normal University, China

C13-06, HIS-2009-IS28-26

#### ***An Enterprise Architecture Development Method in Chinese Manufacturing Industry***

Xue-Ying Wang and Ying Zhao

Shenyang Normal University, China

C14

Hybrid Intelligent Techniques for Power, Control and Communication

Prof. B K Panigrahi, Indian Institute of Technology Delhi, India

Prof. Ajith Abraham, Norwegian University of Science and Technology,  
Norway

C14-01, HIS-2009-IS33-02

***On Some Properties of the lbest Topology in Particle Swarm Optimization***

Sayan Ghosh, Debarati Kundu, Kaushik Suresh, Swagatam Das, Ajith Abraham,  
Bijaya. K. Panigrahi, and Václav Snášel

Jadavpur University, India

C14-02, HIS-2009-IS33-03

***Optimization of Turbo Codes by Differential Evolution and Genetic Algorithms***

Pavel Krömer, Václav Snášel, Jan Platoš, and Ajith Abraham

VŠB–Technical University of Ostrava, Czech Republic

C14-03, HIS-2009-1122

***The dynamic immune forecasting method of the airdrome flight delay under considering the stochastic factors***

Jian-Li Ding, Xue-Sen Li, and Guan-Sheng Tong

Civil Aviation University of China, China

C14-04, HIS-2009-IS33-04

***Scheduling Meta-tasks in Distributed Heterogeneous Computing Systems: A Meta-Heuristic Particle Swarm Optimization Approach***

Hesam Izakian, Ajith Abraham, and Václav Snášel

University of Isfahan, Iran

C14-05, HIS-2009-IS33-06

***Improved Harmony Search for Economic Power Dispatch***

V. Ravikumar Pandi, B. K. Panigrahi, Manas Kumar Mallick, Ajith Abraham, and  
Swagatam Das

Department of Electrical Engineering, ITT, India

C14-06, HIS-2009-649

***Study on Generation Companies' Bidding Strategy Based on Hybrid Intelligent Method***

Da-Wei Huang and Xue-Shan Han

Northeast Dianli University, China

## C15

### Soft Computing for Image and Signal Processing

Prof. Li-Hua Li, Chinese People's Public Security University, China

Prof. Hsiang-Cheh Huang, National University of Kaohsiung, Taiwan

C15-01, HIS-2009-IS34-01

***A THz Image Edge Detection Method Based on Wavelet and Neural Network***

Rong Wang, Li-Hua Li, Wei-Jun Hong, and Nan Yang

Chinese people's public security university, China

C15-02, HIS-2009-IS34-04

***The level filling algorithm for Clockwise edge***

Bi-Jing, Song-Kai, and Li-Hang

ShenYang Normal University, China

C15-03, HIS-2009-IS34-05

***The Research on Footprint Recognition Method Based on Wavelet and Fuzzy Neural Network***

Rong Wang, Wei-Jun Hong, and Nan Yang

College of security & protection Chinese people's public security university, China

C15-04, HIS-2009-IS34-06

***The Research of ISOETRP Clustering Algorithm on Optical Mathematical Symbols Recognition***

Li-Hua Li, Rong Wang, Jin-Tao Li, and Ge Wang

College of security & protection Chinese people's public security university, China

C15-05, HIS-2009-IS34-07

***A Soybean Image Noise Smoothing Method Using Multi-scale Morphology***

Yu-Hua Chai, Dan-Ting Zhao, and Rong Wang

Northeastern Agricultural University, China

C15-06, HIS-2009-149

***Rooftop Detection Based on 3D Line Data Using Fast Graph Search***

Dong-Min Woo and Dong-Chul Park

Myongji University, Gyeonggido, Korea

C15-07, HIS-2009-474

***The research on consolidated financial evaluation about corporate social responsibility based on Fuzzy-AHP***

Ze-Hong Li, Bin-Bin Liu, and Li-Chun Wang

North China Electric Power University, China

## C16

### Cross-discipline Techniques

Prof. Chia-Nan Wang, National Kaohsiung University of Applied Sciences, Taiwan

Prof. Jeff Z. Pan, University of Aberdeen, UK

C16-01, HIS-2009-95

#### ***KDD on IVR Navigation Trees: Case Study***

Thiago T. Angélico, Thais Santos Bueno, Silvio Bortoletto, and Anderson Ravello  
Universidade Positivo, Brasil

C16-02, HIS-2009-262

#### ***An All Digital Phase-Locked Loop System with High Performance on Wideband Frequency Tracking***

Chang-Hong Shan, Zhong-Ze Chen, and Jin-Xiong Jiang  
University of South China, China

C16-03, HIS-2009-407

#### ***Extraction and Code of Drainage Network Based on Digital Elevation Model***

Xue-Lian Chen, Jing-Tao Hu, Lian-Cheng Shan, and Ya-Ping Wang  
Shenyang Institute of Automation, China  
Liaoning Provincial College of Communications, China

C16-04, HIS-2009-418

#### ***An Implementation Strategy of Global OLTP based on ODS in Heterogeneous Environment***

Yue Zhang, Jie Liu and Hang Li  
Shenyang Normal University, China

C16-05, HIS-2009-725

#### ***Evaluate the potential suppliers' performance based on heuristic algorithm and Malmquist model: cased by IC packaging and testing industry of Taiwan***

Chia-Nan Wang, and Hsun-Cheng Liu  
National Kaohsiung University of Applied Sciences, Taiwan

C16-06, HIS-2009-1050

#### ***Forecasting Increment Control Methods in Regulated Period for the Temperature of Beer Fermentation***

Jian Tang and Wan-Chun Qu  
Shenyang Ligong University, China

C16-07, HIS-2009-1054

#### ***Multi-point calibration detecting method of non-linear analogue quantity***

Wan-Chun Qu and Jian Tang  
Shenyang Ligong University, China

C16-08, HIS-2009-1175

#### ***Implementing and Evaluating A Rule-based Approach to Querying Regular EL+ Ontologies***

Yuting Zhao, Jeff Z. Pan, and Yuan Ren  
University of Aberdeen, UK

## P15

### Poster Session (15)

P15-01, HIS-2009-279

***A Fast Exact Repeats Search Algorithm for Genome Analysis***

Wei-Dong Sun and Zong-Min MA

Northeastern University, China

P15-02, HIS-2009-IS17-10

***Approach for Multiple Constraints Based Qos Routing Problem of Network***

Shan-Shan Wan, Ying Hao, and Yuan Yang

University of Civil Engineering and Architecture, China

P15-03, HIS-2009-IS16-06

***A Damage Assessment System for Aero-engine Borscopic Inspection Based on Support Vector Machines***

Jiaoru Meng and Yunlin Luo

Institute of Science and Technology, China

P15-04, HIS-2009-IS22-11

***A Solution of Ubiquitous location based on GPS and Wi-Fi ULGW***

Yang Fan and Aoshuang Dong

Northeastern University, China

P15-05, HIS-2009-940

***A SNMPv3 Replay Protection Scheme Used in Space Network Based on Random Number***

Yue-Qiu Jiang, Sunt Kun, Wenbo Zhang, and Daozhu Zhang

Shenyang Ligong University, China

P15-06, HIS-2009-943

***Design and Emulation of Space Simple Network Management Protocol***

Jiang Yueqiu, Zhang Daozhu, Zhang Wen-Bo, and Sun Kun

Shenyang Ligong University, China

P15-07, HIS-2009-1112

***Steganalysis in Multiple Sources of Cover Images***

Zugen Liu

Shenyang Normal University, China

P15-08, HIS-2009-IS22-02

***A Mine-Environment-Based Energy-Efficient Routing Algorithm for Wireless Sensor Network***

Liu Kai

Changsha Social Work College, China

## P16

### Poster Session (16)

P16-01, HIS-2009-777

***Research on Cluster-Based Bandwidth Allocation Algorithm in Ad Hoc Network***

Deyu Zhang, Zhiguo Liu, and Yannan Wang  
Shenyang Ligong University, China

P16-02, HIS-2009-IS22-06

***Flooding and Directed Diffusion Routing Algorithm in Wireless Sensor Networks***

Lin-Liang Zhao, Gao-Qiang Liu, Jie Chen, and Zhi-Wei Zhang  
Northeastern University, Chian

P16-03, HIS-2009-IS24-02

***A Domain-Oriented Evaluation Model for QoS in Web Service***

Guo-Qi Liu, Zhi-Liang Zhu, Qin Wang, and Yi-Qiang Li  
Northeastern University, China

P16-04, HIS-2009-IS25-11

***A distributed security MIPv6 model based on dynamic policies***

Tianhan Gao, Nan Guo, and Zhi-Liang Zhu  
Software College, Northeastern University, China

P16-05, HIS-2009-IS17-13

***Dynamic Cross-system Workflow Integration Based on MAS***

Zhi-Wei Xu, Li-Min Liu, Yi-La Su, and Xue-Lian Yang  
Inner Mongolia University of Technology, China

P16-06, HIS-2009-498

***Research of Mobile Agent Technology for GIS Grid***

Qiang Tong and Zhi-Dong Shen  
Northeastern University, China

P16-07, HIS-2009-IS27-04

***Study on Decision Classification Fusion Model***

Xiao-Dan Zhang and Zhen-Dong Niu  
Beijing Institute of Technology University, China

P16-08, HIS-2009-IS33-01

***A Swarm-based Rough Set Approach for Group Decision Support Systems***

Ming-Yan Zhao, Hong-Bo Liu, Ajith Abraham, and Emilio Corchado  
Dalian University of Technology, China