

Technical Sessions

August 29, Tuesday

13:00 – 15:00 Conference Room 1, 4F

A1: Optimal, Adaptive and Hybrid Intelligent System Applications in Electrical Engineering

Chair: Prof. Kuei-Hsiang Chao (National Chin-Yi University of Technology, Taiwan)

A1-1

ICICIC2017-SS12-01

A Novel Cable Detection Method Based on Combined Algorithm of Extension Neural Network and Chaos Theory

Shiue-Der Lu, Meng-Hui Wang and Kun-De Lin (Taiwan)*

A1-2

ICICIC2017-SS12-02

Olympic Torch Relay Route Planning Based on Ant Colony Optimization

Chin-Tsung Hsieh, Hsiao-Ping Chen, Her-Terng Yau and Jin-Yu Chang (Taiwan)*

A1-3

ICICIC2017-SS12-03

Extension Theory-Based Islanding Detection Method for Grid-Connected Photovoltaic Power Systems

Pi-Yun Chen, Kuei-Hsiang Chao and Yu-Hsiang Liao (Taiwan)*

A1-4

ICICIC2017-SS12-04

A Novel Active Cell Balance Charging System for Li-Battery Module

Shing-Lih Wu, Hung-Cheng Chen, Chih-Hsuan Chien and Chiem-Kuei Lo (Taiwan)*

A1-5

ICICIC2017-SS12-05

Decoupling Control Strategy for Discrete Sliding Mode Current Compensation of High Speed IPMSM

Yan Dong, Ruizhi Xin, Hao Zhang and Lingling Li (China)*

A1-6

ICICIC2017-SS12-06

Research on Model Predictive Control of Dual PWM Converter Based on Sliding Model Variable Structure and System Power Compensation

Hexu Sun, Zhenghe Hao, Bin Liu and Zhiyu Wang (China)*

A1-7

ICICIC2017-SS12-07

Coordinated Control of the Two-Phase Vibration Mode of TWUSM Based on Discrete Contact Model

Kai Jing, Jin Guo, Zhaoming Lei and Jing Liang (China)*

A1-8

ICICIC2017-SS12-08

Speed Estimation Adaptive Indirect Rotor Flux Vector Controlled Induction Motor Drive

Yung-Chang Luo, Hong-Syuan Lin and Ying-Piao Kuo (Taiwan)*

August 29, Tuesday

13:00 – 15:00 Conference Room 2, 4F

B1: Innovative Power System and Engineering Applications

Chair: Prof. Cheng-Yi Chen (Cheng Shiu University, Taiwan)

B1-1

ICICIC2017-SS02-01

A Research on Establishing Occupational Competency Curriculum for Key Positions in Electrical and Electronic Industries

Jung-Nan Yen, Po-Han Lin, Chiao-Pin Bao and Hsiang-Chen Hsu (Taiwan)*

B1-2

ICICIC2017-SS02-02

Embedded Controller Design for Motor Operation Device with Bluetooth and Modbus Communication

Cheng-Yi Chen, Rong-Ching Wu, Chung-Long Pan, Chao-Ming Hsu and Shinn-Horng Chen (Taiwan)*

B1-3

ICICIC2017-SS02-03

Design of Argon Runner in Polycrystalline Silicon Directional Solidification System

Kai-Chun Lin, Yu-Yi Lin and Chao Ming Hsu (Taiwan)*

B1-4

ICICIC2017-SS02-04

Novel Testing Method for Signal Coupling and Discontinued Noise by Near-Field Measurement System

Ren-Fang Hsu, Meng-Hua Tu, Sung-Mao Wu, Chun-Sen Wu, Yung-Mao Cheng Chia-Lin Chen, Wei-Jen Chen, Cheng-Fu Yang and Cheng-Yi Chen (Taiwan)*

B1-5

ICICIC2017-SS02-05

The Design of Wireless Power Transportation (WPT) with Yagi-Uda Antenna for 2.4GHz Band

Chung-Long Pan, Cheng-Yi Chen, Rong-Ching Wu, Wei-Cheng Lin and Ping-Cheng Chen (Taiwan)*

B1-6

ICICIC2017-SS02-06

Parameter Estimation for Permanent Magnet DC Machine by Least Square Method

Rong-Ching Wu, Chung-Long Pan and Cheng-Yi Chen (Taiwan)*

B1-7

ICICIC2017-SS02-07

Low-Voltage and Low-Power Charger Circuit Based on a Novel Single-Switch Resonant Converter with ZVS for Use in Portable Equipment

Ying-Chun Chuang, Hung-Shiang Chuang and Cheng-Yi Chen (Taiwan)*

B1-8

ICICIC2017-SS02-08

A Novel Scoring System for the Gun Shoot of Emulated War Games

Hwa Ming Nieh and Chien-Yuan Liu (Taiwan)*

August 29, Tuesday

13:00 – 15:00 Conference Room 3, 4F

C1: Manufacturing Systems

Chair: Prof. Minsoo Kim (Pukyong National University, Korea)

C1-1

ICICIC2017-SS10-01

General-Purpose M&S (Modeling & Simulation) System under the User Experience of SME Users
Dong-Woo Seo, Myungil Kim, Seung-Keun Park, Jaesung Kim
and Seok Chan Jeong (Korea)*

C1-2

ICICIC2017-SS10-02

Comparison of the FSI Analysis Results of the Vane Pump According to the Software
Jaesoon Hwang, Jaesung Kim, Tae Ho Yoon and Hoyoon Kim (Korea)*

C1-3

ICICIC2017-SS10-03

Empirical Study of Engineering Modeling and Simulation in Manufacturing Innovation to Lead
4th Industrial Revolution
Jae Yun Jeong, Yuri Han, Jae Sung Kim, Seok Chan Jeong, Mi Hyun Ko
and Suchul Lee (Korea)*

C1-4

ICICIC2017-SS10-04

Performance Evaluation of Open-Source Structural Analysis Solver, CalculiX and Code-Aster,
for Linear Static and Contact Problems
Seung-Keun Park, Dong Woo Seo, Heeseok Jung and Myungil Kim (Korea)*

C1-5

ICICIC2017-SS10-05

An Analysis on Global Competitiveness of Engineering Modeling & Simulation Technology
for the Next Manufacturing Innovation: Using Quantitative Analysis of Patent and Paper
Yuri Han, Jae Yun Jeong, Mi Hyun Ko, Suchul Lee and Jae Sung Kim (Korea)*

C1-6

ICICIC2017-SS10-06

FE Analysis Validation of Three Point Bending Test about Grazing Treatment Effect in Outer
Surface of EPP Hollowed Buoy
Tae Ho Yoon, Jeongwoo Hong, Jaesoon Hwang, Jaesung Kim and Hoyoon Kim (Korea)*

C1-7

ICICIC2017-SS10-07

Construction of Augmented Reality-Based Spatial and Geometric Information for Design
and Analysis Visualization
Minseok Kim, Jae Yeol Lee, Dong Woo Seo and Jae Sung Kim (Korea)*

C1-8

ICICIC2017-SS10-08

Manufacturing UX Framework Using Context Awareness and Dual Reality
Minseok Kim, Sung Ho Choi, Kyeong-Beom Park, Jae Yeol Lee and Yong-Ju Cho (Korea)*

August 29, Tuesday

13:00 – 15:00 Assembly Room 1, 5F

D1: Innovative Computing and Applications

Chair: Prof. Minjung Kwak (Soongsil University, Korea)

D1-1

ICICIC2017-SS21-01

A Review of Research on Remanufacturing Using a Citation Network Analysis

Seonmi Lee and Minjung Kwak (Korea)*

D1-2

ICICIC2017-SS21-02

A Study on the Effect of Mobile Apps on the Environmental Impact of Smartphones

Gyu Been Choi, Hyeon Hee Lee, Song Ah Oh, Minjung Kwak, Sangho Kim and Seoyoon Lee (Korea)*

D1-3

ICICIC2017-SS21-03

Effect of Feedback on Situation Awareness and Performance for Practicing Real-Time Strategic Game

Wonil Hwang and Taezoon Park (Korea)*

D1-4

ICICIC2017-SS21-04

Sensory Channel Effects with VR Stimuli on Perceived Emotions of Materials

Jun Sik Park, Taezoon Park and Wonil Hwang (Korea)*

D1-5

ICICIC2017-SS21-05

Study on Advanced Behavior Analysis of Towfish

Gyusung Cho, Kyungmin Baik and Hyun-Sik Kim (Korea)*

D1-6

ICICIC2017-SS21-06

A Development of Chatbot Framework for Ship Safety Education Based on Actual Communication Data between Port Control Center and Ship

Sungchul Choi, Wonchul Seo, Seunghee Choi and Eun-Kyu Jang (Korea)*

D1-7

ICICIC2017-SS21-07

Production Scheduling in Steel Manufacturing with Cutting and Parallel Operations

Sujin Won, Hyerim Bae and Riska Asriana Sutrisnowati (Korea)*

D1-8

ICICIC2017-069

Parameter Estimation for Burr Type XII Distribution with Differential Evolution and Quasi-Newton Approaches Based on Progressively Type I Interval-Censored Samples

Jianping Zhu, Hua Xin, Junge Sun, Ya-Yen Fan, Chenlu Zheng and Tzong-Ru Tsai (Taiwan)*

August 29, Tuesday

13:00 – 15:00 Assembly Room 2, 5F

E1: Data Science and Engineering

Chair: Prof. Tai-Woo Chang (Kyonggi University, Korea)

E1-1

ICICIC2017-SS20-01

Development of Augmented Reality Applications for Refrigerated Warehouse

Siku Kim, Sangil Lee, Kwangyeol Ryu, Gyusung Cho and Jaesung Kim (Korea)*

E1-2

ICICIC2017-SS20-02

A Topic Modeling Method Based on the Affective Filter

Lin Wang, Hyunjin Jeon, Kangcheol Lee, Mungyeong Choe, Jaehyun Park*

Byung Cheol Lee, Jangwoon Park and Heejin Jeong (Korea)

E1-3

ICICIC2017-SS20-03

Research Trends in Social Network Analysis Using Topic Modeling and Network Analysis

Yubin Kim and Nam-Wook Cho (Korea)*

E1-4

ICICIC2017-SS20-04

A Study on the Technology Convergence of Artificial Intelligence through Patent Analysis

Ho Yeon Oh, Hong Joo Lee and Tai-Woo Chang (Korea)*

E1-5

ICICIC2017-SS20-05

Online News Analysis about Smart Factory Using Text Mining

Youn-Sub Jung and Tai-Woo Chang (Korea)*

E1-6

ICICIC2017-SS20-06

Greenhouse Gas Emission Reduction on Collection Logistics of End-of-Life Consumer Electronics Considering Environment Information

Hyunsoo Kim and Kiwoong Park (Korea)*

E1-7

ICICIC2017-SS20-07

Case Study on the Operation of Smart Refrigerated Warehouse in Busan

Hyun-Sik Kim and Gyusung Cho (Korea)*

E1-8

ICICIC2017-065

Fuzzy Correlation among Student Engagement and Interpersonal Interactions

Dian-Fu Chang, An Chen Chiu and Berlin Wu (Taiwan)*

August 29, Tuesday

13:00 – 15:00 Assembly Room 3, 5F

F1: Computer Technologies for Intelligent Systems

Chair: Prof. Hiroataka Takahashi (Nagaoka University of Technology, Japan)

F1-1

ICICIC2017-SS19-01

Research on the Parameters Identification Method of Magic Formula Tire Model Based on Genetic Algorithm

Tao Chen, Shuai Hou, Lingzhi Meng, Wangfang Yuan and Lang Wei (China)*

F1-2

ICICIC2017-SS19-02

Study on Roads Designing of Automobile Virtual Experiment Field Based on Multigen Creator

Wangfang Yuan, Lang Wei, Lijia Leng and Shishuo Xue (China)*

F1-3

ICICIC2017-SS19-03

Research of Preceding Vehicle Identification Based on Haar-Like Features and Adaboost Algorithm

Yongtao Liu, Jie Qiao and Lang Wei (China)*

F1-4

ICICIC2017-SS19-04

Study on Improved Battery Model and Characteristics for Pure Electric Bus

Man Yu, Longlong Wei, Lang Wei and Xuan Zhao (China)*

F1-5

ICICIC2017-SS19-05

Data Acquisition and Processing of Driving Operation System for Vehicle Dynamics Simulation

Lang Wei, Jie Qiao and Yongtao Liu (China)*

F1-6

ICICIC2017-SS19-06

Development of Driver Psychology Evaluation System Based on Driving Operation Information

Zhong Zhang, Shogo Takayanagi, Takuma Akiduki and Lang Wei (Japan)*

F1-7

ICICIC2017-027

Relationships between Online Behaviors and Entrepreneurial Intentions Explained by Fuzzy Statistics

Dian-Fu Chang and Hsiao-Chi Chang Tzeng (Taiwan)*

F1-8

ICICIC2017-028

Search for Empowerment Strategies: An Example of Factorial Extraction

Dian-Fu Chang, Sheng-Nan Chen and Hung-Jen Weng (Taiwan)*

August 29, Tuesday

15:20 – 17:35 Conference Room 1, 4F

A2: Electrical Engineering and Image Processing

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

A2-1

ICICIC2017-SS08-01

Energy Saving Management for Air Conditioning System of Buildings

Dong-Ming Liang, Chao-Hsing Hsu and Yi-Nung Chung (Taiwan)*

A2-2

ICICIC2017-SS08-02

Exploring the Issue of School Bullying and the Innovative Product Development of Game Cards

Rui-Lin Lin (Taiwan)

A2-3

ICICIC2017-SS08-03

A Study of the Computer Graphic Design Course

Jing-Chen Xie (Taiwan)

A2-4

ICICIC2017-SS08-05

Underwater Image Restoration Using Adaptive Neighborhood Dark Channel Prior

Yu-Chi Pu and Wei-Chang Du (Taiwan)*

A2-5

ICICIC2017-SS08-08

Study on the Transient Electromagnetic Effect of the Lightning Protection System of a Building by Numerical Calculation

Yan Zhang, Chao Fu, Zheng Li, Peng Li, Di Wang and Yifan Yang (China)*

A2-6

ICICIC2017-044

An Adaptation Model with Variable Window Size for Fuzzy Time Series

Wenyan Song, Degang Wang, Keke Zhao and Hongxing Li (China)*

A2-7

ICICIC2017-045

Selecting Managerial Strategies by Using Fuzzy Logics for Kindergarten under the Decreasing Birth Rate

Huei-Ting Huang, Dian-Fu Chang and Hung-Jen Weng (Taiwan)*

A2-8

ICICIC2017-131

Supply Chain Coordination under Considering the Dual-Channel Retailer

Peng Zhang and Bei Xia (China)*

A2-9

ICICIC2017-163

Seeing the Voice of Taiwanese Cuisine: Chinese University Students' Perspective

Pi-Chu Wu (Taiwan)

August 29, Tuesday

15:20 – 17:35 Conference Room 2, 4F
B2: Construction Management and Engineering
Chair: Prof. Yan-Chyuan Shiau (Chung Hua University, Taiwan)

B2-1

ICICIC2017-SS07-01

Study on Causes of Face Tile Debonding

I-Tsen Liu, Yan-Chyuan Shiau and Chao-Lung Wang (Taiwan)*

B2-2

ICICIC2017-SS07-02

A Study on the Career Advancement of Engineering Staff in Taipei City Sewage Systems Office

Fu-Ming Tsai and Yan-Chyuan Shiau (Taiwan)*

B2-3

ICICIC2017-SS07-04

An Improved Pre-Detection Based Tag Anti-Collision Scheme in RFID Systems

Hao-Wei Chen, Shu-Yuan Chang and Chiu-Kuo Liang (Taiwan)*

B2-4

ICICIC2017-SS07-05

Using Augmented Reality Technologies to Develop a Program for Simulating Interior Designing

Yung-Piao Chiu and Yan-Chyuan Shiau (Taiwan)*

B2-5

ICICIC2017-SS07-06

Study on Using UAV and Software to Perform Water Conservation Planning and Design for Hillside

Yu-Lung Lee, Yan-Chyuan Shiau, Shu-Jen Song and Yu-Chi Chen (Taiwan)*

B2-6

ICICIC2017-SS07-07

Investigating Crowd-Diversion-Based Evacuation at Emergency Exits

Yung-Piao Chiu, Yan-Chyuan Shiau and Yi-Hsuan Lai (Taiwan)*

B2-7

ICICIC2017-SS07-08

Sustainable Implementation of SPIM in a Constructed Wetland Project

Yu-Chi Chen, Yan-Chyuan Shiau and Ching-Mei Miao (Taiwan)*

B2-8

ICICIC2017-032

Fuzzy Detection of Leadership for Learning Perceived by Principals and Teachers

Yun Chin Tai and Dian-Fu Chang (Taiwan)*

B2-9

ICICIC2017-070

Detecting the Effect of Policy Intervention for Oversupply Higher Education System

Dian-Fu Chang and Yu-Lan Huang (Taiwan)*

August 29, Tuesday

15:20 – 17:35 Conference Room 3, 4F

C2: Industrial Engineering Applications

Chair: Prof. Changmuk Kang (Soongsil University, Korea)

C2-1

ICICIC2017-SS25-01

Optimal Modular Decomposition for Minimizing Cost of Preventive Maintenance under Target Availability

Changmuk Kang (Korea)

C2-2

ICICIC2017-SS25-02

Enhancing Efficacy of Supplier Consolidation through Integrating Dedicated Manufacturing Lines

Jongwon Chung and Changmuk Kang (Korea)*

C2-3

ICICIC2017-SS25-03

A Decomposition Approach for Scheduling of Electric Vehicle Charging under Preemptive Charging Scheme

Jinil Han and Dayoung Ko (Korea)*

C2-4

ICICIC2017-SS25-04

An Exact Algorithm for the Robust Bandwidth Packing Problem

Jinil Han (Korea)

C2-5

ICICIC2017-SS25-05

IoT and Sensor Networked Smart Product

HaeKyung Lee and Taioun Kim (Korea)*

C2-6

ICICIC2017-SS25-06

The Economics of Sharing in Courier Service: Network Design Based on Coalitional Game Theory

Ki Ho Chung, Friska Natalia Ferdinand and Chang Seong Ko (Korea)*

C2-7

ICICIC2017-SS25-07

Ontology Based Decision Support System for Hypersensitivity Disorder Allergy

Andre Halim, Friska Natalia Ferdinand and Chang Seong Ko (Indonesia)*

C2-8

ICICIC2017-SS03-07

Experimental and Numerical Verification of Vertical Green Wall for Thermal Insulation and Heat Preservation on Building

Chien-Shiun Huang, Wen-Pei Sung, Chun-Hao Liu and Che-Lun Lee (Taiwan)*

C2-9

ICICIC2017-SS03-08

New Heat Pump System for Long-Term Care Center in Central Taiwan to Improve Thermal Comfort of Public Space

Shih-Chi Lo, Ming-Cheng Liao and Wen-Pei Sung (Taiwan)*

August 29, Tuesday

15:20 – 17:35 Assembly Room 1, 5F

D2: Intelligent Computing Technology

Chair: Prof. Jae-Yoon Jung (Kyung Hee University, Korea)

D2-1

ICICIC2017-SS22-01

Global Connectivity of Interests to Internet of Things over Web Search Trend Data

Chul-Won Lee and Minsoo Kim (Korea)*

D2-2

ICICIC2017-SS22-02

An Innovative Business Model for Convenience Stores Based on the Integration of Product Information and Customer Location Information

Kyungyeol Park, Seungeun Kim, Haksu Kim and Dongsoo Kim (Korea)*

D2-3

ICICIC2017-SS22-03

Analyzing Bottleneck Resource Pools of Operational Process Using Process Mining

Gwangjin Heo, Jinsung Lee and Jae-Yoon Jung (Korea)*

D2-4

ICICIC2017-SS22-04

Do Interaction Modes Influence the Degree of Virtual Reality Sickness?

Mungyeong Choe, Yeongcheol Choi, Hyun K. Kim, Jaehyun Park and Heejin Jeong (Korea)*

D2-5

ICICIC2017-SS22-05

A Study of the Effect of Perforated Muffler of Vehicle on Noise Characteristics at the Specific Frequency

Kyungte Lee, Sangman Kim, Myeongjun Han and Namkeun Kim (Korea)*

D2-6

ICICIC2017-SS22-06

A Meta-Analysis of Advanced UTAUT Factors in the ICT Industries: An Analysis of Published Papers in Korean Journals

Jeong Seon Hwang and Hong Joo Lee (Korea)*

D2-7

ICICIC2017-SS22-07

A Framework for Analyzing Mobile Application Logs Using Process Mining Techniques

Seungeun Kim and Dongsoo Kim (Korea)*

D2-8

ICICIC2017-SS26-04

The Influence of Market Orientation on Brand Equity through Social Media Competence and Capability

Huimin Mu and Taesoo Moon (Korea)*

D2-9

ICICIC2017-SS26-05

The Relationship between Supply Chain Orientation and Supply Chain Performance and Mediating Effect of Dynamic Collaboration Capability

Sungbae Kang and Taesoo Moon (Korea)*

August 29, Tuesday

15:20 – 17:35 Assembly Room 2, 5F

E2: Intelligent System and Applications

Chairs: Prof. Kuo-Hsien Hsia (Far East University, Taiwan)

Prof. Kuo-Lan Su (National Yunlin University of Science & Technology, Taiwan)

E2-1

ICICIC2017-SS03-01

An FPGA-Based Sliding Fuzzy Control for DC/DC Boost Converter

Cheng-Shion Shieh (Taiwan)

E2-2

ICICIC2017-SS03-02

Carrier Transformation for Data Travelling from a White-Light LED to an IR Receiver Module

Tang-Jen Liu and Kuo-Hsien Hsia (Taiwan)*

E2-3

ICICIC2017-SS03-03

Applications of the SCARA Robot Arm Using Vision System

Jian-Fu Weng and Kuo-Lan Su (Taiwan)*

E2-4

ICICIC2017-SS03-04

The Applications of XY Stage Contour Tracking Control

Wei-Lung Mao, Suprpto, Chung-Wen Hung and Ding-Yu Shiu (Taiwan)*

E2-5

ICICIC2017-SS03-05

The Effect of Variable Torque Constant on Brushless DC Motor

Chung-Wen Hung, Chu-Lin Hsu, Wei-Lung Mao and Yun-Ruei Lu (Taiwan)*

E2-6

ICICIC2017-SS03-06

A Portable Plantar Pressure Sensing System

Chung-Wen Hung, Wei-Lung Mao, Jian-He Liao and Hao-Jun Zhang (Taiwan)*

E2-7

ICICIC2017-SS03-09

Development of Low-Cost General Gas Detection System

Jr-Hung Guo, Kuo-Lan Su and Kuo-Hsien Hsia (Taiwan)*

E2-8

ICICIC2017-SS03-10

Typingless Ticketing Device Input by Automatic License Plate Recognition Smartglasses

Chian C. Ho, Bo-Yuan Tseng and Ming-Che Ho (Taiwan)*

E2-9

ICICIC2017-SS03-11

Development of the KNRm System Based Mobile Robot

Ji-Hua Li, Kuo-Hsien Hsia, Jr-Hung Guo and Kuo-Lan Su (Taiwan)*

August 29, Tuesday

15:20 – 17:35 Assembly Room 3, 5F

F2: Computer Technologies and Signal Processing

Chair: Prof. Zhong Zhang (Toyohashi University of Technology, Japan)

F2-1

ICICIC2017-SS13-01

Swimming Motion Classification for Coaching System by Using a Sensor Device

Masahiro Kobayashi, Yuto Omae, Kazuki Sakai, Akira Shionoya, Hirotaka Takahashi*

Takuma Akiduki, Kazufumi Nakai, Nobuo Ezaki, Yoshihisa Sakurai and Chikara Miyaji (Japan)

F2-2

ICICIC2017-SS13-02

Analysis with Hilbert-Huang Transform for Post-Apneic Snoring Sounds in Patients with Severe Obstructive Sleep Apnea

Hirotaka Takahashi, Tsuyoshi Mikami, Satoshi Ueki and Kazuya Yonezawa (Japan)*

F2-3

ICICIC2017-SS13-03

Vision-Based Behavior Learning of Mobile Robot by Deep Q-Network

Hikaru Sasaki, Tadashi Horiuchi and Satoru Kato (Japan)*

F2-4

ICICIC2017-SS13-04

Research on Defect Detection of Painting Surface

Zhong Zhang, Jiaji Fang and Takuma Akiduki (Japan)*

F2-5

ICICIC2017-SS13-05

Extraction and Classification of Human Gait Features from Acceleration Data

Takuma Akiduki, Kento Kawamura, Zhong Zhang and Hirotaka Takahashi (Japan)*

F2-6

ICICIC2017-SS30-06

A Study on Hybrid Approach for Single-Vendor-Single-Buyer Integration Inventory Policy with Space Limit

Dongju Lee (Korea)

F2-7

ICICIC2017-106

Structure Analysis of Fuzzy Graph and Its Application

Kimiaki Shinkai, Ei Tsuda and Hajime Yamashita (Japan)*

F2-8

ICICIC2017-140

Type-2 Fuzzy Contingency Table and Similarity Indices

Hiroaki Uesu (Japan)

F2-9

ICICIC2017-149

A Method of Evaluation in Calculus Classes by Rubric

Satoru Takagi and Takeo Nikami (Japan)*

August 30, Wednesday

8:50 – 10:50 Conference Room 1, 4F

A3: Circuits and Systems

Chair: Prof. Kei Eguchi (Fukuoka Institute of Technology, Japan)

A3-1

ICICIC2017-040

Design of a Step-Up Inductor-less AC-AC Converter Using Nesting Conversion

Kei Eguchi, Wanglok Do, Ichirou Oota and Hirofumi Sasaki (Japan)*

A3-2

ICICIC2017-043

A 2-Mode Digital FLL Using Frequency Comparator Corresponding to Cycle Slip

Mitsutoshi Yahara, Kuniaki Fujimoto, Yujiro Harada and Kinya Matsumoto (Japan)*

A3-3

ICICIC2017-046

Development of NDA Free VLSI Design Flow for 0.6um Commercial Fabrication

Naohiko Shimizu (Japan)

A3-4

ICICIC2017-061

A Wide Range Manhattan Distance Search Circuit Using Neuron CMOS Inverters

Yujiro Harada, Kuniaki Fujimoto, Kei Eguchi, Masaaki Fukuhara
and Masahiro Yoshida (Japan)*

A3-5

ICICIC2017-066

Calculation of a Light Absorbance Measurement Device by Double Averaging and Feedback Processes

Soranut Kittpanyangam, Wang Lok Do and Kei Eguchi (Japan)*

A3-6

ICICIC2017-109

A Control Way of a Fibonacci Sequence Switched Capacitor DC-DC Converter for Higher Power Efficiency

Wanglok Do and Kei Eguchi (Japan)*

A3-7

ICICIC2017-133

Single-Inductor Two-Stage PFC Converter

Haoran Li, Xiucheng Dong, Geng Chen, Tiesheng Yan and Sha Dai (China)*

A3-8

ICICIC2017-146

Short-Circuit-Current Reduction by Using a Clocked Neuron CMOS Inverter in a Time-Domain Data Coincidence Detector

Masaaki Fukuhara, Nao Onji, Takanori Kurano, Tasuku Nakajima, Yujiro Harada
Kuniaki Fujimoto and Masahiro Yoshida (Japan)*

August 30, Wednesday

8:50 – 10:50 Conference Room 2, 4F

B3: Management Science

Chair: Prof. Young Seok Ock (Pukyong National University, Korea)

B3-1

ICICIC2017-SS26-03

Factors Affecting Satisfaction and Continuous Use Intention in Location-Based Services

Jae-Ik Shin and Sung-Hee Jang (Korea)*

B3-2

ICICIC2017-SS26-06

The Antecedents of Switching and Switching Back Behavior in the Mobile Industry

Chang-Gyu Oh and So-Jin Park (Korea)*

B3-3

ICICIC2017-SS26-07

A Study on the Acceptance Factors to Use Mobile Easy Remittance Service

Yoo Joo Jeong, Hwa Mok Jeon, Young Seok Ock and Seok Chan Jeong (Korea)*

B3-4

ICICIC2017-SS26-08

A Development of LoRa Network Based Parking Dispatching System: Queuing Theory and Q-Learning Approach

Youngho Cho and Dae-Yul Jeong (Korea)*

B3-5

ICICIC2017-124

Coordination for Preservation and Traceability Technology Investment in a Complex Food Supply Chain Considering Batch Dispersion

Min Wang, Shengnan Sun and Lindu Zhao (China)*

B3-6

ICICIC2017-135

Location Problem of the Customer Order Decoupling Point with Constrained Delivery Lead Time

Qingyi Fei and Lindu Zhao (China)*

August 30, Wednesday

8:50 – 10:50 Conference Room 3, 4F

C3: Sound System and Applications

Chairs: Prof. Shunsuke Ishimitsu, Dr. Masashi Nakayama (Hiroshima City University, Japan)

C3-1

ICICIC2017-SS06-01

Examination of Musical Effects on Gaze Patterns in Portrait Drawing

Gen Onishi, Ayaka Kochi, Hiroshi Arao, Syu Yorifuji, Akira Hasegawa
and Tsuyoshi Syoji (Japan)*

C3-2

ICICIC2017-SS06-02

Elucidation of Enhancement Phenomena of the Sound Pressure Level and Repetitive Components When Applying Pressure near the Sound Source

Yoshiharu Soeta (Japan)

C3-3

ICICIC2017-SS06-03

Influence of the Lombard Effect, Fletcher Effect and Band-Emphasized Auditory Feedback on Singing Voice

Satoshi Iijima, Shunsuke Ishimitsu and Masashi Nakayama (Japan)*

C3-4

ICICIC2017-SS06-04

Optimal Haar Wavelet Decompositions on Spherical Sound Fields

Kensuke Fujinoki (Japan)

C3-5

ICICIC2017-SS06-05

Objective Estimation of Pain Based on the Analysis of Biological Signals, Especially EEG

Daisuke Tanaka, Shunsuke Ishimitsu, Aya Nakae and Takahiro Soshi (Japan)*

C3-6

ICICIC2017-SS06-06

Active Noise Control with Multiple Adaptive Filter for Single Component in Acceleration

Yoshihiro Aramaki, Shunsuke Ishimitsu, Kenta Murai, Kazuki Yoshida
Toshihisa Takaki, Takanori Chino and Kenta Suzuki (Japan)*

C3-7

ICICIC2017-SS06-07

Basic Study of Sound Quality Control Based on Individual Preference

Kenta Murai, Shunsuke Ishimitsu, Yoshihiro Aramaki, Toshihisa Takaki
Takanori Chino, Kazuki Yoshida and Kenta Suzuki (Japan)*

C3-8

ICICIC2017-SS06-08

Effects of Active Control of Noise with Music on Subjective Auditory Impression and Brain Activity

Sakiko Tatsukami, Shunsuke Ishimitsu, Yoshiharu Soeta and Seiji Nakagawa (Japan)*

C3-9

ICICIC2017-SS06-09

The Clinical Application of Acoustic Analysis to Evaluation of Tongue Position

Kaori Ishii, Kimiko Yamashita, Katsuhiko Saitoh, Satoshi Horihata
and Kazutaka Kasai (Japan)*

August 30, Wednesday

8:50 – 10:50 Assembly Room 1, 5F

D3: Innovated Computation and Its Applications

Chairs: Prof. Lily Lin (China University of Technology, Taiwan)

Prof. Huey-Ming Lee (Chinese Culture University, Taiwan)

D3-1

ICICIC2017-SS16-01

The Applications of Processing Message Security in Computer System

Lily Lin, Huey-Ming Lee and Tsang-Yean Lee (Taiwan)*

D3-2

ICICIC2017-SS16-02

The Analysis of Corporate Social Responsibility and Financial Performance Using Rough Set Theory and Decision Tree – Evidence from China

Kuang-Hua Hu, Ming-Fu Hsu, Fu-Hsiang Chen and Kai-Ya Chang (China)*

D3-3

ICICIC2017-SS16-03

Discussion about Differentiation of Rough Function

Der-Chen Lin and Heng-Sheng Chen (Taiwan)*

D3-4

ICICIC2017-SS16-04

On Deep Learning to Learn User Rating from User Comments

Hendry, Rung-Ching Chen, Li-Hua Li and Qiangfu Zhao (Taiwan)*

D3-5

ICICIC2017-SS16-05

Financial Distress Prediction Using Data Mining Techniques

Sudian Chen and Stephen Jhuang (Taiwan)*

D3-6

ICICIC2017-SS16-06

Detection of Fraudulent Financial Statements Using Decision Tree and Artificial Neural Network

Chyan-long Jan and David Hsiao (Taiwan)*

D3-7

ICICIC2017-SS16-07

The Weaknesses and Light Improvement of Choi et al.'s Anonymous Multi-Server Authenticated Key Agreement Scheme Using Smart Cards and Biometric

Ping Yu and Wen-Gong Shieh (Taiwan)*

D3-8

ICICIC2017-SS16-08

The Weaknesses of Mishra et al.'s User Anonymity-Preserving Biometric-Based Multi-Server Authenticated Key Agreement Scheme Using Smart Cards

Wen-Gong Shieh and Ping Yu (Taiwan)*

August 30, Wednesday

8:50 – 10:50 Assembly Room 2, 5F

E3: Clustering and Data Mining

Chair: Prof. Yoshiyuki Yabuuchi (Shimonoseki City University, Japan)

E3-1

ICICIC2017-012

Knowledge Discovery and Visualization of Kidney-Related Pattern and Treatment Based on Attribute Partial-Ordered Structure Diagram

Enliang Yan, Jialin Song and Wenxue Hong (China)*

E3-2

ICICIC2017-063

Robust Clustering Based on K-means with Low-Rank Regularization

Xiaodong Wang, Rung-Ching Chen and Fei Yan (China)*

E3-3

ICICIC2017-159

What Makes Difference between Popular Games and Unpopular Games? Analysis of Online Game Reviews from Steam Platform Using Word2Vec and Bass Model

Sangho Ahn, Juyoung Kang and Sangun Park (Korea)*

E3-4

ICICIC2017-162

Cause and Effect Relationship Analysis Using Chain Independent Graph

Eri Domoto, Antonio Oliveira Nzinga Rene and Koji Okuhara (Japan)*

E3-5

ICICIC2017-171

Analysis of Prefectural Citizens' Leisure Time Using Interval Type Regression Model

Yoshiyuki Yabuuchi (Japan)

E3-6

ICICIC2017-176

Color Keyword Sentiments in German and Japanese Tweets

Daniel Moritz Marutschke (Japan)

E3-7

ICICIC2017-177

Design of Task Creation Support System for Motivation Improvement of Students

Junko Shibata, Koji Okuhara, Shintaro Mori and Shogo Shiode (Japan)*

August 30, Wednesday

8:50 – 10:50 Assembly Room 3, 5F

F3: Control System and Fault Detection

Chair: Prof. Xiaojie Su (Chongqing University, China)

F3-1

ICICIC2017-SS01-02

Saturated Sliding Mode Control Design: Application to PEM Fuel Cell Power Systems

*Jianxing Liu**, *Yabin Gao* and *Ligang Wu (China)*

F3-2

ICICIC2017-SS01-03

Fuzzy Model Based Fault Detection Filtering for Nonhomogeneous Markovian Jump Systems

*Chenglong Du** and *Fanbiao Li (China)*

F3-3

ICICIC2017-SS01-04

Event-Triggered Sliding Mode Controller Design for Switched Hybrid Systems

*Xinxin Liu** and *Xiaojie Su (China)*

F3-4

ICICIC2017-SS01-05

Fuzzy Controller Design for Switched Fuzzy Systems via Output Feedback Technique

*Fengqin Xia** and *Xiaojie Su (China)*

F3-5

ICICIC2017-SS01-06

Fuzzy Control of Nonlinear Systems via an Event-Triggered Mechanism

*Yao Wen** and *Xiaojie Su (China)*

F3-6

ICICIC2017-SS01-07

Fault Detection for Networked Switched Nonlinear Systems

*Bingna Qiao** and *Xiaojie Su (China)*

F3-7

ICICIC2017-SS01-08

Fractional Order Dynamic Adaptive Sliding Mode Control for Deployment of a Tethered Satellite System with Input Limitation

Guanghui Sun (China)

August 30, Wednesday

11:10 – 12:40 Conference Room 1, 4F

A4: Communication System and Circuits (1)

Chair: Dr. Amphawan Julsereewong (King Mongkut's Institute of Technology Ladkrabang, Thailand)

A4-1

ICICIC2017-SS11-01

Discrete-Time PIDA Controller Designed by Using Kitti's Method with Delayed First Order Hold Discretization

Teenapong Sungson, Pittaya Pannil, Prapart Ukakimaparn
and Thanit Trisuwannawat (Thailand)*

A4-2

ICICIC2017-SS11-02

Discrete-Time Posicast PID $\times (n - 2)$ Stage PD Cascade Controllers for Unstable System

Kittipat Pool-em, Pittaya Pannil, Prapart Ukakimaparn and Thanit Trisuwannawat (Thailand)*

A4-3

ICICIC2017-SS11-03

Analysis of Beat Frequency Detector Based on Basic Logic Gates

Anucha Kaewpoonsuk, Noppadon Sisuk, Krit Smerpitak
and Paramote Wardkein (Thailand)*

A4-4

ICICIC2017-SS11-04

Readout Circuit for Conductivity Measurement with Parasitic Resistance Compensation

Ratchanoo Katman, Wandee Petchmaneelumka, Apinai Rerkratn
and Anucha Kaewpoonsuk (Thailand)*

A4-5

ICICIC2017-SS11-05

Simple DC-Excited Resistance-to-Period Converter Using CFOAs

Anucha Kaewpoonsuk, Ratchanoo Katman and Apinai Rerkratn (Thailand)*

A4-6

ICICIC2017-SS11-06

Comparative Analysis between Control in the Host and Control in the Field in Terms of Safety and Availability for Foundation Fieldbus-Based Process Control

*Nophawach Whatphat, Thaksin Sangsuwan, Jirasak Chanwutitum
Teerawat Thepmanee and Amphawan Julsereewong* (Thailand)*

August 30, Wednesday

11:10 – 12:40 **Conference Room 2, 4F**

B4: Management Science and Engineering

Chair: Dr. Lijun Sun (Dalian University of Technology, China)

B4-1

ICICIC2017-SS18-01

A Real-Time Rolling Approach for Early Warning of the Abnormal Consumption of Oil

Lijun Sun, Fangfang Li, Yaxian Zhou and Xiangpei Hu (China)*

B4-2

ICICIC2017-SS18-02

Decision Making under Uncertainty When Continuity Axiom Is Not Satisfied

Yonggang Li and Xiangpei Hu (China)*

B4-3

ICICIC2017-SS18-03

A Real-Time Method for Identifying Abnormal Energy Consumption in Campus Buildings under Internet of Things

Fangfang Liu and Xiangpei Hu (China)*

B4-4

ICICIC2017-SS18-04

Research of Logistics Scheduling Problem for O2O Take-Out Delivery

Rui Ding, Yunfu Huo and Huipo Wang (China)*

B4-5

ICICIC2017-SS18-05

How the Monetary Affects the House Price?

Meng Du (China)

B4-6

ICICIC2017-049

Multiple Effects of Trust on Purchase Intention Based on the Technology Acceptance Model

Shuo Zhang and Jong-Ho Lee (China)*

August 30, Wednesday

11:10 – 12:40 Conference Room 3, 4F

C4: Scheduling, Simulation and Supply Chain Network

Chair: Prof. Byung Soo Kim (Incheon National University, Korea)

C4-1

ICICIC2017-SS30-01

A Study on a Supply Chain Network Problem with Independent Replenishment Cycles under Inventory Coordination

Young-Bin Woo, Sunwoong Jung and Byung Soo Kim (Korea)*

C4-2

ICICIC2017-SS30-02

A Study on the Effect of Setup Time in Two-Stage Assembly Flow Shop Scheduling Problem with Identical Parallel Machining Machines

Sunwoong Jung, Young-Bin Woo and Byung Soo Kim (Korea)*

C4-3

ICICIC2017-SS30-03

Supply Chain Disruption Analysis in the Multi-Echelon System Using Discrete Event Simulation

Hyungi Jeong, Taehyung Park, Dae-hwan Kim and Soohyung Cho (Korea)*

C4-4

ICICIC2017-SS30-04

Effects of Meniere's Disease on the Hearing Sensitivity

Yoonkyung Oh, Seongho Mo, Jongwun Choi and Namkeun Kim (Korea)*

C4-5

ICICIC2017-SS30-05

Identifying Technology Opportunities Based on Internal Capabilities and Technical Suitability

Junhyeok Park, Seung-Jun Shin, Pyunghoi Koo and Wonchul Seo (Korea)*

C4-6

ICICIC2017-SS30-07

Integration of Environmentally-Conscious Transportation Model with Life Cycle Assessment in Reverse Logistics

Ki-Hong Kim, Wonchul Seo and Seung-Jun Shin (Korea)*

August 30, Wednesday

11:10 – 12:40 Assembly Room 1, 5F

D4: Control System and Applications (1)

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

D4-1

ICICIC2017-018

Adaptive Neural Control for MIMO Nonlinear Systems with Unknown Dead Zone Based on Observers

Honghong Wang, Bing Chen, Chong Lin, Yumei Sun and Fang Wang (China)*

D4-2

ICICIC2017-037

Discretization Algorithm Based on the Minimum Gini Index and the Optimization on Formal Context

Jialin Song, Huaixin Liang and Wenxue Hong (China)*

D4-3

ICICIC2017-078

The Class of Strongly Stabilizable Plants

Tatsuya Hoshikawa, Jinghui Li, Yuuko Tatsumi, Takaaki Suzuki and Kou Yamada (Japan)*

D4-4

ICICIC2017-079

The Parameterization of All Robust Stabilizing Simple Repetitive Controllers for Multiple-Input/Multiple-Output Plants

Yinglu Lyu, Tatsuya Sakanushi, Takaaki Suzuki and Kou Yamada (Japan)*

D4-5

ICICIC2017-129

Mechanical Properties Investigation of Aluminum Alloy Components Included in TETRIX to Ensure the Safety of Demonstration Equipment for Automatic Control Theory

Yu Yamada, Ryosuke Suzuki, Takaaki Suzuki, Masaaki Matsubara and Kou Yamada (Japan)*

D4-6

ICICIC2017-142

Evolving Fuzzy Logic Rule-Based Game Player Model for Game Development

Varunyu Vorachart and Hideyuki Takagi (Japan)*

August 30, Wednesday

11:10 – 12:40 Assembly Room 2, 5F

E4: Human Science for Intelligent Systems (1)

Chair: Dr. Ritsuko Imamura (Fukuoka University, Japan)

E4-1

ICICIC2017-SS17-01

Estimation of Blood Drug Concentration by Fusing Pharmacological Model and Computational Intelligence

Kazuya Hirayu, Shota Tanabata, Hideaki Orii, Hideaki Kawano and Yasuhiro Tsuji (Japan)*

E4-2

ICICIC2017-SS17-02

A Study on Difference of EEG Data between Healthy and Developmentally Disabled Subjects in Facial Perception and Imitation Task

Yuma Omori, Akinori Seo and Hideaki Kawano (Japan)*

E4-3

ICICIC2017-SS17-03

Efficacy of an Exercise Program to Prepare People with Severe Intellectual Disabilities for a Physical Fitness Test

Mizuki Sakamoto, Ritsuko Imamura, Kiyohisa Natsume and Takeshi Yamakawa (Japan)*

E4-4

ICICIC2017-SS17-04

Effects of an Applied Behavior Analysis-Based Intervention on People with Extremely Severe Intellectual Disabilities Displaying Aversion to Exercise

Ritsuko Imamura, Takeshi Yamakawa and Mizuki Sakamoto (Japan)*

E4-5

ICICIC2017-SS17-05

Can the Control of Intracerebral Hormone Complement the Psychiatric Diagnosis and Therapeutic Approach?

Yoshiaki Inoue and Toru Yukimasa (Japan)*

E4-6

ICICIC2017-168

An Innovative Deep Machine for Human Behavior Analysis

Thi Thi Zin, Pyke Tin and Hiromitsu Hama (Japan)*

August 30, Wednesday

11:10 – 12:40 Assembly Room 3, 5F

F4: Advances in Control Systems (1)

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

F4-1

ICICIC2017-003

Design of Automatic Control for Surface Cleaning Systems of Photovoltaic Panel
Syafaruddin, Faizal Arya Samman, Muslimin and Satriani Latief (Indonesia)*

F4-2

ICICIC2017-009

Research on Integrating PCB Solder Joint Extraction Method Based on Pixel Information
for PCB Insulation Packaging System
Qian Wu, Fei Xie, Jing Zhao, Jianfei Yang and Weixing Qian (China)*

F4-3

ICICIC2017-076

A Study on Application Method of Motor Control Learning System to Improve Learning Effect
Hiroshi Shiratsuchi, Yukiya Hamana, Kozo Horiuchi and Nobuhiro Kyura (Japan)*

F4-4

ICICIC2017-084

Fault Tolerant Control Based on Dynamic Sliding Mode for Space Manipulator
Jing Zhao, Fei Xie, Xian Wang and Zhifeng Gao (China)*

F4-5

ICICIC2017-116

Trial Production of Vertical Take-Off and Landing Aircraft Based on Y4 Quadcopter with Tilt
Coaxial Rotors and Fixed Delta Wing
Kiyoteru Hayama, Takaaki Ishibashi and Hiroki Irie (Japan)*

F4-6

ICICIC2017-120

ADL Identification Method with DTFRM Considering the Knowledge Radius
Bo Shen and Shuoyu Wang (Japan)*

August 30, Wednesday

13:40 – 15:40 Conference Room 1, 4F

A5: Communication System and Circuits (2)

Chair: Dr. Amphawan Julserewong (King Mongkut's Institute of Technology Ladkrabang, Thailand)

A5-1

ICICIC2017-SS11-07

Design and Implementation of Internet-Based Remote Monitoring for Sugar Vacuum Pans in Sugar Factory

Sawai Pongswatd, Krit Smerpitak, Songchai Weerathaweemas and Saithan Chamnanakson (Thailand)*

A5-2

ICICIC2017-SS11-08

Uncertainty Analysis for Determination of Long-Term Drift and Mounting Position of Calibrated Pressure Transmitters

Nareerat Chummano, Prayuth Chummano and Teerawat Thepmanee (Thailand)*

A5-3

ICICIC2017-SS11-09

SIL Assessment for Tail Gas Treating Process Using Layer of Protection Analysis

Jirawat Poomhuang, Prasit Julserewong and Teerawat Thepmanee (Thailand)*

A5-4

ICICIC2017-SS11-10

Condition Monitoring Based on Failure Modes and Effects Analysis Using SCADA Software for WirelessHART Devices

Teerawat Thepmanee, Sart Kumool and Sawai Pongswatd (Thailand)*

A5-5

ICICIC2017-101

ECG Characterization of Sinus Bradycardia and Ventricular Flutter Using Malthusian Parameter and Recurrence Plot

Hayato Ueno, Yusuke Totoki and Takami Matsuo (Japan)*

A5-6

ICICIC2017-102

Disturbance Estimation of Quadrotor Using Auto-Tuning Adaptive Update Law

Taishi Kodama, Yu Hodate, Haruo Suemitsu and Takami Matsuo (Japan)*

A5-7

ICICIC2017-137

Development of Electric Field Communication Device Using Aqueduct

Yuki Yoshino and Mizuki Murashima (Japan)*

August 30, Wednesday

13:40 – 15:40 Conference Room 2, 4F

B5: Optimization and Decision Making Models in Management Problems

Chair: Dr. Junhu Ruan (Northwest A&F University, China)

B5-1

ICICIC2017-SS05-01

A Simulated Plant Growth Algorithm for Dynamic Vehicle Scheduling Problem

Yingchen Wang, Wujuan Zhai and Xiaoxiao Geng (China)*

B5-2

ICICIC2017-SS05-02

Multi-Objective Optimization Design of Low-Carbon Products Based on User-Driven in Parts Recycling: Example from Smartphone Industry

Qingchun Meng, Tianxiao Lu, Wenji Zhang, Zhen Zhang and Xiaoxia Rong (China)*

B5-3

ICICIC2017-SS05-03

System Simulation Research on the Dynamic Governance Relationships of Water Conservancy Project Stakeholders

Fang Liu and Wang Miao (China)*

B5-4

ICICIC2017-SS05-04

Model and Application of City Modern Agriculture Evaluation Based on G1 and Variation Coefficient Methods

Baofeng Shi, Jiaqi Zhang, Juan Liu, Xiaoling Wang and Jing Wang (China)*

B5-5

ICICIC2017-SS05-05

Emergency Decision of Express Logistics Enterprises for the Online Shopping Promotions

Jianghua Zhang, Jiaming Li, Ruirui Yin and Hailong Liu (China)*

B5-6

ICICIC2017-SS05-06

A Recovery Method on Updated Transfer Centers in Emergency Intermodal Transportation

Junhu Ruan, Felix T. S. Chan, Xuping Wang, Jun Zhang and Xiaofeng Zhao (China)*

B5-7

ICICIC2017-SS05-07

A Risk Pre-Warning Mechanism of Chinese High-Tech Industries Based on International Intellectual Property Barriers

Minhao Jin, Yan Zhang and Xiaofan Li (China)*

August 30, Wednesday

13:40 – 15:40 Conference Room 3, 4F

C5: Signal and Information Processing

Chair: Dr. Takaaki Ishibashi (National Institute of Technology, Kumamoto College, Japan)

C5-1

ICICIC2017-033

An Alternative Handling Method of Window Initial Condition for Finite Memory Structure Filter
Pyung Soo Kim and Seok Joon Kwon (Korea)*

C5-2

ICICIC2017-081

Dynamic Axial Crushing of Metallic Tubes with Wall-Supporting Stiffeners
Naveed Ahmed, Pu Xue, Muhammad Kamran and Ammara Mustafa (China)*

C5-3

ICICIC2017-096

Numerical Dynamic Axial Crushing of Bi-tubular Metallic Cylindrical Tubes with Stiffeners
Muhammad Kamran, Pu Xue, Naveed Ahmed and Ahmed Abdul Ghaffar Hanif (China)*

C5-4

ICICIC2017-111

Blind Source Separation and Target Speech Extraction for Acoustic Signals
Takaaki Ishibashi, Sonoko Nakao and Kazuo Nagata (Japan)*

C5-5

ICICIC2017-112

Silent Interval Detection and Target Human Speech Extraction
Kana Higuchi, Chiharu Okuma and Takaaki Ishibashi (Japan)*

C5-6

ICICIC2017-117

Two-Channel Microphone System with Variable Arbitrary Directional Pattern
Chiharu Okuma, Kiyoteru Hayama and Takaaki Ishibashi (Japan)*

C5-7

ICICIC2017-136

Low-Cost and Small-Size EMG Signal Measurement Device for Electric Wheelchair Control
Hirohito Shintani, Yu Oshiro, Kazuo Nagata and Takaaki Ishibashi (Japan)*

C5-8

ICICIC2017-156

Algorithm of Signal Source Localization via Sensor Networks
Lianming Sun and Xinyu Liu (Japan)*

August 30, Wednesday

13:40 – 15:40 Assembly Room 1, 5F

D5: Control System and Applications (2)

Chair: Prof. Chao Zhang (Northwestern Polytechnical University, China)

D5-1

ICICIC2017-166

An Esper-Based Filtering System for Real-Time Data Streams

Sebin Park, Sanghun Lee, Myeong-Seon Gil and Yang-Sae Moon (Korea)*

D5-2

ICICIC2017-170

A Storm-Based Distributed Framework for Binary Bernoulli Sampling

Wonhyeong Cho, Sanghun Lee, Siwoon Son and Yang-Sae Moon (Korea)*

D5-3

ICICIC2017-038

Application of Partitioned Self-Adaption Variable Step Size MPPT Algorithm in PV System

Geng Chen, Xiucheng Dong, Sha Dai, Haoran Li and Ke Peng (China)*

D5-4

ICICIC2017-042

Reliability Degradation Formula Based on the Subsystems of the Generalized Arrangement Graph

Tzu-Liang Kung (Taiwan)

D5-5

ICICIC2017-087

Exploration of Multi-Brainwave System Mainframe Design

Shao-Kuo Tai, Liao-Chong Yan and Rung-Ching Chen (Taiwan)*

D5-6

ICICIC2017-141

Compensating for Production Disruptions Considering Dynamic Demand Learning

Xiaomei He, Shanshan Li, Yong He, Lili Ren and Xueqin Zhang (China)*

D5-7

ICICIC2017-160

Dimension Reduction Method for Data-Driven PHM System Based on ULDA Algorithm

Chao Zhang, Erwei Li, Liang Liu and Yong Zhou (China)*

D5-8

ICICIC2017-175

Coordination and Drive Control System for the Six Degree of Freedoms Motion Platform

Yong Zhou, Jiayao Wang, Yanting Han and Chao Zhang (China)*

August 30, Wednesday

13:40 – 15:40 Assembly Room 2, 5F

E5: Human Science for Intelligent Systems (2)

Chair: Prof. Masaaki Tamagawa (Kyushu Institute of Technology, Japan)

E5-1

ICICIC2017-SS17-06

Simulation of Platelet Aggregation on the Wall of Orifice Flow by Dissipative Particle Dynamics Accelerated by OpenMP

Yingming Yi and Masaaki Tamagawa (Japan)*

E5-2

ICICIC2017-SS17-07

Effects of Flow Asymmetry on Thrombus Formation and Hemolysis Properties in the Pipe Orifice Flow by CFD Analysis

Chiharu Hirayama, Yuko Miyamura and Masaaki Tamagawa (Japan)*

E5-3

ICICIC2017-SS17-08

Estimation of Agent's Learning Parameters from Its Learning Process and Methodology for Design of Rewards

Ippei Mori, Tetsuo Furukawa and Keiichi Horio (Japan)*

E5-4

ICICIC2017-SS17-09

A Significant Correlation between Scores in Sociality and Exam Implies the Enhancement of the Power of Lecture through Student Status Visibility and Instructor's Feedback with the Assistance of 'Key Words Meeting'

Hiroaki Wagatsuma and Doosub Jahng (Japan)*

E5-5

ICICIC2017-SS17-10

An Ontology-Based Knowledge Representation toward Solving Bongard Problems

Jisha Maniamma and Hiroaki Wagatsuma (Japan)*

E5-6

ICICIC2017-SS17-11

A Narrative Speech, Gaze and Gesturing Robot Accessing to Human Emotion and Memory Which Is Investigated by Using a Simultaneous Recording of Electroencephalogram and Eye-Tracker System

Aravind Muthusamy, Gagandeep Kaur, Rohit Gupta, Vihang Agarwal, Sayaka Nakayama Mayu Ichiki, Jisha Maniamma, Bishakh Bhattacharya and Hiroaki Wagatsuma (Japan)*

E5-7

ICICIC2017-075

Location-Based Augmented Reality for Exploration of Cultural Heritage

Tsun-Hung Tsai and Lai-Chung Lee (Taiwan)*

E5-8

ICICIC2017-161

A Method to Distinguish between Patients with Hemiplegic Stroke and Others Using Linear Distribution of Frequency Analysis of Acceleration of Gait and Back Propagation

Shigeyoshi Nakajima, Mitsuhiro Ikebuchi and Tetsuya Sugawara (Japan)*

August 30, Wednesday

13:40 – 15:40 Assembly Room 3, 5F

F5: Advances in Control Systems (2)

Chair: Dr. Takao Sato (University of Hyogo, Japan)

F5-1

ICICIC2017-SS09-01

Simple Optimal PID Tuning Method Based on Assigned Robust Stability –Seamless Servo/Regulation Trade-off Design–

Ryo Kurokawa, Naoya Inoue, Takao Sato, Orland Arrieta, Ramon Vilanova and Yasuo Konishi (Japan)*

F5-2

ICICIC2017-SS09-02

Study on On-Demand Type Feedback Control System under Noisy Environment

Akira Yanou (Japan)

F5-3

ICICIC2017-SS09-03

Detection of Robotic Forceps Contact with an Organ Using Forced Shaft Oscillation

Shintaro Nakatani, Kyosuke Taniguchi and Shin-Ichiro Nishida (Japan)*

F5-4

ICICIC2017-SS09-04

High-Gain Adaptive Feedback Control with a Self-Repairing Function Based on Resonance

Masanori Takahashi (Japan)

F5-5

ICICIC2017-SS09-05

Control of a Magnetic Levitation System by ASPR Based Adaptive Output Feedback Control with an Adaptive Parallel Feedforward Compensator

Ikuro Mizumoto, Nobuyuki Kawabe, Masato Sano and Masahito Hayashida (Japan)*

F5-6

ICICIC2017-057

Tracking Control for Omnidirectional Rehabilitative Training Walker with Center of Gravity Shift and Fault Input

Hongbin Chang, Shuoyu Wang, Ping Sun and Bo Shen (Japan)*

F5-7

ICICIC2017-080

A Design Method for Stabilizing Modified Smith Predictor for Non-Minimum-Phase Unstable Time-Delay Plants

Xiaofu Zhang, Nghia Thi Mai, Takaaki Suzuki and Kou Yamada (Japan)*

F5-8

ICICIC2017-174

Two-Dimensional Obstacle Avoidance Behavior Based on Three-Dimensional Environment Map for a Ground Vehicle

Hiroki Bingo and Hiroshi Ohtake (Japan)*

August 30, Wednesday

16:00 – 18:00 Conference Room 1, 4F

A6: Image Processing

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

A6-1

ICICIC2017-041

Green Screen Matte Refinement with Multiple Filters

Thanathorn Phoka (Thailand)

A6-2

ICICIC2017-064

Object Tracking with Superpixel-Based Model

Shinfeng D. Lin and Dung-Han Yang (Taiwan)*

A6-3

ICICIC2017-126

Identifying Students and Accuracy Improvement on Automatic Response Analyzer

Keitaro Yoshikawa, Keisuke Yamada and Hiroshi Kamada (Japan)*

A6-4

ICICIC2017-128

Color Learning System with Color Analysis Function

Tomohisa Ishikawa and Hiroshi Kamada (Japan)*

A6-5

ICICIC2017-139

Texture Classification Based on Complex Network Model with Spatial Information

Srisupang Thewsuwan and Keiichi Horio (Japan)*

A6-6

ICICIC2017-145

Classification of Shape Images Using K-means Clustering and Deep Learning

Swe Zar Maw, Thi Thi Zin, Mitsuhiro Yokota and Ei Phyo Min (Japan)*

A6-7

ICICIC2017-151

A Novel Log-Based Weighted 2DLDA Algorithm for Face Recognition

Yongjie Chu and Lindu Zhao (China)*

A6-8

ICICIC2017-155

Multi-Object Recognition Based on 2DHOG with Variable Window Approach

Ryo Kawanami and Kousuke Matsushima (Japan)*

August 30, Wednesday

16:00 – 18:00 Conference Room 2, 4F

B6: Intelligent Informatics and Systems

Chair: Dr. Junhu Ruan (Northwest A&F University, China)

B6-1

ICICIC2017-071

An Approach to Defining and Identifying Logging System Patterns for Infrastructure as a Service Cloud

Winai Wongthai and Aad van Moorsel (Thailand)*

B6-2

ICICIC2017-077

All-Pairwise Multiple Comparison for Multivariate Normal Covariance Matrices Based on the Single Step Procedure

Tsunehisa Imada (Japan)

B6-3

ICICIC2017-100

A Stable Decoding Algorithm Based on Circular Coded Target

Yu Zeng, Xiucheng Dong, Fan Zhang and Dan Zhou (China)*

B6-4

ICICIC2017-154

A Method for Detecting Werewolves in the Werewolf Game Based on Vector Representations of Words

Atsushi Ueno, Masaki Sakamoto and Tomohito Takubo (Japan)*

B6-5

ICICIC2017-056

Route Choice Behavior Model with Guidance Information Based on FAHP

Yanbing Yang, Jianmin Li, Bin Liu, Xiangfei Kong and Yan Shi (China)*

B6-6

ICICIC2017-060

The Research on Ocean Current Inversion Algorithm Based on X-Band Radar

Zhizhong Lu, Rong Zhou, Yujian Yuan and Xin Wu (China)*

B6-7

ICICIC2017-048

Joints Position Approach for Satellite Antenna Attitude Stabilization System Based on Constant Rotation Ratio

Peng Wu, Guang Chen and Baiyin Ding (China)*

B6-8

ICICIC2017-097

Study on Evaluation Method of Sea Surface Temperature Performance of a Shipboard Radiometer

Shitong Chen, Liyuan Gao and Zhibin Zhang (China)*

August 30, Wednesday

16:00 – 18:00 Conference Room 3, 4F

C6: Network and Communication Systems

Chair: Prof. Noritaka Shigei (Kagoshima University, Japan)

C6-1

ICICIC2017-016

A Novel Joint Channel Assignment Scheme for Cognitive Radio Wireless Sensor Networks

Yihan Xu, Jiaxin Zhu, Yuan Ma, Chenming Liu and Jing Tao (China)*

C6-2

ICICIC2017-055

Construction Method of ZigBee Network by Search Algorithms Using Angle Modulation Function

Kazuki Yoshida, Daichi Sugimoto and Akihide Utani (Japan)*

C6-3

ICICIC2017-083

A Malware Detection Method Based on OC-SVM Focusing on Features of PDF Files

Mai Iwamoto, Shunsuke Oshima and Takuo Nakashima (Japan)*

C6-4

ICICIC2017-118

An Incentive Based Piece Diffusion Method Considering Peer Performance in BitTorrent

Yusaku Tsukuda and Akihide Utani (Japan)*

C6-5

ICICIC2017-119

Growing Differential Evolution Method Using Ranking Information of Search Points

Tsukasa Mannen and Akihide Utani (Japan)*

C6-6

ICICIC2017-123

Power Saving Mobile Sensor Networks by Dynamic Relay Communications

Shingo Enami, Kazuki Yoshida, Ryu Naganuma and Akihide Utani (Japan)*

C6-7

ICICIC2017-134

Implementation of the Classification System of E-mail with Attached Diverse Files to Detect Malware Files

Akira Morimoto and Takuo Nakashima (Japan)*

C6-8

ICICIC2017-144

Implementation of the Performance Evaluation and Observation System for Web Server under Attacks

Hiroto Nakashima and Takuo Nakashima (Japan)*

August 30, Wednesday

16:00 – 18:00 Assembly Room 1, 5F

D6: Evolutionary Computing

Chair: Dr. Jun-ichi Kushida (Hiroshima City University, Taiwan)

D6-1

ICICIC2017-051

PAnDE: Averaged n -Dependence Estimators for Positive Unlabeled Learning

Fuyi Li, Jiangning Song, Chen Li, Tatsuya Akutsu and Yang Zhang (Australia)*

D6-2

ICICIC2017-093

Integrated Optimizing of Berth Allocation and Yard Space Assignment in Container Terminals

Zigen Chen and Qingcheng Zeng (China)*

D6-3

ICICIC2017-108

Improving the Search Performance of Rank-Based Differential Evolution with Multivector Mutation

Jun-ichi Kushida, Akira Hara and Tetsuyuki Takahama (Japan)*

D6-4

ICICIC2017-125

A Profit Sharing Method for Secure Multiparty Computation

Hirofumi Miyajima, Noritaka Shigei, Hiromi Miyajima and Norio Shiratori (Japan)*

D6-5

ICICIC2017-165

Suppression of Isolated Clusters Occurrence in Self-Organizing Map Considering the Distance on Data Space

Keiji Kamei and Shinji Kawakami (Japan)*

D6-6

ICICIC2017-169

Pattern Recognition through Particle Swarm Optimization and Deep Neural Network for Mixed Reality

Takeshi Matsui and Koji Okuhara (Japan)*

D6-7

ICICIC2017-173

Coalitional Game-Theoretic Model for Inventory Management

António O. N. René, Takashi Tanizaki, Nobuyuki Ueno, Eri Domoto and Koji Okuhara (Japan)*

D6-8

ICICIC2017-178

An Application of Genetic Algorithm to Evacuation Route Planning for ICT-Based Disaster Prevention Design Aiming at Real-World Implementation

Hiroshi Wakuya, Ryoki Nishimura, Hideaki Itoh, Nobuo Mishima, Sang-Hoon Oh and Yong-Sun Oh (Japan)*

August 30, Wednesday

16:00 – 18:00 Assembly Room 2, 5F

E6: Robotics and Motion Control/Knowledge Discovery

Chair: Dr. Yina Wang (Shenyang University of Technology, China)

E6-1

ICICIC2017-SS15-01

Linguistic Analysis Based on the Corpora of English Abstracts

Minxuan Feng, Xiaoshuang Wu, Mengting Sun and Beibei Xu (China)*

E6-2

ICICIC2017-SS15-02

Research on Construction of Patent Dynamic Technology Effect Matrix

Yao Liu and Yi Huang (China)*

E6-3

ICICIC2017-SS15-03

A Double-View System for Chinese Syntactic Parsing and Visualization Proofreading

Likun Qiu and Dekuan Xu (China)*

E6-4

ICICIC2017-SS15-04

Research on Mathematical Formula Knowledge Base for Formula Recognition

Zhijun Guo and Yao Liu (China)*

E6-5

ICICIC2017-SS15-06

Research on Code Knowledge Base Oriented to Software Generation

Aijing Jia, Yao Liu and Yi Huang (China)*

E6-6

ICICIC2017-104

Recognition and Analysis of Abnormal Gait in Active Walking Rehabilitation Training

Donghui Zhao, Junyou Yang, Yina Wang and Shuoyu Wang (China)*

E6-7

ICICIC2017-122

Path Tracking Control of an Indoor Transportation Robot Utilizing Future Information of the Desired Trajectory

Yina Wang, Junyou Yang and Shuoyu Wang (China)*

E6-8

ICICIC2017-130

A Novel Direction-Intent Recognition Scheme Based on 2D Laser for Omni-Direction Walking Assist Robot

Junyou Yang, Chunwei Yu, Yina Wang and Donghui Zhao (China)*

E6-9

ICICIC2017-164

Composite Anti-Disturbance Control for Singular Stochastic Markovian Jump System

Yankai Li and Mou Chen (China)*