

ISII2009 Program

September 14 (Monday) 08:40--10:10

A1: Fuzzy Logic (I)

Session Chair: Prof. Shaocheng Tong (Liaoning University of Technology, China)

A1-01:

ISII09-015 (ICIC-EL, Vol.3, No.3(A), pp.313)

Fuzzy Improved Interpolative Reasoning Methods for the Sparse Fuzzy Rule

*Tao Wang, Yang Chen and Shaocheng Tong**

*Liaoning University of Technology, China

A1-02:

ISII09-019 (ICIC-EL, Vol.3, No.3(A), pp.325)

Fuzzy Risk Analysis Based on Linguistic Information Fusion

Zheng Pei

Xihua University, China

A1-03:

ISII09-020 (ICIC-EL, Vol.3, No.3(A), pp.331)

Knowledge Radius: A Selective Knowledge Use Strategy for Distance-type Fuzzy Reasoning Method

Tao Shang, Shuo-yu Wang, Jian-wei Liu and Xi-bo Wang*

*BeiHang University, China

A1-04:

ISII09-041 (ICIC-EL, Vol.3, No.3(B), pp.549)

Collaboration-oriented Supplier Selection Method Using TrFN-AHP

Xinghan Wang, Xinguo Ming, Fanbin Kong, Lei Wang and Pengpeng Wang*

*Shanghai Jiao Tong University, China

A1-05:

ISII09-116 (ICIC-EL, Vol.3, No.3(B), pp.695)

Design of Interval Type-2 Fuzzy Logic System Using Sampled Data and Prior Knowledge

Chengdong Li, Jianqiang Yi and Dongbin Zhao*

*Institute of Automation, CAS, China

A1-06:

ISII09-257 (ICIC-EL, Vol.3, No.4(A), pp.1043)

Fuzzy Modeling Based on Self-learning of Adaptive Ellipsoids

Kuei-Sung Weng and Leehter Yao*

*National Taipei University of Technology, Taiwan

September 14 (Monday) 08:40--10:10

B1: Signal Processing

Session Chair: Prof. Wenlong Liu (Dalian University of Technology, China)

B1-01:

ISII09-034 (ICIC-EL, Vol.3, No.3(A), pp.385)

Parameter Estimation of a Quadratic FM Signal based on FRFT

Qiang Qu and Ming-Lu Jin*

*Dalian University of Technology, China

B1-02:

ISII09-043 (ICIC-EL, Vol.3, No.3(A), pp.415)

A Study on the Effects of Spectral Information Encoding in Mandarin Speech Recognition in White Noise

Tian Guan and Qin Gong*

*Tsinghua University, China

B1-03:

ISII09-057 (ICIC-EL, Vol.3, No.3(A), pp.451)

Estimation of the Change Point of a Uniform Process Using the EWMA Chart and MLE

*Yuehjen E. Shao and Chia-Ding Hou**

*Fu Jen Catholic University, Taiwan

B1-04:

ISII09-075 (ICIC-EL, Vol.3, No.3(B), pp.615)

Performance Analysis of the Iterative Decision Method for Optimal Multiuser Detection

Wenlong Liu and Shuxue Ding*

*Dalian University of Technology, China

B1-05:

ISII09-107 (ICIC-EL, Vol.3, No.3(B), pp.675)

Space-time Propagator Method for Joint DOA and Delay Estimation

Fulai Liu, Jinkuan Wang and Ruiyan Du*

*Northeastern University, China

B1-06:

ISII09-233 (ICIC-EL, Vol.3, No.4(A), pp.989)

Development of Nodal Sound Detection Method Using Optical Information Processing (Optical Wave Microphone)

*Yoshito Sonoda, Takashi Samatsu and Motoki Iwahara**

*Tokai University, Japan

September 14 (Monday) 08:40--10:10

C1: Image Processing (I)

Session Chair: Prof. Hyoungseop Kim (Kyushu Institute of Technology, Japan)

Prof. Kehong Yuan (Tsinghua University, China)

C1-01:

ISII09-021 (ICIC-EL, Vol.3, No.3(B), pp.537)

Quantitative Method for Language Description of the Imaging Features of Lung Nodules

Lanxi Xiang, Quansheng Xu, Kehong Yuan, Yanling Bai and Qingshan You*

*Tsinghua University, China

C1-02:

ISII09-022 (ICIC-EL, Vol.3, No.3(A), pp.337)

Impulsive Noise Removal Based on Sequence Multi-scale Top-hat Transformation

Xiangzhi Bai, Fugen Zhou and Ting Jin*

*BeiHang University, China

C1-03:

ISII09-048 (ICIC-EL, Vol.3, No.3(B), pp.555)

3-D Stereoscopic Tour-into-picture by Conversion of a 2-D Image into Stereoscopic Video

*Cheolyong Jo, Jedong Kim and Manbae Kim**

*Kangwon National University, Korea

C1-04:

ISII09-091 (ICIC-EL, Vol.3, No.3(B), pp.645)

An Image Scrambling Method Based on Chaos in Low Intensity Laser-DNA Molecule Systems

Shihua Zhou, Qiang Zhang and Xiaopeng Wei*

*Dalian University, China

C1-05:

ISII09-192 (ICIC-EL, Vol.3, No.4(A), pp.933)

High-accuracy Moving Object Extraction Using Background Subtraction

Yuan Been Chen and Oscal T.-C. Chen*

*Chienkuo Technology University, Taiwan

C1-06:

ISII09-211 (ICIC-EL, Vol.3, No.4(A), pp.957)

Development of Registration Method for Head CTA and MRA Images Based on 2-D Projection Image

Shunsuke Horita, Kouhei Harada, Hyoungseop Kim, Joo Kooi Tan, Seiji Ishikawa and Akiyoshi Yamamoto*

*Kyushu Institute of Technology, Japan

September 14 (Monday) 08:40--10:10

D1: Robotics

Session Chair: Prof. Masanori Takahashi (Tokai University, Japan)

D1-01:

ISII09-027 (ICIC-EL, Vol.3, No.3(A), pp.355)

Mechanic Performance Indices Analysis for 3-SPS+RRS+PS Mechanism

*Xiong Du**, *Yulin Yang*, *Xijuan Guo* and *Xiping Liu*

*Yanshan University, China

D1-02:

ISII09-063 (ICIC-EL, Vol.3, No.4(A), pp.877)

A Novel Path Planning Algorithm for Mobile Robots Based on Cloud Model

*Xuefeng Dai**, *Xiaomei Ning* and *Yan Shi*

*Qiqihar University, China

D1-03:

ISII09-085 (ICIC-EL, Vol.3, No.3(A), pp.477)

Image Feature Initialization for SLAM and Moving Object Detection

*Yin-Tien Wang**, *Ming-Chun Lin*, *Rung-Chi Ju* and *Yu-Wen Huang*

*Tamkang University, Taiwan

D1-04:

ISII09-139 (ICIC-EL, Vol.3, No.3(B), pp.793)

Analysis for Dynamics Performance Indices of 3-Rss+Ps+Rrs Parallel Mechanism

XiJuan Guo, *Qiang Zhang**, *Xiong Du* and *YuLin Yang*

*Yanshan University, China

D1-05:

ISII09-190 (ICIC-EL, Vol.3, No.3(B), pp.865)

Autonomous Mobile Robot Navigation Method Based on Environmental Visual Features

*Fairul Azni Jafar**, *Yasunori Suzuki*, *Yuki Tateno*, *Kazutaka Yokota* and *Takeshi Matsuoka*

*Utsunomiya University, Japan

D1-06:

ISII09-308 (ICIC-EL, Vol.3, No.4(B), pp.1309)

Fault Diagnosis of Joint-sensors in Parallel Manipulators

Masanori Takahashi, *Taro Takagi** and *Yuta Miyawaki*

*Tokai University, Japan

September 14 (Monday) 10:30--11:45

A2: Fuzzy Logic and Applied Statistics

Session Chair: Prof. Feng-Tse Lin (Chinese Culture University, Taiwan)

A2-01:

ISII09-IS05-01 (ICIC-EL, Vol.3, No.4(B), pp.1453)

Group Sequential Analysis of Incomplete Longitudinal Ordinal Data

*Yi-Ju Chen**, *Kuo-Chin Lin* and *Jian-Jhih Lin*

*Tamkang University, Taiwan

A2-02:

ISII09-IS05-03 (ICIC-EL, Vol.3, No.4(B), pp.1459)

Parameter Estimations for the Burr Type XII Distribution under Progressive Type II Censoring

Y. L. Lio, *Tzong-Ru Tsai** and *Jyun-You Chiang*

*Tamkang University, Taiwan

A2-03:

ISII09-IS05-04 (ICIC-EL, Vol.3, No.4(B), pp.1465)

Constraint Scheduling Problem with Imprecise Processing Times Using Fuzzy Numbers

Feng-Tse Lin

Chinese Culture University, Taiwan

A2-04:

ISII09-IS05-05 (ICIC-EL, Vol.3, No.4(B), pp.1471)

Evaluation of the Mean Life of LEDs under the Accelerated Degradation Test

Tzong-Ru Tsai, *Chin-Wei Lin**, *Chiu-Ling Chen* and *Sheng-Bang Huang*

*Industrial Technology Research Institute, Taiwan

A2-05:

ISII09-289 (ICIC-EL, Vol.3, No.4(A), pp.1119)

Impulse Noise Removal Using Robust Statistical Estimators and Fuzzy Logic

Ayyaz Hussain, *M. Arfan Jaffar**, *Fauzia Jabeen* and *Anwar M. Mirza*

*FAST National University of Computer & Emerging Sciences, Pakistan

September 14 (Monday) 10:30--11:45

B2: Data Mining

Session Chair: Prof. Jingfeng Guo (Yanshan University, China)

B2-01:

ISII09-003 (ICIC-EL, Vol.3, No.3(A), pp.277)

Studying on the Pattern of Globalized Customer Retention

Tao Zhang, Xu Xu and Yun Le*

*Tongji University, China

B2-02:

ISII09-083 (ICIC-EL, Vol.3, No.3(B), pp.639)

An Advanced Algorithm of Frequent Subgraph Mining Based on ADI

Xiaohong Zou, Li Zhao, Jingfeng Guo and Xiao Chen*

*Yanshan University, China

B2-03:

ISII09-119 (ICIC-EL, Vol.3, No.4(B), pp.1245)

Subspace Clustering Based on Linear-pattern Similarity

*Jingfeng Guo and Qian Ma**

*Yanshan University, China

B2-04:

ISII09-215 (ICIC-EL, Vol.3, No.4(A), pp.969)

Continuous Fastest Path Planning in Road Networks by Mining Real-time Traffic Event Information

Eric Hsueh-Chan Lu, Chi-Wei Huang and Vincent S. Tseng*

*National Cheng-Kung University, Taiwan

B2-05:

ISII09-313 (ICIC-EL, Vol.3, No.4(B), pp.1327)

A Three-scan Mining Algorithm for High On-shelf Utility Itemsets

Guo-Cheng Lan, Tzung-Pei Hong and Vincent S. Tseng*

*National Cheng-Kung University, Taiwan

September 14 (Monday) 10:30--11:45

C2: Classification

Session Chair(s): Prof. Wei Liu (Dalian Maritime University, China)

Prof. Hongyu Yang (Civil Aviation University of China, China)

C2-01:

ISII09-006 (ICIC-EL, Vol.3, No.3(A), pp289.)

Unsupervised Flexible Speed Gait Real-time Classification

Jun Zhang and Zhijing Liu*

*Xidian University, China

C2-02:

ISII09-044 (ICIC-EL, Vol.3, No.3(A), pp.421)

FA and SVDFRM Base Network Detection Classification Model

*Lixia Xie and Hongyu Yang**

*Civil Aviation University of China, China

C2-03:

ISII09-212 (ICIC-EL, Vol.3, No.4(A), pp.963)

Automatic Classification of GGO Regions Employing Linear Discriminant Function from the Thoracic CT Images

Seiji Shiozawa, Hyoungseop Kim, Joo Kooi Tan and Seiji Ishikawa*

*Kyushu Institute of Technology, Japan

C2-04:

ISII09-238 (ICIC-EL, Vol.3, No.4(A), pp.1001)

An Improved SVM Classifier

*Hong Gao and Wei Liu**

*Dalian Maritime University, China

C2-05:

ISII09-316 (ICIC-EL, Vol.3, No.4(B), pp.1339)

A Watermelon Maturity Non-destructive Detection Method Based on Acoustic Response

Guan-Dong Gao, Gui-Fa Teng, Ke Xiao, Jian-Bin Ma, Xiao-Ru Zhang and Yu-Xin Zhang*

*Agricultural University of Hebei, China

September 14 (Monday) 10:30--11:45

D2: Intelligent Robotic Control

Session Chair(s): Prof. Juhng-Perng Su, Prof. Kuo-Lan Su (National Yunlin University of Science & Technology, Taiwan)

D2-01:

ISII09-IS01-01 (ICIC-EL, Vol.3, No.4(A), pp.1149)

Implementation of SoPC Based ZigBee Wireless Technology in Voice-enabled Robots

Chun-Chieh Wang, Kuo-Lan Su and Kuo-Hsien Hsia*

*Chienkuo Technology University, Taiwan

D2-02:

ISII09-IS01-02 (ICIC-EL, Vol.3, No.4(A), pp.1155)

Design and Implementation of a Turning Direction Mechanism and Wireless Remote Control for a Quadruped Walking Horse Carriage

Hong-Ming Chen, Yi-Ping Shyu and Gui-Sen Shyu*

*Chienkuo Technology University, Taiwan

D2-03:

ISII09-IS01-03 (ICIC-EL, Vol.3, No.4(A), pp.1161)

Camera Position Estimation from Image by Neural Network

Kuo-Hsien Hsia, Shao-Fan Lien, Chung-Chieh Wang, Ting-En Lee and Juhng-Perng Su*

*Far East University, Taiwan

D2-04:

ISII09-IS01-04 (ICIC-EL, Vol.3, No.4(A), pp.1167)

Module Based Security System Applying in Intelligent Home

Kuo-Lan Su, Sheng-Ven Shiau and Chun-Chieh Wang*

*National Yunlin University of Science & Technology, Taiwan

D2-05:

ISII09-IS01-05 (ICIC-EL, Vol.3, No.4(A), pp.1173)

Multi-objective Optimization Using Fuzzy Logic for an Alpha-Beta Filter

Ting-En Lee, Juhng-Perng Su, Ker-Wei Yu and Kuo-Hsien Hsia*

*National Yunlin University of Science & Technology, Taiwan

September 14 (Monday) 13:30--14:30

Keynote Speech

An Oscillator Network with High-Designability and Its Application to Gait Generation for Multi-legged Locomotion

Prof. Takeshi Yamakawa, Kyushu Institute of Technology, Japan

Chair: Prof. Tzung-Pei Hong (National University of Kaohsiung, Taiwan)

September 14 (Monday) 14:50--16:20

A3: Neural Networks I

Session Chair: Prof. Jianping Yu (Yanshan University, China)

A3-01:

ISII09-017 (ICIC-EL, Vol.3, No.3(A), pp.319)

An Integrated Neural Networks and SPC Approach to Identify the Starting Time of a Process Disturbance

Yuehjen E. Shao

Fu Jen Catholic University, Taiwan

A3-02:

ISII09-037 (ICIC-EL, Vol.3, No.3(A), pp.391)

An Investigation of Contributions of Different Linguistic Features to the WSD of English Modal Verb *MAY* by BP Neural Network

Jianping Yu, Hongxue Dong, Jilin Fu and Tana Bai*

*Yanshan University, China

A3-03:

ISII09-136 (ICIC-EL, Vol.3, No.3(B), pp.775)

Application of Back-propagation Neural Network for E-Commerce Customers Patterning

Pao-Hua Chou, Chao-Hsing Hsu, Chi-Fei Wu, Pi-Hsiang Li and Menq-Jiun Wu*

*National Changhua University of Education, Taiwan

A3-04:

ISII09-282 (ICIC-EL, Vol.3, No.4(A), pp.1093)

A Parallel Algorithm of Handwritten Digits Recognition Based on Artificial Neural Network with GPU-acceleration

Jianming Li, Xiaoxue Han, Xiangpei Hu and Hongsong Tan*

*Dalian University of Technology, China

A3-05:

ISII09-283 (ICIC-EL, Vol.3, No.4(A), pp.1101)

A Novel Fourier Based Solar Radiation Model

Fatih Onur Hocaoglu, Mehmet Fidan and Omer Nezh Gerek*

*Anadolu University, Turkey

A3-06:

ISII09-290 (ICIC-EL, Vol.3, No.4(A), pp.1125)

Neural and Mathematical Modeling Approaches for Hourly Long Term Load Forecasting

Ummuhan Basaran Filik, Omer Nezh Gerek, Mehmet Kurban*

*Anadolu University, Turkey

September 14 (Monday) 14:50--16:20

B3: Software Design and Applications

Session Chair: Prof. Dongsoo Kim (Soongsil University, Korea)

B3-01:

ISII09-023 (ICIC-EL, Vol.3, No.3(A), pp.343)

Process Improvement Based on Case-based Reasoning

*Dongsoo Kim**, *Namhun Lee*, *Taesoo Lim*, *Minsoo Kim* and *Suk-ho Kang*

*Soongsil University, Korea

B3-02:

ISII09-062 (ICIC-EL, Vol.3, No.3(B), pp.585)

A Practical Voting Scheme Using One Server with a Secure Coprocessor

Chun-Hua Chen

Chienkuo Technology University, Taiwan

B3-03:

ISII09-074 (ICIC-EL, Vol.3, No.3(B), pp.607)

Research on Software Reliability Modeling Based on Stochastic Petri Nets and Module Level Software Rejuvenation

*Yongshan Liu**, *Chuancheng Wei* and *Shiwei Gao*

*Yanshan University, China

B3-04:

ISII09-134 (ICIC-EL, Vol.3, No.3(B), pp.757)

The Algorithms for Collaborative ``Course Concept Map" Decision Making in Learning Object Recommenders

*Noppamas Pukkhem** and *Wiwat Vatanawood*

*Chulalongkorn University, Thailand

B3-05:

ISII09-163 (ICIC-EL, Vol.3, No.3(A), pp.525)

Object-oriented Design Metrics as Early Quality Indicators of Faulty Classes and Components

Sai Peck Lee and *Chuan Ho Loh**

*University of Malaya, Malaysia

B3-06:

ISII09-281 (ICIC-EL, Vol.3, No.4(A), pp.1087)

A Method for Analyzing Fault Sequence Feature Based on Clustering

*Jiadong Ren**, *Changzhen Hu*, *Kunsheng Wang*, *Lining Li* and *Yanpeng Zhang*

*Yanshan University, China

September 14 (Monday) 14:50--16:20

C3: Multimedia Systems

Session Chair: Prof. Tian Song (Tokushima University, Japan)

C3-01:

ISII09-038 (ICIC-EL, Vol.3, No.3(A), pp.397)

A Novel Reversible Watermarking Algorithm Based on Wavelet Lifting Scheme

*Qiaolun Gu and Tiegang Gao**

*Nankai University, China

C3-02:

ISII09-073 (ICIC-EL, Vol.3, No.3(B), pp.599)

Open Shape Model Based on Absolute Frame in Three-dimensional Space

Yongshan Liu, Shiwei Gao, Dechen Wang and Chuancheng Wei*

*Yanshan University, China

C3-03:

ISII09-124 (ICIC-EL, Vol.3, No.3(B), pp.719)

Degree Reduction of B-Spline Curves and Surfaces

Rui Zhang, Caiming Zhang, Huijian Han and Shanshan Gao*

*Shandong Economic University, China

C3-04:ISII09-307 (ICIC-EL, Vol.3, No.4(B), pp.1305)

Performance Evaluation of a Novel Caching Algorithm for Scalable Image Contents

Zhou Su, Zhihua Zhang and Yu Chen*

*Waseda University, Japan

C3-05:ISII09-322 (ICIC-EL, Vol.3, No.4(A), pp.1179)

Low Complexity Mode Selection Method for Hierarchical B-picture of H.264/SVC

Takaaki Hamamoto, Takafumi Katayama, Tian Song and Takashi Shimamoto*

*Tokushima University, Japan

C3-06:

ISII09-331 (ICIC-EL, Vol.3, No.4(B), pp.1429)

A Classification Continuous Music Emotion Modeling Method Research

Jijun Wang and Ning Chen*

*Dalian University, China

September 14 (Monday) 14:50--16:20

D3: Advanced Control (I)

Session Chair: Prof. Yuanqing Xia (Beijing Institute of Technology, China)

D3-01:

ISII09-001 (ICIC-EL, Vol.3, No.3(A), pp.271)

H_2 control for Networked Control Systems with Markovian Data Losses and Delays

*Yuanqing Xia**, *Zheng Zhu* and *Magdi S. Mahmoud*

*Beijing Institute of Technology, China

D3-02:

ISII09-005 (ICIC-EL, Vol.3, No.3(A), pp.283)

Sliding Mode Control Strategies for the Hyperchaotic MCK System

*Wei Xiang** and *Fangqi Chen*

*Nanjing University of Aeronautics and Astronautics, China

D3-03:

ISII09-033 (ICIC-EL, Vol.3, No.3(A), pp.379)

Robustness and Reliability of Decentralized Stochastically-perturbed Computer Controlled Systems with Multiple Time-varying Delays

*Kai-Chao Yao** and *Fu-Quan Cai*

*National Changhua University of Education, Taiwan

D3-04:ISII09-054 (ICIC-EL, Vol.3, No.3(B), pp.567)

Synchronization of Delayed Complex Dynamical Networks Using Active Control

*Zhengquan Yang**, *Qing Zhang*, *Zengqiang Chen* and *Zuolian Jiang*

*Civil Aviation University of China, China

D3-05:ISII09-126 (ICIC-EL, Vol.3, No.3(B), pp.727)

Adaptive Controller Design and Implementation for a BLDC Motor Drive System

*Der-Fa Chen**, *Chien-Yu Lu*, *Wen-Jye Shyr* and *Kai-Chao Yao*

*National Changhua University of Education, Taiwan

D3-06:

ISII09-137 (ICIC-EL, Vol.3, No.3(A), pp.507)

A Design Method for Control System to Attenuate Output Periodic Disturbances Using Disturbance Observers for Time-delay Plants

*Kou Yamada**, *Da Zhi Gong*, *Yoshinori Ando*, *Takaaki Hagiwara*, *Iwanori Murakami*, *Yoichi Imai* and *Masahiko Kobayashi*

*Gunma University, Japan

September 14 (Monday) 16:40--18:25

A4: Innovative Computing and Its Applications

**Session Chair(s): Prof. Huey-Ming Lee (Chinese Culture University, Taiwan)
Prof. Lily Lin (China University of Technology, Taiwan)**

A4-01:

ISII09-IS02-01 (ICIC-EL, Vol.3, No.4(B), pp.1185)

Using Signed Distance for Analyzing Sampling Survey Assessment Answered with Interval Value

Lily Lin and Huey-Ming Lee*

*China University of Technology, Taiwan

A4-02:

ISII09-IS02-02 (ICIC-EL, Vol.3, No.4(B), pp.1191)

Performance of Grid Resource Allocation Model

Huey-Ming Lee, Jin-Shieh Su and Chia-Hsien Chung*

*Chinese Culture University, Taiwan

A4-03:

ISII09-IS02-03 (ICIC-EL, Vol.3, No.4(B), pp.1197)

Fuzzy Decision Making Performance Evaluation for International Joint Venture

Teng-San Shieh, Jin-Shieh Su and Huey-Ming Lee*

*Chinese Culture University, Taiwan

A4-04:

ISII09-IS02-04 (ICIC-EL, Vol.3, No.4(B), pp.1203)

The Determinants of Entrepreneurship

Ming-Wen Hu and Ku-Hsieh Chen*

*Tamkang University, Taiwan

A4-05:

ISII09-IS02-05 (ICIC-EL, Vol.3, No.4(B), pp.1209)

A Computer Maintenance Expert System Based on Web Services

Chung C. Chang and Li-Wei Sung*

*Chinese Culture University, Taiwan

A4-06:

ISII09-IS02-06 (ICIC-EL, Vol.3, No.4(B), pp.1215)

An Improvement to Kim-Chung's Authentication Scheme

Wen-Gong Shieh and Mei-Tzu Wang*

*Chinese Culture University, Taiwan

A4-07:

ISII09-IS02-07 (ICIC-EL, Vol.3, No.4(B), pp.1221)

Using Association Analysis and Social Network Analysis to Discover Valuable Product Function

Heng-Li Yang and Hsiao-Fang Yang*

*National Cheng-Chi University, Taiwan

September 14 (Monday) 16:40--18:25

B4: Circuit System

Session Chairs: Prof. Kei Eguchi (Shizuoka University, Japan), Dr. Amphawan Julsereewong (King Mongkut's Institute of Technology Ladkrabang, Thailand)

B4-01:

ISII09-031 (ICIC-EL, Vol.3, No.3(A), pp.367)

Web-based Remote Monitoring and Control System for Mechatronics Module

Wen-Jye Shyr, Kai-Chao Yao, Der-Fa Chen and Chien-Yu Lu*

*National Changhua University of Education, Taiwan

B4-02:

ISII09-032 (ICIC-EL, Vol.3, No.3(A), pp.373)

Establishment of New Electro-encephalogram Measurement Technology by Integrating Virtual Instrument

Kai-Chao Yao, Der-Fa Chen, Chien-Yu Lu and Wen-Jye Shyr*

*National Changhua University of Education, Taiwan

B4-03:

ISII09-141 (ICIC-EL, Vol.3, No.3(B), pp.799)

A Control Algorithm of Maximum Power Point Track for a Photovoltaic System

*Yu-Kuei Chiu, *Yi-Nung Chung, Hao-Ren Wang, Chin- Chung Yu and Jong-Zong Chen*

*National Changhua University of Education, Taiwan

B4-04:

ISII09-181 (ICIC-EL, Vol.3, No.3(A), pp.531)

Design of a Multiple-input Parallel SC DC-DC Converter and Its Efficiency Estimation Method

Kei Eguchi, Tatsuya Sugimura, Sawai Pongswatd, Kitti Tirasesth and Hirofumi Sasaki*

*Shizuoka University, Japan

B4-05:

ISII09-241 (ICIC-EL, Vol.3, No.4(A), pp.1007)

A Low Jitter of Multi-phase Clock Dividing Type Multiplier Using Arithmetic Circuit

Takanori Hirose, Kuniaki Fujimoto, Hirofumi Sasaki and Mitsutoshi Yahara*

*Tokai University, Japan

B4-06:

ISII09-285 (ICIC-EL, Vol.3, No.4(A), pp.1107)

Chaos Control of Boost Converters

Fei-Hu Hsieh, Po-Lun Chang, Hen-Kung Wang and Ying-Kuei Yang*

*Lunghwa University of Science and Technology, Taiwan

B4-07:

ISII09-301 (ICIC-EL, Vol.3, No.4(A), pp.1137)

Dual Slope ADC Using Non-inverting Controlled Bootstrap Circuit

Amphawan Julsereewong, Sawai Pongswatd, Hirofumi Sasaki, Kuniaki Fujimoto and Yan Shi*

*King Mongkut's Institute of Technology Ladkrabang, Thailand

September 14 (Monday) 16:40--18:25

C4: Image Processing (II)

Session Chair: Prof. Shinfeng D. Lin (National Dong Hwa University, Taiwan)

C4-01:

ISII09-078 (ICIC-EL, Vol.3, No.3(B), pp.621)

Image Enhancement Based on the Shearlet Transform

*Jingchang Pan**, *Caiming Zhang* and *Qiang Guo*

*Shandong University, China

C4-02:

ISII09-104 (ICIC-EL, Vol.3, No.3(B), pp.669)

An Algorithm for Enlarged Image Enhancement

*Yunfeng Zhang**, *Caiming Zhang*, *Jing Chi* and *Rui Zhang*

*Shandong Economic University, China

C4-03:

ISII09-132 (ICIC-EL, Vol.3, No.3(B), pp.751)

Shearlet-based Image Denoising Using a Local Multivariate Prior Model

*Qiang Guo** and *Songnian Yu*

*Shanghai University, China

C4-04:

ISII09-144 (ICIC-EL, Vol.3, No.3(B), pp.813)

Applying Self-constructing Clustering to Color Image Quantization

Yung-Shen Lin, *Min-Zong Rau* and *Shie-Jue Lee**

*National Sun Yat-Sen University, Taiwan

C4-05:

ISII09-189 (ICIC-EL, Vol.3, No.4(A), pp.921)

Automatic Detection of Abnormal Regions Using Gaussian Mixture Model

Zhen Tian, *Zouji Ying* and *Kehong Yuan**

*Tsinghua University, China

C4-06:

ISII09-191 (ICIC-EL, Vol.3, No.4(A), pp.927)

Combining Scale Invariant Feature Transform with Principal Component Analysis in Face Recognition

*Shinfeng D. Lin**, *Jia-Hong Lin* and *Cheng-Chin Chiang*

*National Dong Hwa University, Taiwan

C4-07:

ISII09-303 (ICIC-EL, Vol.3, No.4(A), pp.1143)

3D Lung Nodule Detection and Classification

*M. Arfan Jaffar**, *Ayyaz Hussain*, *Fauzia Jabeen* and *Anwar M. Mirza*

*FAST National University of Computer & Emerging Sciences, Pakistan

September 14 (Monday) 16:40--18:25

D4: Advanced Control (II)

Session Chair: Prof. Kou Yamada (Gunma University, Japan)

D4-01:

ISII09-010 (ICIC-EL, Vol.3, No.3(A), pp.301)

Convergence Analysis about Improved Model-free Adaptive Controller Based on Multi-innovation Theory

Pinle Qin, Xie Han and Yan Lin*

*North University of China, China

D4-02:

ISII09-056 (ICIC-EL, Vol.3, No.3(A), pp.445)

Adaptive Robust Sensorless Position Control of Integrated Moving Coil Motor and Flexure Mechanism

Cheng-Yi Chen and Marvin H.-M. Cheng*

*Cheng Shiu University, Taiwan

D4-03:

ISII09-101 (ICIC-EL, Vol.3, No.3(B), pp.651)

New Robust Passive Stability Criteria for Uncertain Singularly Markov Jump Systems with Time Delays

*Jiqing Qiu and Kunfeng Lu**

*Hebei University of Science and Technology, China

D4-04:

ISII09-103 (ICIC-EL, Vol.3, No.3(B), pp.663)

Generation of Stable Limit Circles for Linear Systems via Switching Linear Controllers

Xiangze Lin, Shihua Li, Yun Zou and Yanping Qian*

*Nanjing Agricultural University, China

D4-05:

ISII09-115 (ICIC-EL, Vol.3, No.3(B), pp.689)

Control Allocation Based Reconfigurable Flight Control System Design

Huidong Wang, Zirui Yu, Jianqiang Yi and Guoliang Fan*

*Institute of Automation, CAS, China

D4-06:

ISII09-138 (ICIC-EL, Vol.3, No.3(B), pp.787)

A Design Method for Two-degree-of-freedom Simple Repetitive Control Systems

Kou Yamada, Masahiko Kobayashi, Takaaki Hagiwara, Yoshinori Ando*

Iwanori Murakami and Tatsuya Sakanushi

*Gunma University, Japan

D4-07:

ISII09-311 (ICIC-EL, Vol.3, No.4(B), pp.1315)

Development of an Intelligent Voltage Control System for Korean Power Systems

Heungjae Lee, Chanho Lim, Soogil Lee, Kyundo Kim, Taekyun Kim, Jeonghoon Shin and Soochul Nam*

*University of Kwangwoon, Korea

September 15 (Tuesday) 08:40--10:10

A5: Neural Networks (II)

Session Chair: Prof. Hiroshi Wakuya (Saga University, Japan)

A5-01:

ISII09-030 (ICIC-EL, Vol.3, No.3(B), pp.543)

Induction Motor Bearing Failure Diagnosis with ANN and Hybrid Networks Model

Abd Kadir Mahamad and Takashi Hiyama*

*University Tun Hussein Onn Malaysia, Malaysia

A5-02:

ISII09-120 (ICIC-EL, Vol.3, No.3(B), pp.701)

Evolutionary Algorithm-based RBF Neural Network for Oil Price Forecasting

Ren-Jieh Kuo, Tung-Lai Hu and Zhen-Yao Chen*

*National Taiwan University of Science and Technology

A5-03:

ISII09-160 (ICIC-EL, Vol.3, No.3(B), pp.847)

Application of Fuzzy Neural Network for FOG Zero Point Drift Modeling

Xiyuan Chen, Chong Shen and Changyan Xu*

*Southeast University

A5-04:

ISII09-175 (ICIC-EL, Vol.3, No.4(B), pp.1263)

Prediction of Compressive Yield Load for Metal Hollow Sphere with Crack Based on Artificial Neural Network

Changjun He, Huijian Li, Bing Wang, Wei Yu and Xi Liang*

*Yanshan University, China

A5-05:

ISII09-268 (ICIC-EL, Vol.3, No.4(B), pp.1381)

Fraction-applicable Self-Organizing Map

Hiroshi Wakuya and Suguru Nagano*

*Saga University, Japan

A5-06:

ISII09-319 (ICIC-EL, Vol.3, No.4(B), pp.1345)

Visualization for Fuzzy Retrieval Using Self-organizing Maps

Takashi Samatsu, Kie Tachikawa and Yan Shi*

*Tokai University, Japan

September 15 (Tuesday) 08:40--10:10

B5: Biological Computing

Session Chair: Prof. Xuping Wang (Dalian University of Technology, China)

B5-01:

ISII09-028 (ICIC-EL, Vol.3, No.3(A), pp.361)

The Railway Transportation Planning Problem and Its Genetic Algorithm Based Tabu Search Algorithm

Lixing Yang and Keping Li*

*Beijing Jiaotong University, China

B5-02:

ISII09-145 (ICIC-EL, Vol.3, No.4(A), pp.883)

Disruption Management of Urgency Vehicle Routing Problem with Fuzzy Time Window

Xuping Wang, Kai Zhang and Deli Yang*

*Dalian University of Technology, China

B5-03:

ISII09-166 (ICIC-EL, Vol.3, No.4(A), pp.897)

A New Method to Identify Fault Current and Inrush Current on Transformer by Jiles-Atherton Model

Sy-Ruen Huang, Chin-Wen Liao, Hong-Tai Chen and Chueh-Cheng Wu*

*Feng Chia University, Taiwan

B5-04:

ISII09-243 (ICIC-EL, Vol.3, No.4(A), pp.1013)

Constructing Optimized Bioinformatics Parallel Subtractor and Divider with Basic Logic Operations in the Adleman-Lipton Model

Michael Shan-Hui Ho, Kun-Yu Hung, Le-Pong Chin and Chaochang Chiu*

*Ming Chuan University, Taiwan

B5-05:

ISII09-266 (ICIC-EL, Vol.3, No.4(A), pp.1055)

Solving a Timetabling Problem Using Distributed Genetic Algorithm

Yancong Su, Michihiro Namba and Hajime Murao*

*Kobe University, Japan

B5-06:

ISII09-269 (ICIC-EL, Vol.3, No.4(A), pp.1067)

Single Stranded DNA and Primers for Boolean Matrix Multiplication with DNA Computing

Nordiana Rajae, Haruka Aoyagi and Osamu Ono*

*Meiji University, Japan

September 15 (Tuesday) 08:40--10:10

C5: Ad Hoc and Wireless Sensor Network

Session Chair: Prof. Takuo Nakashima (Tokai University, Japan)

C5-01:

ISII09-142 (ICIC-EL, Vol.3, No.3(A), pp.519)

An Effective Allocation Scheme for Sink Nodes in Wireless Sensor Networks Using Suppression PSO

Masaki Yoshimura, Hidehiro Nakano, Akihide Utani, Arata Miyauchi, Hisao Yamamoto*

*Tokyo City University, Japan

C5-02:

ISII09-143 (ICIC-EL, Vol.3, No.3(B), pp.805)

An Efficient Data Gathering Scheme Using a Chaotic PCNN in Wireless Sensor Networks with Multiple Sink Nodes

Hidehiro Nakano, Akihide Utani, Arata Miyauchi and Hisao Yamamoto*

*Tokyo City University, Japan

C5-03:

ISII09-151 (ICIC-EL, Vol.3, No.3(B), pp.825)

Adaptive and Efficient Routing Algorithm for Mobile Ad-Hoc Sensor Networks

Kakeru Matsumoto, Akihide Utani and Hisao Yamamoto*

*Tokyo City University, Japan

C5-04:

ISII09-152 (ICIC-EL, Vol.3, No.3(B), pp.833)

Efficient Flooding Method Using Discrete Particle Swarm Optimization for Long-term Operation of Sensor Networks

Junya Nagashima, Akihide Utani and Hisao Yamamoto*

*Tokyo City University, Japan

C5-05:

ISII09-174 (ICIC-EL, Vol.3, No.4(A), pp.909)

KAdHoc: A DHT Substrate for MANET Based on the XOR Metric

Wei Kuang Lai, Mu-Lung Weng, Shih-Hao Lo and Chin-Shiuh Shieh*

*National Sun Yat-sen University, Taiwan

C5-06:

ISII09-234 (ICIC-EL, Vol.3, No.4(A), pp.995)

Propagation Features for the AODV Protocol under Different Mobility Models

Natsuru Yamamura and Takuo Nakashima*

*Tokai University, Japan

September 15 (Tuesday) 08:40--10:10

D5: Fuzzy Control (I)

Session Chair: Prof. Jium-Ming Lin (Chung-Hua University, Taiwan)

D5-01:

ISII09-042 (ICIC-EL, Vol.3, No.3(A), pp.409)

Fuzzy Neural Network Control in Main Steam Temperature System

*Wei Xue and Yanling Guo**

*Tianjin University of Science and Technology, China

D5-02:

ISII09-069 (ICIC-EL, Vol.3, No.3(B), pp.593)

Decentralized Control of Spatially Interconnected Affine Fuzzy Systems with Application to a Morphing Airfoil

Zhen He and Yuping Lu*

*Nanjing University of Aeronautics and Astronautics, China

D5-03:

ISII09-140 (ICIC-EL, Vol.3, No.3(A), pp.513)

Improving Fuzzy Control of Robot Manipulators by Increasing Scaling Factors

Mohammad Mehdi Fateh and Azita Azarfar*

*Shahrood University of Technology, Iran

D5-04:

ISII09-159 (ICIC-EL, Vol.3, No.3(B), pp.841)

A New GPS/SINS Integrated Navigation Fusion Algorithm Based on RBF Neural Network and Kalman Filtering

Xiyuan Chen, Jing Yu, Mingwu Gu and Xinhua Tang*

*Southeast University, China

D5-05:

ISII09-209 (ICIC-EL, Vol.3, No.4(A), pp.951)

Intelligent Fuzzy Control of a Scanning Probe Microscope System Design

*Po-Kuang Chang and Jium-Ming Lin**

*Chung-Hua University, Taiwan

D5-06:

ISII09-326 (ICIC-EL, Vol.3, No.4(B), pp.1405)

Further Results on T-S Fuzzy Model with Time Delay

Hugang Han and Yanchuan Liu*

*Prefectural University of Hiroshima, Japan

September 15 (Tuesday) 10:30--12:00

A6: Fuzzy Logic (II)

Session Chair: Prof. Kaiqi Zou (Dalian University, China)

A6-01:

ISII09-058 (ICIC-EL, Vol.3, No.3(B), pp.573)

Analysis for Perturbation of Fuzzy Systems Modeling

Wen-Yan Song, De-Gang Wang and Wei-Guo Wang*

*Dongbei University of Finance and Economics, China

A6-02:

ISII09-112 (ICIC-EL, Vol.3, No.3(B), pp.683)

An Evaluation of Investment Risk for Container Port Wharf Using Fuzzy Multiple-criteria Decision-making Approach

Chien Chang Chou

Kaohsiung Marine University, Taiwan

A6-03:ISII09-121 (ICIC-EL, Vol.3, No.3(B), pp.707)

Global Existence of Solutions to Fuzzy Volterra Integral Eequations

Dongkai Zhang, Wenli Feng and Jiqing Qiu*

*Shijiazhuang University, China

A6-04:ISII09-129 (ICIC-EL, Vol.3, No.3(B), pp.733)

Fuzzy Set Based Image Retrieval by Relationship of Objects

Hui Liu and Yun-feng Zhang*

*Shandong Economic University, China

A6-05:

ISII09-323 (ICIC-EL, Vol.3, No.4(B), pp.1393)

Co-integration Analysis Based on Fuzzy Variables in Econometrics

Kaiqi Zou, Xiaoyue Zhou and Ying Liu*

*Dalian University, China

September 15 (Tuesday) 10:30--12:00

B6: Management Science (I)

Session Chair: Prof. Lindu Zhao (Southeast University, China)

B6-01:

ISII09-133 (ICIC-EL, Vol.3, No.4(B), pp.1251)

Food Traceability System Based on Iris Recognition Middleware

*Lindu Zhao**, *Shengnan Sun*, *Qiang Kong* and *Xiaoqiang Wang*

*Southeast University, China

B6-02:

ISII09-246 (ICIC-EL, Vol.3, No.4(A), pp.1019)

Research on Effective Provision of Local Information Goods

*Yunfu Hu**, *Zhengkui Lin*, *Lin Ma* and *Deli Yang*

*Dalian University, China

B6-03:

ISII09-272 (ICIC-EL, Vol.3, No.4(B), pp.1299)

An Isochrone-based Decision Method for Real-time Vehicle Rerouting Problem with Immediate Requests in Urban Distribution

*Yan Fang**, *Xiangpei Hu*, *Lijun Sun* and *Qiulei Ding*

*Dalian University of Technology, China

B6-04:

ISII09-IS03-08 (ICIC-EL, Vol.3, No.4(B), pp.1351)

Knowledge Sharing under the Pattern of Master-apprentice under the Environment of Incomplete Information

*Mingzheng Wang**, *Jinchao Zhang* and *Wenli Li*

*Dalian University of Technology, China

B6-05:

ISII09-IS03-09 (ICIC-EL, Vol.3, No.4(B), pp.1359)

Research on Consumers' Cross-site Transfer Behavior Based on Complex Network Theory

Yezheng Liu, *Jiekui Zhang** and *Shanlin Yang*

*Hefei University of Technology, China

B6-06:

ISII09-204 (ICIC-EL, Vol.3, No.4(B), pp.1269)

Harmony Search Algorithm for Emission Considering Economic Load Dispatch Problems in Power Systems

*Sang-Bong Rhee**, *Kyu-Ho Kim* and *Chul-Hwan Kim*

*Sungkyunkwan University, Korea

September 15 (Tuesday) 10:30--12:00

C6: Nature Language Analysis

Session Chair: Dr. Zhifang Sui (Peking University, China, China)

C6-01:

ISII09-036 (ICIC-EL, Vol.3, No.4(B), pp.1227)

Research on Ancient Literature Corpus Creation and Development of Chinese Traditional Medicine

Yao Liu and Yazhen Zhao*

*Institute of Scientific and Technical Information of China, China

C6-02:

ISII09-051 (ICIC-EL, Vol.3, No.3(B), pp.561)

PNRC: Personalized News Recommendation Mechanism Based on Collaborative Filtering in Unstructured P2P Networks

Huiying Zhang, Chunxia Yin, Jian Liu and Fuyong Yuan*

*Agricultural University of Hebei, China

C6-03:

ISII09-052 (ICIC-EL, Vol.3, No.4(B), pp.1233)

Extracting Hyponymy Relation between Chinese Terms Based on Term Types' Commonality and Sequential Patterns

Zhifang Sui, Yao Liu and Yongwei Hu*

*Peking University, China

C6-04:

ISII09-095 (ICIC-EL, Vol.3, No.3(A), pp.483)

Extraction of Web Site Structure Based on Arc Ranking Methods

Taesoo Lim, Wookey Lee, Bum Hwan Park and Dongsoo Kim*

*Sungkyul University, Korea

C6-05:

ISII09-330 (ICIC-EL, Vol.3, No.4(B), pp.1423)

Improved CPD Feature Selection Research in Text Categorization

Wenyuan Liu, Lin Chi and Baowen Wang*

*Yanshan University, China

September 15 (Tuesday) 10:30--12:00

D6: Fuzzy Control (II)

Session Chair: Prof. Kai-Chao Yao (National Changhua University of Education, Taiwan)

D6-01:

ISII09-016 (ICIC-EL, Vol.3, No.4(A), pp.871)

Delay-dependent Stabilization Conditions and Control of T-S Fuzzy Systems with Time-delay

*Wei Zhang, Tao Wang and Shaocheng Tong**

*Liaoning University of Technology, China

D6-02:

ISII09-039 (ICIC-EL, Vol.3, No.3(A), pp.403)

A Fuzzy Control System for Path Following of Mobile Robots

Yuhu Cheng, Xuesong Wang and Ruhai Lei*

*China University of Mining & Technology, China

D6-03:

ISII09-066 (ICIC-EL, Vol.3, No.3(A), pp.457)

Delay-dependent Approach to Robust Stability for Uncertain Discrete Stochastic Recurrent Neural Networks with Interval Time-varying Delays

Chien-Yu Lu, Wen-Jye Shyr, Kai-Chao Yao and Der-Fa Chen*

*National Changhua University of Education, Taiwan

D6-04:

ISII09-067 (ICIC-EL, Vol.3, No.3(A), pp.465)

A Delay-dependent Approach to Design State Estimator for Discrete Stochastic Recurrent Neural Network with Interval Time-varying Delays

Chin-Wen Liao, Chien-Yu Lu, Kai-Yuan Zheng and Chien-Chung Ting*

*National Changhua University of Education, Taiwan

D6-05:

ISII09-130 (ICIC-EL, Vol.3, No.3(B), pp.739)

Fuzzy H_∞ Filtering for Nonlinear Stochastic Systems with Missing Measurements

Yisha Liu and Wei Wang*

*Dalian University of Technology, China

D6-06:

ISII09-217 (ICIC-EL, Vol.3, No.4(A), pp.975)

Design of Direct Interval Type-2 Fuzzy Model Reference

Mojtaba Ahmadiéh Khanesar and Mohammad Teshnehlab*

*K.N. Toosi University of Technology, Iran

September 15 (Tuesday) 13:30--15:00

A7: Soft Computing

Session Chair: Prof. Zengqiang Chen (Nankai University, China)

A7-01:

ISII09-061 (ICIC-EL, Vol.3, No.4(B), pp.1239)

Ultrasonic Liver Tissue Analysis by Multiresolution Analysis and Combining Classifiers

*Wen-Li Lee**, *Cheng-Chi Wu*, *Yung-Chang Chen* and *Kai-Sheng Hsieh*

*Ming Chuan University, Taiwan

A7-02:

ISII09-131 (ICIC-EL, Vol.3, No.3(B), pp.745)

Generation of Dominance-based Decision Rules

*Liping An** and *Zengqiang Chen*

*Nankai University, China

A7-03:

ISII09-178 (ICIC-EL, Vol.3, No.4(A), pp.915)

On the Axiomatic Characterizations of Approximation Operators on a CCD Lattice

*Yan Gao**, *Keyun Qin* and *Jilin Yang*

*Southwest Jiaotong University, China

A7-04:

ISII09-256 (ICIC-EL, Vol.3, No.4(A), pp.1037)

Clustering of Incomplete Data Based on Ellipsoids with Adaptive Volumes

Ren-Wei Chang, *Kuei-Sung Weng* and *Leehter Yao**

*National Taipei University of Technology, Taiwan

A7-05:

ISII09-325 (ICIC-EL, Vol.3, No.4(B), pp.1399)

Thai Characters Recognition Based on Tolerant Rough Sets with Fuzzy C-Mean

*Watjanapong Kasemsiri** and *Yan Shi*

*King Mongkut's Institute of Technology Ladkrabang, Thailand

A7-06:

ISII09-332 (ICIC-EL, Vol.3, No.4(B), pp.1435)

Fuzzy Clustering Algorithm of Kernel for Gene Expression Data Analysis

*Zhiru Chen**, *Wenxue Hong* and *Changwu Wang*

*Yanshan University, China

September 15 (Tuesday) 13:30--15:00

B7: Management Science (II)

Session Chair: Prof. Xiangpei Hu (Dalian University of Technology, China)

B7-01:

ISII09-114 (ICIC-EL, Vol.3, No.3(A), pp.495)

Optimal Pricing and Production Master Planning in a Multi-period Horizon Considering Capacity and Inventory Constraints

Neale R. Smith, Jorge Limon Robles, Leopoldo Eduardo Cardenas-Barron and Rosa G. Gonzalez- Ramirez*

*ITESM, México

B7-02:

ISII09-123 (ICIC-EL, Vol.3, No.3(B), pp.713)

An Empirical Study on Risk Control Capability of Chinese Credit Guarantee Enterprises

*Jianhua Luo and Jianxing Weng**

*Central South University, China

B7-03:

ISII09-271 (ICIC-EL, Vol.3, No.4(B), pp.1293)

A Competition Model on Network Externalities between Payment Card Networks

Lu Han, Xiangpei Hu and Yikun Sun*

*Dalian University of Technology, China

B7-04:

ISII09-IS03-10 (ICIC-EL, Vol.3, No.4(B), pp.1365)

A Method for Multi-texts Knowledge Integration Based on Text Mining and Weighted Knowledge Network

Yunjiang Xi, Kaiji Liao, Zhengkui Lin, Bo Feng and Chunyang Zhang*

*South China University of Technology, China

B7-05:

ISII09-IS03-11 (ICIC-EL, Vol.3, No.4(B), pp.1441)

An Optimization Model for SMS Advertising Policy Based on RFM Analysis: A Merchant Perspective

Wenli Li and Jingpei Ma*

*Dalian University of Technology, China

B7-06:

ISII09-IS03-12 (ICIC-EL, Vol.3, No.4(B), pp.1447)

Information Systems Security Assessment: Using a Hybrid Multi-criteria Decision Aid Method for Selecting Secure E-Commerce Systems

Jianjun Wang, Lujun Miao and Feng Liu*

*Dalian University of Technology, China

September 15 (Tuesday) 13:30--15:00

C7: Intelligent Systems

Session Chair: Prof. Chao-Hsing Hsu (Chienkuo Technology University, Taiwan)

C7-01:

ISII09-084 (ICIC-EL, Vol.3, No.3(A), pp.471)

A Multi-level Sanitizing Strategy Based on Injection Point

Jin-Cheng Lin, Jan-Min Chen, Tien-Wei Lin and Shu-Wei Yang*

*Tatung University, Taiwan

C7-02:

ISII09-135 (ICIC-EL, Vol.3, No.3(B), pp.765)

Applying Analytic Hierarchy Process to E-Learner Satisfaction Model

Pi-Hsiang Li, David Wen-Shung Tai and Chao-Hsing Hsu*

*National Changhua University of Education, Taiwan

C7-03:

ISII09-172 (ICIC-EL, Vol.3, No.4(A), pp.903)

A Study on Scientific Workflow-based Astronomical Data Dissemination System

Feng Wang, Hui Deng, Kaifan Ji, Bo Liang, Yukun Deng and Xiangshi Ren*

*Kunming Univ. of Sci. and Tech., China

C7-04:

ISII09-280 (ICIC-EL, Vol.3, No.4(A), pp.1081)

A Method for Discovering Security Bugs of Software Based on AOE Network

Jiadong Ren, Changzhen Hu, Kunsheng Wang and Ruiqing Ma*

*Yanshan University, China

C7-05:

ISII09-312 (ICIC-EL, Vol.3, No.4(B), pp.1321)

Identification and Correction of Topology Errors in Distribution Substations

Heungjae Lee, Chanho Lim, Soogil Lee, Kyundo Kim, Insoo Wang, Hyunjae Kang and Wonkun Yu*

*University of Kwangwoon, Korea

C7-06:

ISII09-328 (ICIC-EL, Vol.3, No.4(B), pp.1411)

RNA Secondary Structure Prediction with Plane Pseudoknots Based on Support Vector Machine

Zhiru Chen, Wenxue Hong and Changwu Wang*

*Yanshan University, China

September 15 (Tuesday) 13:30--15:00

D7: Control Application

Session Chair: Prof. Mingcong Deng (Okayama University, Japan)

D7-01:

ISII09-060 (ICIC-EL, Vol.3, No.3(B), pp.579)

Active Modeling Based Course Control of Unmanned Surface Vehicles

Yan Peng, Qingjiu Huang, Yuqing He and Jianda Han*

*Shenyang Institute of Automation, CAS, China

D7-02:

ISII09-248 (ICIC-EL, Vol.3, No.4(A), pp.1025)

Controller Synthesis with the Consideration of Multi-resolution

Marvin H.-M. Cheng, Cheng-Yi Chen, Ezzat G. Bakhoun and Aniruddha Mitra*

*Georgia Southern University, USA

D7-03:

ISII09-264 (ICIC-EL, Vol.3, No.4(B), pp.1373)

Finite-time Tracking Control of Bank-to-turn Missiles Using Terminal Sliding Mode

Zhao Wang, Shihua Li and Shumin Fei*

*Southeast University, China

D7-04:

ISII09-265 (ICIC-EL, Vol.3, No.4(A), pp.1049)

Integral Sliding Mode Control of PMSM Speed-regulation System

Cunjian Xia, Xiaocui Wang, Shihua Li and Xisong Chen*

*Southeast University, China

D7-05:

ISII09-267 (ICIC-EL, Vol.3, No.4(A), pp.1061)

Experimental Study of Robust Control to a Nonlinear MIMO Process Using Robust Right Coprime Factorization

*Shengjun Wen and Mingcong Deng**

*Okayama University, Japan

D7-06:

ISII09-270 (ICIC-EL, Vol.3, No.4(A), pp.1073)

Integral Servo with $PID \times (n-2)/2$ Stage PDA Controllers for Unstable Systems

Prapart Ukakimaparn, Pittaya Pannit, Kitti Tirasesth and Thanit Trisuwannawat*

*King Mongkut's Institute of Technology Ladkrabang, Thailand

September 15 (Tuesday) 15:20--17:05

A8: Optimization

Session Chair: Dr. Ruedee Masuchun (King Mongkut's Institute of Technology Ladkrabang, Thailand)

A8-01:

ISII09-009 (ICIC-EL, Vol.3, No.3(A), pp.295)

Strictly Pure Nash Equilibria and Expected Equilibria in a Symmetrical 0-1 Game and Its Dual Game

Dianyu Jiang

Huaihai Institute of Technology, China

A8-02:

ISII09-102 (ICIC-EL, Vol.3, No.3(B), pp.657)

Order Planning Model and Algorithm for whole Process of Cold Rolling

Li Wang, Jun Zhao and Wei Wang*

*Dalian University of Technology, China

A8-03:

ISII09-125 (ICIC-EL, Vol.3, No.3(A), pp.501)

Integrating Production Scheduling and Material Requirements Planning

Ruedee Masuchun, Wiboon Masuchun and Teerawat Thepmanee*

*King Mongkut's Institute of Technology Ladkrabang, Thailand

A8-04:

ISII09-161 (ICIC-EL, Vol.3, No.4(B), pp.1257)

Particle Swarm Optimization with Probability Statistic and Mutation for Biological Multiple Sequence Alignment

Zijun Chen, Cuixia Yan, Changwu Wang, Baowen Wang and Wenyan Liu*

*Yanshan University, China

A8-05:

ISII09-171 (ICIC-EL, Vol.3, No.3(B), pp.853)

Directivity Optimization of Microspeaker Array

Qiang Liu, Limei Xu and Teng Ma*

*University of Electronic Science and Technology of China, China

A8-06:

ISII09-221 (ICIC-EL, Vol.3, No.4(A), pp.983)

An Efficient Approximation Algorithm of BCMV(p) Based on LP-rounding

Peiqiang Liu, Daming Zhu, Hui Fan and Qingsong Xie*

*Shandong University, China

A8-07:

ISII09-329 (ICIC-EL, Vol.3, No.4(B), pp.1417)

Improved Particle Swarm Optimization Algorithm Based On Double Mutation

Changwu Wang, Peipei Sui and Wenyan Liu*

*Yanshan University, China

September 15 (Tuesday) 15:20--17:05

B8: Management Science (III)

Session Chair: Prof. Chunhui Xu (Chiba Institute of Technology, Japan)

B8-01:

ISII09-014 (ICIC-EL, Vol.3, No.3(A), pp.307)

Understanding the Price Fluctuations of Stock Markets through Cellular Automata

Yunjie Zhang and Ying Chen*

*Dalian Maritime University, China

B8-02:

ISII09-025 (ICIC-EL, Vol.3, No.3(A), pp.349)

Applying New Investment Satisfied Capability Index and Particle Swarm Optimization to Stock Portfolio Selection

Jui-Fang Chang and Kai-Lun Chen*

*National Kaohsiung University of Applied Sciences, Taiwan

B8-03:

ISII09-079 (ICIC-EL, Vol.3, No.3(B), pp.627)

Investment Risk Control for Upgrade-products

Qiaolun Gu and Tiegang Gao*

*Tianjin University of Technology and Education, China

B8-04:

ISII09-202 (ICIC-EL, Vol.3, No.4(A), pp.939)

Portfolio Optimization with Risk Measured by Variance and VaR

Jie Wang, Chunhui Xu and Akiya Inoue*

*Chiba Institute of Technology, Japan

B8-05:

ISII09-205 (ICIC-EL, Vol.3, No.4(A), pp.945)

Realization on Allocation Efficiency of Public Expenditure with Path-converged Design

Bing Xu, Juying Zeng and Junzo Watada*

*Zhejiang Gongshang University, China

B8-06:

ISII09-254 (ICIC-EL, Vol.3, No.4(A), pp.1031)

The Prediction of PKI Security Performance Using PSO and Bayesian Classifier

Chi-I Hsu, Chaochang Chiu and Michael Shan-Hui Ho*

*Yuan Ze University, Taiwan

B8-07:

ISII09-292 (ICIC-EL, Vol.3, No.4(A), pp.1131)

Research on Virtual Enterprise Robust Risk Programming Method

Min Huang, Yanli Huo, Chunhui Xu and Xingwei Wang*

*Northeastern University, China

September 15 (Tuesday) 15:20--17:05

C8: Mathematical Modeling and Systems

Session Chair: Prof. Vyacheslav V. Kalashnikov (ITESM, México)

C8-01:

ISII09-045 (ICIC-EL, Vol.3, No.3(A), pp.427)

Applying Adaptive Estimator to Maneuvering Tracking System

Chien-Wen Lai, Pei-Kun Chen, Yi-Nung Chung and Chao-Hsing Hsu*

*National Changhua University of Education, Taiwan

C8-02:

ISII09-184 (ICIC-EL, Vol.3, No.4(B), pp.1281)

A New Approach to Solving Bi-level Programming Problems with Integer Upper Level Variables

Stephan Dempe, Vyacheslav V. Kalashnikov, Nataliya I. Kalashnykova and Aaron Arevalo Franco*

*ITESM, México

C8-03:

ISII09-186 (ICIC-EL, Vol.3, No.3(B), pp.859)

Cournot and Stackelberg Mixed Duopoly Models Applied to Analysis of the Credit System for Economy Class Homes in Mexico

*Vitaly V. Kalashnikov, Nataliya I. Kalashnykova Neale R. Smith and Vyacheslav V. Kalashnikov**

*ITESM, México

C8-04:

ISII09-253 (ICIC-EL, Vol.3, No.4(B), pp.1275)

A Novel Approach for Fast and Paired 2-D Direction-of-arrival Estimation Using Two Parallel Uniform Linear Arrays

Tansu Filik and T. Engin Tuncer*

*Middle East Technical University, Turkey

C8-05:

ISII09-288 (ICIC-EL, Vol.3, No.4(A), pp.1113)

Low-complexity Dual Basis Digit Serial $GF(2^m)$ Multiplier

Po-Lun Chang, Ying-Kuei Yang, Liang-Hwa Chen, Fei-Hu Hsieh and Chiou-Yng Lee*

*Lunghwa University of Science and Technology, Taiwan

C8-06:

ISII09-314 (ICIC-EL, Vol.3, No.4(B), pp.1333)

Research on Pricing Policies for Seasonal Goods Based on Optimal Control Theory

Lei Tang, Lin-Du Zhao and Jie Guo*

*Southeast University, China

C8-07:

ISII09-321 (ICIC-EL, Vol.3, No.4(B), pp.1387)

An Analysis for Parameter Configuration of Job Scheduler Focusing on Users

Rika Ito

Japan Aerospace Exploration Agency, Japan

September 15 (Tuesday) 15:20--17:05

D8: Modeling and Simulation

Session Chair: Prof. Shihua Li (Southeast University, China)

D8-01:

ISII09-047 (ICIC-EL, Vol.3, No.3(A), pp.433)

The Dynamic Behavior of SIRS Epidemic Model in Complex Networks

Damin Zhang, Fei Long and Shaohong Cai*

*Guizhou University, China

D8-02:

ISII09-049 (ICIC-EL, Vol.3, No.3(A), pp.439)

Chaotic Motion in Fluid-solid Interaction Problem of the Elastic Cylinder

Yang Yang, Xiangzhong Bai, Zhenguo Tian and Huan Wang*

*Yanshan University, China

D8-03:

ISII09-081 (ICIC-EL, Vol.3, No.3(B), pp.633)

Research on Automatic Control Simulation Platform of Oil Pipeline-transportation
Technology Evaluation System

Zhirong Zhang, Jingxin Li, Zhongxin Liu and Zengqiang Chen*

*Nankai University, China

D8-04:

ISII09-113 (ICIC-EL, Vol.3, No.3(A), pp.489)

A Heuristic Approach to a Lot Sizing and Pricing Multiproduct, Multiperiod and Discrete
Time Model

Rosa G. Gonzalez-Ramirez, Neale R. Smith and Ronald G. Askin*

*ITESM, México

D8-05:

ISII09-147 (ICIC-EL, Vol.3, No.3(B), pp.819)

Sensitivity and Uncertainty Analysis of Equipment Run Efficiency Model in Semiconductor
Manufacturing

Bo Li and Qiang Wang*

*University of Electronic Science and Technology of China, China

D8-06:

ISII09-150 (ICIC-EL, Vol.3, No.4(A), pp.891)

Border Effect Suppression Method on Discrete Information Interval of Structural Vibration
Mode

Baifeng Gao, Huijian Li, Bing Wang and Xin Jiang*

*Yanshan University, China

D8-07:

ISII09-260 (ICIC-EL, Vol.3, No.4(B), pp.1287)

Dynamic Balance Instrumentation of Automobile Tire

*Lianming Sun and Bailin Hang**

*Qingdao University of Science and Technology, China