

Technical Sessions

August 21, Tuesday

13:40 – 15:40 Rosy Clouds Hall, 4F

A1: Human Science for Intelligent Systems

Chair: Prof. Toru Yukimasa (University of Occupational and Environmental Health, Japan)

A1-1

ICICIC2018-SS09-01

The Possibility of Applying the Quantum Theory to the Science of the Consciousness

– A Preliminary Report

Toru Yukimasa (Japan)

A1-2

ICICIC2018-SS09-02

The Necrotization of Lentigines by the Cryoprobe

Takeshi Yamakawa and Masayo Omaru (Japan)*

A1-3

ICICIC2018-SS09-03

The Study on Response Time and Duration of Acupuncture Effect for Five Kinds of Physical Stimuli –Quantification of the Effect by Finger-Floor Distance (FFD)–

Tetsuya Yoneda and Takeshi Yamakawa (Japan)*

A1-4

ICICIC2018-SS09-04

Effects of Impinging Jet Flow on Platelets Adhesion by CFD Analysis with Consideration of Particle Motion for Predicting Thrombus Formation

Shohei Nakata, Yuko Miyamura and Masaaki Tamagawa (Japan)*

A1-5

ICICIC2018-011

Semi-Active Redundant Fault Tolerant Control for an Omnidirectional Rehabilitative Training Robot with Center of Gravity Shift

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

A1-6

ICICIC2018-052

Pose Estimation of Daily Containers for a Life-Support Robot

Guang Yang, Shuoyu Wang, Junyou Yang, Bo Shen and Peng Shi (Japan)*

A1-7

ICICIC2018-098

Analysis of Reading Experience with Heart Rate Variability and Galvanic Skin Response Sensor

Fan Zhang and Hajime Murao (Japan)*

A1-8

ICICIC2018-127

Effect of Characteristic of Information in Multi-Agent System on Total Rewards

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

August 21, Tuesday

13:40 – 15:40 Nebulous River Hall, 4F

B1: Smart Production and Digital Manufacturing

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

B1-1

ICICIC2018-SS01-01

Sensory Channel Effects of Autonomous Sensory Meridian Response on Short-Term Memory

*Donghwan Kim, Taeyoung Kim, Gangseok Seo, Min Hee Shin, Yun Jae Lee
and Wonil Hwang* (Korea)*

B1-2

ICICIC2018-SS01-02

A Study on a Method for Automation of Road Crack Detection in Korea

Yunjung Shin and Dongsoo Kim (Korea)*

B1-3

ICICIC2018-SS01-03

A Case Study of PHR System Implementation in Korea

Junho Moon, Sangsoo Lee, Jeewon Byun, Jong Soo Choi and Dongsoo Kim (Korea)*

B1-4

ICICIC2018-SS01-04

The Optimal Purchasing Time of Agricultural Products under the Government's Price Intervention

Jae-Dong Son, Hyun-Soo Yoo and Hee-Su Bae (Korea)*

B1-5

ICICIC2018-SS01-05

Implementation of Smart Factory of SME: A Case of Data Acquisition and Monitoring

Tai-Woo Chang, Eunnuri Cho, Ji-Hye Jun and Hyun Ahn (Korea)*

B1-6

ICICIC2018-SS01-06

IoT-Based Prototype of Smart Factory Equipment in the Steel Yard

HaeKyung Lee and Taioun Kim (Korea)*

B1-7

ICICIC2018-SS01-07

Development of Port Logistics Diagnostics System

Young-Tae Park, Hyun-Sik Kim, Jaemin Kim and Gyusung Cho (Korea)*

August 21, Tuesday

13:40 – 15:40 Nebulous Mountain Hall, 4F

C1: Communication System and Circuits

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

C1-1

ICICIC2018-SS07-01

Closed-Form Formulas for Continuous/Discrete-Time PIDAJ Controller's Parameters
Prapart Ukakimarn, Thanit Trisuwannawat, Kitti Tirasesth and Pittaya Pannil (Thailand)*

C1-2

ICICIC2018-SS07-02

Integration of HART and FF H1 Devices into Distributed Control System for Feedforward Control in Revamping Existing Plants
Teerawat Thepmanee, Amphawan Julsereewong and Sawai Pongswatd (Thailand)*

C1-3

ICICIC2018-SS07-03

Analysis of Macrocycle Schedules for an Alternative of FF-Based Feedforward Control
Amphawan Julsereewong and Pittaya Pannil (Thailand)*

C1-4

ICICIC2018-SS07-04

Internet-Based Conductivity Measurement System with Self-Temperature Compensation
Ratchanoo Katman, Apinai Rerkratn and Anucha Kaewpoonsuk (Thailand)*

C1-5

ICICIC2018-SS07-05

An Op-Amp Interface Circuit for Resistive Sensor with Lead-Wire-Resistance Compensation
Anucha Kaewpoonsuk, Ratchanoo Katman and Apinai Rerkratn (Thailand)*

C1-6

ICICIC2018-SS07-06

Real-Time Remote Monitoring and Alerting System Using Low-Cost IoT Platform for Odor Control Scrubbers
Krit Smerpitak, Weeradetch Pinthong and Amphawan Julsereewong (Thailand)*

C1-7

ICICIC2018-SS07-07

HMI Implementation Using Radar Chart for Dual-Loop System
Sart Kummool, Krit Smerpitak and Sawai Pongswatd (Thailand)*

August 21, Tuesday

13:40 – 15:40 Nebulous Sky Hall, 4F

D1: Computer Technologies for Intelligent Systems (1)

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

D1-1

ICICIC2018-SS05-01

Fatality Rate Analysis of Major and Extraordinary Road Traffic Accidents Based on C4.5 Decision Tree Algorithm

Tao Chen, Meidan Wu and Chu Zhang (China)*

D1-2

ICICIC2018-SS05-02

Drivers' Lane Change Recognition Based on Hopfield Neural Network

Chen Zhao and Jiantao Liu (China)*

D1-3

ICICIC2018-SS05-03

Urban Traffic Accident-Prone Section Identification & Analysis System Based on GIS Space Clustering

Xingpei Yan, Lang Wei and Wangfang Yuan (China)*

D1-4

ICICIC2018-SS05-04

A New Risk Estimation Model of Bayesian Network for Adapting to Driving Environment Changing

Zhong Zhang, Taira Furuichi, Takuma Ueda, Takuma Akiduki and Tomoaki Mashimo (Japan)*

D1-5

ICICIC2018-SS05-05

Feature Extraction for Gait Identification by Using Trajectory Attractors

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

D1-6

ICICIC2018-SS05-06

A Novel Deep Learning Optimization Algorithm for Human Motions Anomaly Detection

Yuto Omae, Masaya Mori, Takuma Akiduki and Hirotaka Takahashi (Japan)*

August 21, Tuesday

13:40 – 15:40 Nebulous Sea Hall, 4F

E1: Advances in Control Systems

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

E1-1

ICICIC2018-084

Embedded Controller Based Learning System for DC Motor Control

Takanori Matsuzaki, Osman Elfadil, Kozo Horiuchi, Hiroshi Shiratsuchi
and Koichiro Mashiko (Japan)*

E1-2

ICICIC2018-088

State Space Design Method for Left Filtered Inverse Systems for Non-Linear Systems

Yosuke Kimura, Kotaro Hashikura, Takaaki Suzuki and Kou Yamada (Japan)*

E1-3

ICICIC2018-091

Interval-Valued Financial Time Series Prediction Based on Improved Elman Neural Network

Degang Wang, Bingce Zhang, Wei Zhou and Wenyan Song (China)*

E1-4

ICICIC2018-100

The Characteristic of All Strongly Stabilizable MIMO Plants

Dayu Zhang, Kotaro Hashikura, Takaaki Suzuki and Kou Yamada (Japan)*

E1-5

ICICIC2018-102

Studies on Development of Motor Control Learning System as a Web Application

Kozo Horiuchi, Takanori Matsuzaki and Hiroshi Shiratsuchi (Japan)*

E1-6

ICICIC2018-107

Decentralized Self-Repairing Control Based on a Resonance Phenomenon

Masanori Takahashi (Japan)

E1-7

ICICIC2018-110

The Characteristic of Simultaneously Stabilizing Controllers for Two-Stage Compensator Systems

Tatsuki Morikawa, Nicha Wongyimyong, Kotaro Hashikura, Takaaki Suzuki
David Banjerdpongchai and Kou Yamada (Japan)*

August 21, Tuesday

16:00 – 18:00 Rosy Clouds Hall, 4F

A2: Environmental Biotechnology and Management

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

A2-1

ICICIC2018-SS02-01

Effect of Light Qualities from Different LED Light Sources on the Growth of Four Leaf Lettuce Cultivars

Takanori Minamida, Shinya Sasahara, Yusei Tashiro, Kazuki Yoshida, Yuki Tabata and Masako Akutsu (Japan)*

A2-2

ICICIC2018-SS02-02

A Remark on Europe in the 18th Century, from the Viewpoint of Environmental Issues

Yoichi Hirano and Takuo Nakashima (Japan)*

A2-3

ICICIC2018-SS02-03

The Features of Indicators of the Environment-Related QOL (Quality of Life)

Takuo Nakashima and Yoichi Hirano (Japan)*

A2-4

ICICIC2018-SS02-04

Keyword Relation of Leisure Tourism Based on Environmental Related-QOL Using SNS Information

Soji Lee (Japan)

A2-5

ICICIC2018-080

Similarity and Event Detection by Behavior Pattern Analysis from Environment Recognition Life Log

Eri Domoto, Junko Shibata, Mizuki Fukushima and Koji Okuhara (Japan)*

A2-6

ICICIC2018-131

Innovation Model for Regional Revitalization

Toshihiko Gima (Japan)

August 21, Tuesday

16:00 – 18:00 Nebulous River Hall, 4F

B2: ICT Technology Applications

Chair: Prof. Kwanghoon Pio Kim (Kyonggi University, Korea)

B2-1

ICICIC2018-SS08-01

Forecasting the Disposal Trend of End-of-Life Consumer Electronics Considering Environmental Factors

Hyunsoo Kim and Kiwoong Park (Korea)*

B2-2

ICICIC2018-SS08-02

Comparison of Affective Perception of Bitcoin between Korea and China

Suhwan Jung, Jaehyun Park, Lin Wang and Ari Widyanti (Korea)*

B2-3

ICICIC2018-SS08-03

Visualizing Hierarchical Properties of Business Process Entities

Hyun Ahn, Kyoungsook Kim, Tai-Woo Chang and Kwanghoon Pio Kim (Korea)*

B2-4

ICICIC2018-SS08-04

A Weighted Work Transference Network Model and Its Implications on Workflow-Supported Organizations

Minjae Park, Pham Dinh Lam, Hyun Ahn and Kwanghoon Pio Kim (Korea)*

B2-5

ICICIC2018-SS08-05

Ergonomic Assessment of Four Different Mattresses

Young-Hee Kim, Himchan Cheng and Hong-In Cheng (Korea)*

B2-6

ICICIC2018-SS08-06

An Ergonomic Study for Developing a Digital Musical Instrument for the Elderly

Rizky Alifa, Hyun Il Kim, Himchan Cheng, Young-Hee Kim and Hong-In Cheng (Korea)*

B2-7

ICICIC2018-SS08-07

Study on Autonomous Surface Robot Based on Marine Energy Harvesting

Youngmin Sa, Gyusung Cho and Hyun-Sik Kim (Korea)*

August 21, Tuesday

16:00 – 18:00 **Nebulous Mountain Hall, 4F**
C2: Data Analytics and Knowledge Discovery
Chair: Prof. Jae-Yoon Jung (Kyung Hee University, Korea)

C2-1
ICICIC2018-SS15-01
Object Detection of Cochlea in Micro-Computed Tomography Using Faster Region Convolutional Neural Network
Jongwun Choi, Myungjoon Han and Namkeun Kim (Korea)*

C2-2
ICICIC2018-SS15-02
Prediction Modeling for Molecular Dynamics Using Deep Neural Networks
Jae-Yoon Jung, Donghyun Park and Byeongchan Lee (Korea)*

C2-3
ICICIC2018-SS15-03
An Automated Generation of Word-Emotion Lexicon on Social Media Texts
Liza Wikarsa and Minsoo Kim (Korea)*

C2-4
ICICIC2018-SS15-04
A Compromise Conflict Resolution Approach to the Uncertain Transportation Problem Based on Fuzzy Set Theory
Muzaffar Makhmudov and Chang Seong Ko (Korea)*

C2-5
ICICIC2018-SS15-05
A Genetic Algorithm-Based Approach to the Tour Planning with Staying Time-Dependent Satisfactions
Yixuan Wang, Sari Ratna Permata and Chang Seong Ko (Korea)*

C2-6
ICICIC2018-SS15-06
Forecasting High-Dimensional Multivariate Regression of Baltic Dry Index (BDI) Using Deep Neural Networks (DNN)
Imam Mustafa Kamal, Hyerim Bae, Sunghyun Sim, Hyemee Kim, Dohee Kim, Yulim Choi and Heesung Yun (Korea)*

C2-7
ICICIC2018-SS15-07
Analysis of Intention to Repurchase Smart Devices by Innovative Customers and Non-Innovative Customers
Hong Joo Lee (Korea)

C2-8
ICICIC2018-SS15-08
Analysis of Artificial Intelligence Technology Based on the Requirements of Collaborative Robots through Patent Analysis
Hong Joo Lee, Ji Su Kim and Hyun Woo Kim (Korea)*

August 21, Tuesday

16:00 – 18:00 Nebulous Sky Hall, 4F

D2: Computer Technologies for Intelligent Systems (2)

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

D2-1

ICICIC2018-SS05-07

On Flow Rate of “Uonogawa” from Rainfall with Tank Model

Riki Tanaka, Kenji Shirai and Hirotaka Takahashi (Japan)*

D2-2

ICICIC2018-SS05-08

Research on Surface Defects Detection of Reflected Curved Surface Based on Convolutional Neural Networks

Zhong Zhang, Borui Zhang, Takuma Akiduki, Tomoaki Mashimo and Tianbiao Yu (Japan)*

D2-3

ICICIC2018-SS05-09

Consideration of Human Motion’s Individual Differences-Based Feature Space Evaluation Function for Anomaly Detection

Masaya Mori, Yuto Omae, Takuma Akiduki and Hirotaka Takahashi (Japan)*

D2-4

ICICIC2018-SS05-10

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

Ryoma Watanuki, Daichi Kato, Tadashi Horiuchi and Toshiyuki Aodai (Japan)*

D2-5

ICICIC2018-015

Evaluating Thematic-Approach Teaching of Robot Design and Practice Course through Psychomotor and Affective Domains

Kai-Chao Yao, Tsung-Chih Wu, Li-Chiou Hsu and Wei-Tzer Huang (Taiwan, China)*

D2-6

ICICIC2018-062

Prediction of Photovoltaic Power Output for Microgrids Using Back-Propagation Neural Network

Wei-Tzer Huang, Kai-Chao Yao, Hao-Chuan Luo, Hong-Ting Chen, Yung-Ruei Chang
Yih-Der Lee and Yuan-Hsiang Ho (Taiwan, China)*

August 21, Tuesday

16:00 – 18:00 Nebulous Sea Hall, 4F

E2: Web Services and Computational Intelligence

Chair: Prof. Tzong-Ru Tsai (Tamkang University, Taiwan, China)

E2-1

ICICIC2018-004

Parameter Estimation for the Three-Parameter Burr-XII Distribution under Accelerated Life Testing with Type I Censoring Using Particle Swarm Optimization Algorithm

Hua Xin, Jianping Zhu and Tzong-Ru Tsai (Taiwan, China)*

E2-2

ICICIC2018-024

A Research on the Influence of Characteristics of Online Sporting Goods Store on Customers' Purchase Intention Based on TAM – Take ChuanTT as an Example

Wenling Zou, Shuo Zhang and Jong-Ho Lee (China)*

E2-3

ICICIC2018-036

A Virtual Machine Scheduling Strategy with Semi-Sleep Mode on the Cloud Platform

Bing Qin, Shunfu Jin and Dongmei Zhao (China)*

E2-4

ICICIC2018-078

Bubble Chart Analysis for a Lecture Applying Type-2 Fuzzy Contingency Table

Hiroaki Uesu (Japan)

E2-5

ICICIC2018-083

A Study on Usage Status Survey and User Location History of Campus Wireless LAN System

Hiroshi Shiratsuchi, Kozo Horiuchi and Takanori Matsuzaki (Japan)*

E2-6

ICICIC2018-121

An Approach to Enhance a Solar Pumping System with Cloud Computing and Internet of Things for Thailand Smart Farming 4.0

Chatchai Sirisumpunwong, Winai Wongthai and Rattaporn Ngoenmeesri (Thailand)*

E2-7

ICICIC2018-128

Social Network Analysis Applying Fuzzy Graph Theory and Fuzzy Core Index Method

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

August 22, Wednesday

8:30 – 10:00 Rosy Clouds Hall, 4F

A3: Control System and Applications (1)

Chair: Prof. Yuping Zhang (China University of Petroleum-Beijing at Karamay, China)

A3-1

ICICIC2018-010

Modeling and Parameters Analysis of Longitudinal Vibration of High-Velocity Elevator Hoisting System

Hucheng Wu, Dekun Zhang and Qiong Cheng (China)*

A3-2

ICICIC2018-026

Analysis of Transverse Vibration of High-Velocity Elevator with Variable-Length Hoisting System

Hucheng Wu, Dekun Zhang and Qiong Cheng (China)*

A3-3

ICICIC2018-044

Adaptive Consensus Tracking Control for Multiple Autonomous Underwater Vehicles with Uncertain Parameters

Jian Cui, Lin Zhao, Yumei Ma and Jinpeng Yu (China)*

A3-4

ICICIC2018-053

Distribution Path Optimization Method of Gas Cylinder Based on Genetic-Tabu Hybrid Algorithm

Yuping Zhang, Ying Yang and Rui Yang (China)*

A3-5

ICICIC2018-054

Improvement of Similarity Computation Formula in Collaborative Filtering Recommendation Algorithm

Yuping Zhang and Liang Hao (China)*

A3-6

ICICIC2018-058

Uncertainty Observer-Based Sliding-Mode Controller for a Class of T-S Fuzzy Models

Jiabao Fu and Hugang Han (Japan)*

August 22, Wednesday

8:30 – 10:00 Nebulous River Hall, 4F

B3: Innovated Computation and Its Applications

Chair: Prof. Rung-Ching Chen (Chaoyang University of Technology, Taiwan, China)

B3-1

ICICIC2018-SS16-01

Predicting Business Category with Multi-Label Classification from User-Item Review and Business Data

Hendry and Rung-Ching Chen (Taiwan, China)*

B3-2

ICICIC2018-064

Detecting the People Attention for Exhibits in Exhibition Using Fuzzy Method

Rung-Ching Chen, Huiqin Jiang, Jin-Yan Chen and Hendry (Taiwan, China)*

B3-3

ICICIC2018-041

Evolutionary Game Analysis on the Choice of Vehicle Sharing Travel Modes

Yanbing Yang, Junying Sun, Junjiao Cui and Jianmin Li (China)*

B3-4

ICICIC2018-117

Weed Seeds Classification Based on Saak Transform

Ruifei Zhang and Cheng Cai (China)*

B3-5

ICICIC2018-129

Sensor Fault Diagnosis Based on Correntropy Filter and Probabilistic Neural Network

Jianhua Zhang, Zhiqiang Wu, Guanglei Cui, Penghao Fan, Jijun Cao and Mingyue Ning (China)*

B3-6

ICICIC2018-132

Improved Variational Linear Regression with Confidence Level

Jiajing Li, Tao Lv and Zijian Dong (China)*

August 22, Wednesday

8:30 – 10:00 Nebulous Mountain Hall, 4F

C3: Soft Computing

Chair: Prof. Guixiang Wang (Hangzhou Dianzi University, China)

C3-1

ICICIC2018-046

Exponential Passive Filtering for a Class of Discrete-Time Genetic Regulatory Networks with Discrete and Distributed Delays

Ning Zhao, Xingming Zhou, Yantao Wang and Xian Zhang (China)*

C3-2

ICICIC2018-066

On the Price of European Call Option Based on the Black Scholes Model with Fuzzy Number Coefficients

Guojing Zhang and Guixiang Wang (China)*

C3-3

ICICIC2018-079

Fuzzy Control for Trajectory Tracking in Shield Tunneling

Shaohui Huang, Miao Huang, Junpeng Mi, Longhua Ma, Zheming Lu and Hongye Su (China)*

C3-4

ICICIC2018-125

Interactive Dashboard of Flood Patterns Using Clustering Algorithms

Friska Natalia, Yustinus Eko, Ferry Vincenttius Ferdinand, I Made Murwantara and Chang Seong Ko (Indonesia)*

C3-5

ICICIC2018-126

Eyeglasses Frame Selection Based on Face Shape Using Convolutional Neural Network

Stephen Young, Friska Natalia, Sud Sudirman and Chang Seong Ko (Indonesia)*

August 22, Wednesday

8:30 – 10:00 Nebulous Sky Hall, 4F

D3: Image and Signal Processing

Chair: Prof. Takashi Samatsu (Tokai University, Japan)

D3-1

ICICIC2018-049

Calligraphy Fonts Generation Based on Generative Adversarial Networks

Guozhou Zhang, Wencheng Huang, Ru Chen, Jinyu Yang and Hong Peng (China)*

D3-2

ICICIC2018-072

Smartphone Application Program of Obstacle Detection for Visually Impaired People

Manabu Shimakawa, Issei Taguchi, Chiharu Okuma and Kimiyasu Kiyota (Japan)*

D3-3

ICICIC2018-074

Detection of Objects Jumping in Front of Car Using Deep Learning

Mitsutaka Nakano, Taiki Kuwazawa and Yoshifumi Oyama (Japan)*

D3-4

ICICIC2018-103

Human Identification by Gait Analysis of Moving Images Corresponding to Photographing Angle

Masaya Kimura and Shigeyoshi Nakajima (Japan)*

D3-5

ICICIC2018-124

Development of Optical Wave Microphone with Retroreflector for Remote Sensing and Sound Security System

Yuri Hayashida, Takashi Samatsu, Yumi Saigusa and Yoshito Sonoda (Japan)*

August 22, Wednesday

8:30 – 10:00 Nebulous Sea Hall, 4F

E3: Models and Algorithms

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

E3-1

ICICIC2018-SS10-01

Applying Programmable Controller Design to Curved Decorative Vacuum System

Chi-Ming Chen, Yi-Nung Chung and Chao-Hsing Hsu (Taiwan, China)*

E3-2

ICICIC2018-SS10-02

A Creative Research on Walking out of Bullying Incidents through Game Cards

Rui-Lin Lin (Taiwan, China)

E3-3

ICICIC2018-SS10-03

An Industry-Academia Cooperation Creative Research of the Sign Making Course

Jing-Chen Xie (Taiwan, China)

E3-4

ICICIC2018-032

Prediction of Regional Road Flow in Multimodal Container Transport Based on OD Matrix Estimation

Yingyi Huang, Xuhong Xu and Chun Jin (China)*

E3-5

ICICIC2018-045

Performance Enhancement of Differential Evolution by DIRECT Algorithm

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

August 22, Wednesday

10:20 – 11:50 Rosy Clouds Hall, 4F

A4: Control System and Applications (2)

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

A4-1

ICICIC2018-048

Fuzzy Control for Compressor of CO₂ Heat Pump Water Heater Based on Digital Signal Controller

Yong Zhou, Xiaogang Zhou, Jiayao Wang and Jiaxing Yang (China)*

A4-2

ICICIC2018-075

Adaptive-Robust Observer-Controller Design for Takagi-Sugeno Fuzzy System with Disturbance and Unknown Premise Variables

He Li, Wenbo Xie, Jian Zhang and Mingyang Li (China)*

A4-3

ICICIC2018-086

Observer-Based Controller Design for Networked Control Systems with Induced Delays and Data Packet Dropouts

Luo Zhang, Mou Chen and Bei Wu (China)*

A4-4

ICICIC2018-093

Trial Production of Kite Wing Attached Multicopter for Power Saving and Long Flight

Kiyoteru Hayama and Hiroki Irie (Japan)*

A4-5

ICICIC2018-116

H-Infinity Boundary Control for Stochastic Delay Reaction-Diffusion Systems with Markovian Switching

Xinxin Han and Kaining Wu (China)*

A4-6

ICICIC2018-130

Modeling and Generalized Predictive Control Strategy of a Micro Gas Turbine

Jianhua Zhang, Jijun Cao, Penghao Fan, Guanglei Cui, Zhiqiang Wu and Pansheng Wang (China)*

August 22, Wednesday

10:20 – 11:50 Nebulous River Hall, 4F

B4: Artificial Intelligence and Expert Systems

Chair: Prof. Keiichi Horio (Kyushu Institute of Technology, Japan)

B4-1

ICICIC2018-118

Sentiment Analysis of the Burmese Language Using the Distributive Representation of *N*-Gram-Based Word

Myat Lay Phyu and Kiyota Hashimoto (Thailand)*

B4-2

ICICIC2018-055

Short-Term Traffic Flow Prediction Algorithm by Support Vector Regression Based on Artificial Bee Colony Optimization

Cheng Li, Hongtao Zhang, Honglie Zhang and Yanju Liu (China)*

B4-3

ICICIC2018-070

A Novel Framework for Classification & Repairing for Irregular Model Reconstruction Using Mass Point Clouds Based on Fuzzy Inference

Yanju Liu, Miao Wang, Honglie Zhang, Cheng Li and Jiaying Liu (China)*

B4-4

ICICIC2018-087

A Spoiler Detection Method for Japanese-Written Reviews of Stories

Atsushi Ueno, Yuu Kamoda and Tomohito Takubo (Japan)*

B4-5

ICICIC2018-104

Distance Metric Learning for the Self-Organizing Map Using a Co-Training Approach

Keisuke Yoneda and Tetsuo Furukawa (Japan)*

B4-6

ICICIC2018-123

A Study on the Analysis of Soccer Games Using Distributed Representation of Actions and Players

Jiarun Zhong, Tomoharu Nakashima and Hidehisa Akiyama (Japan)*

August 22, Wednesday

10:20 – 11:50 Nebulous Mountain Hall, 4F

C4: Knowledge Discovery and Data Mining (1)

Chair: Prof. Yao Liu (Institute of Scientific and Technical Information of China, China)

C4-1

ICICIC2018-SS11-01

Research on Database and Automatic Construction of Classical Prescription Corpus

Yang Zhou, Liying Zhang, Xingliang Qi and Ruoyun Xie (China)*

C4-2

ICICIC2018-SS11-02

Research on Automatic Computational Model of Technology Life Cycle Based on Domain Ontology

Yao Liu, Qian Zhang and Yi Huang (China)*

C4-3

ICICIC2018-SS11-03

Research on Dermatology Ontology Construction for Diagnosis and Treatment

Jing Zhao, Yi Huang, Xingliang Qi and Xiaoyu Sun (China)*

C4-4

ICICIC2018-SS11-04

A Novel Individual-Memory-Guided Particle Swarm Optimization

Hongying Zhang, Na Tian and Meng Wang (China)*

C4-5

ICICIC2018-SS11-05

Research Design of Literature-Based TCM Prescription Target Prediction

Yang Zhou and Zhuo Zhang (China)*

C4-6

ICICIC2018-SS11-06

Design and Implementation of Sci-Tech Novelty Retrieval System

Yuyan Xing, Yao Liu, Zhen Xu and Yue Zhang (China)*

August 22, Wednesday

10:20 – 11:50 Nebulous Sky Hall, 4F

D4: Circuits and Systems

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

D4-1

ICICIC2018-006

Development of a Simple Direct Switched-Capacitor AC-AC Converter Using Cascade Connection

Kei Eguchi, Farzin Asadi, Hiroto Abe, Takaaki Ishibashi and Hirofumi Sasaki (Japan)*

D4-2

ICICIC2018-014

A Digitally Controlled Oscillator Using $1+1/k$ Frequency Divider Based on Multi-Phase Clock

Mitsutoshi Yahara, Kuniaki Fujimoto, Hideo Kiyota, Daishi Nishiguchi and Yujiro Harada (Japan)*

D4-3

ICICIC2018-057

Experiment of a High Voltage Gain SC DC-DC Converter Based on Cross-Connected Fibonacci-Type Converter

Ratanaubol Rubpongse, Farzin Asadi, Wanglok Do and Kei Eguchi (Japan)*

D4-4

ICICIC2018-060

High-Order Moment UKF for Markov Jump Nonlinear Systems

Ziheng Zhou, Haiying Wan, Xiaoli Luan and Fei Liu (China)*

D4-5

ICICIC2018-077

Voltage Characteristics of a Hamming Distance Search Circuit in Voltage Domain Using Clocked Neuron CMOS Inverter

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

D4-6

ICICIC2018-115

A Design and Analysis for Weld Seam Detector Based on Eddy Current and Phase Lock Loop Technique

Anucha Punapung, Noppadon Sisuk and Anucha Kaewpoonsuk (Thailand)*

August 22, Wednesday

10:20 – 11:50 Nebulous Sea Hall, 4F

E4: Sound System and Applications

Chair: Dr. Masashi Nakayama (Hiroshima City University, Japan)

E4-1

ICICIC2018-SS06-01

Improvement of Heart Rate Variability Analysis for Sound Design

Yuki Date, Shunsuke Ishimitsu and Natsuki Yamagiwa (Japan)*

E4-2

ICICIC2018-SS06-02

Experimental Study of the Pharyngeal Tonsil: A Resonance Model

Kohei Kabashima, Shunsuke Ishimitsu, Satoshi Iijima, Masashi Nakayama, Yuki Fukuda
Shohei Komatsu, Kazutaka Kasai, Kaori Ishii and Satoshi Horihata (Japan)*

E4-3

ICICIC2018-SS06-03

Objective Evaluation of Sound Quality for Audio System in Car

Arimasa Kanda, Shunsuke Ishimitsu, Koji Wakamatsu, Masanori Nakashima
and Hiroshi Yamanaka (Japan)*

E4-4

ICICIC2018-SS06-04

Effects of Gaze Angle on Vocalization

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

E4-5

ICICIC2018-SS06-05

Body-Conducted Speech Recognition Using Model Adaptation

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

E4-6

ICICIC2018-SS06-06

An Early Detection System to Find Respiratory Diseases for Pigs with Body-Conducted Sound

Yibing Cheng, Kenta Narusawa, Satoshi Iijima, Masashi Nakayama, Shunsuke Ishimitsu
Aiko Ishida and Osamu Mikami (Japan)*

August 22, Wednesday

13:40 – 15:40 Rosy Clouds Hall, 4F

A5: Intelligent Control and Applications (1)

Chair: Prof. Rongni Yang (Shandong University, China)

A5-1

ICICIC2018-029

Adaptive Fault Tolerant Control for Singular Markovian Jump Systems via Sliding Mode Control Approach

Chenglong Du, Weide You and Fanbiao Li (China)*

A5-2

ICICIC2018-034

Asynchronous Filtering for Delayed Markovian Jump Systems via Homogeneous Polynomial Approach

Weizhi Hu, Yuxin Zhu and Xiaofan Liu (China)*

A5-3

ICICIC2018-040

Dissipativity-Based Asynchronous Output Feedback Control of Delayed Semi-Markovian Jump Systems

Huiyan Zhang and Peng Shi (China)*

A5-4

ICICIC2018-SS13-02

Iterative Learning Observer-Based Fault Tolerant Control Approach for Satellite Attitude Systems with Mixed Actuator Faults

Zhifeng Gao, Peng Yang, Moshu Qian and Lixiang Zhai (China)*

A5-5

ICICIC2018-SS13-03

A Delay System Approach to Networked Control System via an Event-Triggered Scheme

Feng Hu and Xiaojie Su (China)*

A5-6

ICICIC2018-SS13-04

Adaptive Fuzzy Sliding Mode Command-Filtered Backstepping Control for Islanded PV Microgrid with Energy Storage System

Yuchen Dai, Dezhi Xu, Chengshun Yang and Wenxu Yan (China)*

A5-7

ICICIC2018-SS13-05

Event-Triggered Control of Discrete-Time Switched Fornasini-Marchesini Systems

Yaru Yu and Rongni Yang (China)*

August 22, Wednesday

13:40 – 15:40 Nebulous River Hall, 4F

B5: Management Science (1)

Chair: Prof. Haiyan Wang (Southeast University, China)

B5-1

ICICIC2018-SS03-01

Optimizing Supply Chains of High Value-Added Food Based on Evolutionary Game Theory and Vulnerability Assessment Method: Taking Cordyceps Sinensis for Example

Ran Liu and Lindu Zhao (China)*

B5-2

ICICIC2018-SS03-02

Theory of Wealth-Added Services to Commercial Banks' Key Customers Based on Bank Data Capitalization

Xi Gong and Lindu Zhao (China)*

B5-3

ICICIC2018-SS03-03

Design of Fall Risk Assessment Service Network for the Elderly

Linli He, Rong Lin and Haiyan Wang (China)*

B5-4

ICICIC2018-SS03-04

Newsvendor System Neglect Revisited with a New Normative Method

Zhiru Juan and Haiyan Wang (China)*

B5-5

ICICIC2018-SS03-05

Payment Mechanisms Incentives for Improving Prevention and Treatment

Shifu Pan and Haiyan Wang (China)*

B5-6

ICICIC2018-SS03-06

Optimal Channel Strategies for Service Providers When Opaque PP Channel Is Available

Jiamin Cao, Xiaodan Zhu and Sijie Li (China)*

B5-7

ICICIC2018-SS03-07

The Effect of Trade-in Program on Duopoly Competition with Products Quality Differentiation and Secondhand Market

Dongfeng Jia and Sijie Li (China)*

B5-8

ICICIC2018-SS03-08

Platform Selling vs. Wholesale Selling: Effect of Demand Risk and Suppliers' Competition

Weili Xue and Yulin Hu (China)*

August 22, Wednesday

13:40 – 15:40 Nebulous Mountain Hall, 4F
C5: Knowledge Discovery and Data Mining (2)
Chair: Prof. Lixin Shen (Dalian Maritime University, China)

C5-1

ICICIC2018-020

Detecting the Issues of Population Aging by Using ARIMA Model
Dian-Fu Chang, Yi Hsing Lin and Fong-Yee Nyeu (Taiwan, China)*

C5-2

ICICIC2018-021

Trajectory of the Population Dependency Index by Using ARIMA Models
Dian-Fu Chang and Ko Lin Lai (Taiwan, China)*

C5-3

ICICIC2018-038

Mining Gender Parity Patterns in STEM by Using ARIMA Model
Dian-Fu Chang and Hui Hu (Taiwan, China)*

C5-4

ICICIC2018-065

Optimization on Combined Scheduling of Truck and Trailer Routing Problem Considering Synchronized Operations
Qi Xu, Zuona Li, Lixin Shen, Zhan Bian, Lei Xing and Zhihong Jin (China)*

C5-5

ICICIC2018-090

Apache Storm Configuration Platform for Dynamic Sampling and Filtering of Data Streams
Youngkuk Kim, Siwoon Son and Yang-Sae Moon (Korea)*

C5-6

ICICIC2018-106

An Empirical Test of the TOPSIS Based Bidders Ranking Algorithm in Crowdsourcing Contest
Yan Lin, Junxiao Cui and Tianrong Ding (China)*

August 22, Wednesday

13:40 – 15:40 Nebulous Sky Hall, 4F

D5: Real-Time Systems and Identification

Chair: Prof. Hongjiu Yang (Yanshan University, China)

D5-1

ICICIC2018-001

Application of Photovoltaic-Thermal (PV-T) Power for Cooling Systems

Syafaruddin, Faharuddin, Moeh. R. Adymulya and Satriani Latief (Indonesia)*

D5-2

ICICIC2018-025

Stability for a Class of Dynamic Systems with an Internal Cause Condition

Peng Li, Yuan Yuan, Hongjiu Yang, Hui Li and Min Shi (China)*

D5-3

ICICIC2018-028

T-S Fuzzy System Identification Based on Bayesian Inference

Limin Zhang, Hongjiu Yang and Qin Mao (China)*

D5-4

ICICIC2018-030

A Verification of Intrinsic Robustness Property of Finite Memory Structure Filter

Seok Jun Kwon and Pyung Soo Kim (Korea)*

D5-5

ICICIC2018-068

Hidden Markov Model Prediction for Uncertain Systems Based on Weighted Fuzzy Clustering

Bing Yan, Chengfu Wu and Peng Shi (China)*

D5-6

ICICIC2018-094

Recursive Identification Algorithm Based on Basis Function for Time-Varying System

Xinyu Liu and Lianming Sun (Japan)*

D5-7

ICICIC2018-122

Model Structure Identification and Parameter Estimation for Unstable Process in Closed-Loop

Lianming Sun, Xinyu Liu and Akira Sano (Japan)*

August 22, Wednesday

16:00 – 18:00 Rosy Clouds Hall, 4F

A6: Intelligent Control and Applications (2)

Chair: Dr. Huabin Chen (Nanchang University, China)

A6-1

ICICIC2018-013

Formation Control of Multiple Elliptical Agents with Variable Parameters

Yutong Liu, Peng Shi and Cheng-Chew Lim (Australia)*

A6-2

ICICIC2018-023

Containment Control of Multi-Agent Systems with Uniform Quantization

Liya Li, Peng Shi and Wen Xing (China)*

A6-3

ICICIC2018-033

Finite-Time Formation Tracking Control of Multi-Agent Systems with an Unknown Bounded Accelerated Motion Leader

Ge Song and Peng Shi (China)*

A6-4

ICICIC2018-035

Asymptotic Behavior for Stochastic Three-Dimensional Delay Primitive Equations

Huabin Chen and Peng Shi (China)*

A6-5

ICICIC2018-047

Cooperative Consensus Tracking Control for Unknown Nonlinear Multi-Agent Systems with Hybrid First- and Second-Order Dynamics

Xiaojie Li, Yiguang Wang and Peng Shi (China)*

A6-6

ICICIC2018-096

Global Pinning Synchronization of Complex Networks with General Topological Graphs via Distributed Adaptive Strategies

Wen Xing, Peng Shi and Liya Li (China)*

August 22, Wednesday

16:00 – 18:00 Nebulous River Hall, 4F

B6: Management Science (2)

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

B6-1

ICICIC2018-056

Financial Risk Assessment of Listed Tourism Companies Based on Grey Relational Degree Model

Weiling Su and Jinping Zhou (China)*

B6-2

ICICIC2018-069

Picking and Delivery Cost Analysis of E-Commerce Fruit Farmers Based on Decision Tree Model

Langlang Ren, Junhu Ruan and Felix T. S. Chan (China)*

B6-3

ICICIC2018-073

A Path Selection Model for Multimodal Transportation Problem of Fresh Fruits in Online Supermarket

Yanling Zhuang, Yujiao Sun, Mengqi Yu and Xiangpei Hu (China)*

B6-4

ICICIC2018-082

A Vehicle Routing Problem of Mixed Distribution for Oil Products with Lateral Transshipment

Lijun Sun, Yaxian Zhou, Haiyang Shi and Xiangpei Hu (China)*

B6-5

ICICIC2018-092

Research on the Bi-Level Programming of Underground Logistics Project Based on Public-Private Partnership Mode

Yan Wang, Tong Li and Weiling Su (China)*

B6-6

ICICIC2018-097

Exploring Competency Indicator System for Safe Operation of Major Technical Equipment

Lili Zhang, Wenwen Yang, Dejun Teng and Zhengfeng Li (China)*

B6-7

ICICIC2018-109

Evaluation of Control Strategy for Smart Air-Conditioning System Based on Stochastic Hybrid Automata

Zhuo Wang and Tao Lu (China)*

August 22, Wednesday

16:00 – 18:00 Nebulous Mountain Hall, 4F

C6: Clustering and Data Analysis

Chair: Prof. Hong Peng (Xihua University, China)

C6-1

ICICIC2018-018

Cluster Analysis for Student Performance Data in PISA2015 among OECD Economies

Dian-Fu Chang and Chia-Chi Chen (Taiwan, China)*

C6-2

ICICIC2018-019

Estimating the Gaps between Potential Enrollment Numbers and Kindergarten Capacities by Using Time Series Models

Dian-Fu Chang, Huei-Ting Huang and Hsiao-Chi ChangTzeng (Taiwan, China)*

C6-3

ICICIC2018-039

Quality of China's Pre-School Resource Management Explained by Cluster Analysis

Dian-Fu Chang and Wenshan Zhu (Taiwan, China)*

C6-4

ICICIC2018-059

A Kernel-Based Clustering Algorithm under the Framework of Membrane Computing for Image Segmentation

Jinyu Yang, Tingxi Liu, Ru Chen, Guozhou Zhang, Hong Peng and Jun Wang (China)*

C6-5

ICICIC2018-063

Two-Stage Approach for Detecting Teacher's Supply and Demand Issues in Elementary Education

Dian-Fu Chang, Bih-Chyi Sheng and Wen-Ching Chou (Taiwan, China)*

C6-6

ICICIC2018-071

Investigation of the Financial Literacy among High School Students

Chien-Liang Liu, Dian-Fu Chang and Chih-Ming Chuang (Taiwan, China)*

C6-7

ICICIC2018-105

An Evaluation of Web Article Similarity Based on User Comments

Katsuyuki Shimoyama, Atsushi Ueno and Tomohito Takubo (Japan)*

August 22, Wednesday

16:00 – 18:00 Nebulous Sky Hall, 4F

D6: Post Session

D6-1

ICICIC2018-003

Extracting Keyword-Related Affective Words Using the Text Mining Technique

Jinho Ahn and Kyungdoh Kim (Korea)*

D6-2

ICICIC2018-022

A Construction Method of Navigational Officer's Knowledge Map

Xiaohai Wang, Xiaoxiao Yang and Xiuliang Dai (China)*

D6-3

ICICIC2018-089

Improved Greedy Strategy for Cloud Computing Resources Scheduling

Hongwei Dai, Jie Yin, Yu Yang and Cunhua Li (China)*

D6-4

ICICIC2018-113

Joint Global Software Engineering Education in Germany and Japan – A Case Study

Daniel Moritz Marutschke, Victor V. Kryssanov and Patricia Brockmann (Japan)*

D6-5

ICICIC2018-114

Compliance: A Big Data Approach with Law and Business Domain Expert Assessment

Daniel Moritz Marutschke, David Marutschke and Hans-Peter Marutschke (Japan)*