

THU 12 OCT 9:00 AM TO 10:40 AM

T1a Room 321A				
Big Data Analysis and Learning System				Session Chair: Hsiang-Cheh Huang, National Univ. of Kaohsiung (Taiwan)
Paper No.	Presenter	Corresponding Author	Paper Title	
T1a-1	P00020	Seihee Lee	Jee-Hyong Lee	Predicting Player Churn in Mobile RPG Game: A User Property State and Temporal Behavior Feature
T1a-2	P00040	Hsiang-Cheh Huang	Feng-Cheng Chang	Robust Transmission Techniques for Block Compressed Sensing
T1a-3	P00059	Morteza Saberi	Morteza Saberi	Organizational regulations performance improvement monitoring using Bayesian network based on organizational resilience engineering factors
T1a-4	P00063	Feng-Cheng Chang	Hsiang-Cheh Huang	An Improved Design of Program Representation for Genetic Programming
T1a-5	P00149	Dong-oh Kang	Dong-oh Kang	Data-driven Automatic Model Validation using Genetic Algorithm for Self-evolving Agent-based Social Simulation

T1b Room 321B				
Human Computer Interaction				Session Chair: Jinseok Woo, Tokyo Metropolitan Univ. (Japan)
Paper No.	Presenter	Corresponding Author	Paper Title	
T1b-1	P00148	Yuya Sano	Yuya Sano	Improve and verification of pseudo experimental interface using Arduino
T1b-2	P00030	Masato Konno	Masato Konno	Study on Automatic Suggestion System of Texts Considering Impression of E-mails
T1b-3	P00096	Ghita Athalina	Ghita Athalina	Balance of Automation and Manual Settings on Camera Application
T1b-4	P00162	Jinseok Woo	Jinseok Woo	A Robot Partner Interaction System based on Persona with Modular Cognitive Model
T1b-5	P00239	Sangyun Lee	Euntai Kim	Real-Time Tracking-by-Detection using Deep Learning for Mobile Vision Applications

T1c Room 322A				
Applied AI and its Applications				Session Chair: Young Im Cho, Yonsei Univ. (Korea, Republic of)
Paper No.	Presenter	Corresponding Author	Paper Title	
T1c-1	P00028	Aigerim Altayeva	Young Im Cho	Fuzzy based Controller for Comfort Microclimate in Smart Buildings
T1c-2	P00043	Yeon Seok Eom	Seok Jong Lee	Continuity of Mappings over Intuitionistic Fuzzy Rough Sets
T1c-3	P00176	Andrey Giyenko	Young Im Cho	Premises of integrating Smart Homes in Smart City platforms
T1c-4	P00192	Seok-Beom Roh	Sung-Kwun Oh	Radial Basis Function Neural Networks Classifier Based On Linear Embedding and Conditional Fuzzy C-Means Clustering
T1c-5	P00193	Ji-Hong Wang	Sung-Kwun Oh	A Study on Novel Learning Method in Fuzzy Polynomial Neural Networks

T1d Room 322B				
Machine Learning and its Applications I				Session Chair: Toshiaki Omori, Kobe Univ. (Japan)
Paper No.	Presenter	Corresponding Author	Paper Title	
T1d-1	P00035	WonJae Bong	Jee-Hyong Lee	Music Generation using Attention Mechanism
T1d-2	P00061	Jong-Woong Baek	Jong-Woong Baek	Convolutional Neural Network Structure Design for Face Recognition on Raspberry Pi
T1d-3	P00069	Hyungseok Seo	Hyungseok Seo	Memory Networks in the Transduction of Sequence to Sequence Models
T1d-4	P00160	Yusuke Tanaka	Toshiaki Omori	Frame Rate Upconversion Using Sparse Spatio-Temporal Auto Regressive Model

T1e Room 323A				
Intelligent Control and Robotics				Session Chair: Yong-Tae Kim, Hankyong National Univ. (Korea, Republic of)
Paper No.	Presenter	Corresponding Author	Paper Title	
T1e-1	P00055	Masaki Shiraishi	Geunho Lee	Step-Climbing Wheel Using Axle Translation: Design and Implementation
T1e-2	P00066	Geunho Lee	Geunho Lee	Neighbor Consensus Based Decentralized Deployment for Robot Swarms
T1e-3	P00196	Nguyen Van Vui	Yong-Tae Kim	Motion Planning Algorithm for the Transportation Robot Using QR Code Alignment
T1e-4	P00198	Sang D Lee	Seul Jung	Improvement of Angle Return of a Control Moment Gyroscope Actuator by Identification and Control of RLS Algorithm

T1f Room 323B				
Advanced Intelligent Technologies				Session Chair: Feng-Cheng Chang, Tamkang Univ. (Taiwan)
Paper No.	Presenter	Corresponding Author	Paper Title	
T1f-1	P00039	Hsiang-Cheh Huang	Feng-Cheng Chang	Copyright Protection for Progressive Image Transmission with QR Code and Secret Sharing Applications
T1f-2	P00064	Hsiang-Cheh Huang	Yueh-Hong Chen	An Image Watermarking scheme for Progressive Transmission
T1f-3	P00167	Ryosuke Hayasaka	Yueh-Hong Chen	Specificity of brain activity by time measurement condition for use in BCI
T1f-4	P00168	Tomoya Inoue	Tomoya Inoue	Development and evaluation of analysis tool for microscopic images of immune cells

THU 12 OCT 10:50 AM TO 12:30 PM

T2a	Room 321A			Session Chair: <i>Koichi Yamada</i>, Nagaoka Univ. of Technology (Japan)
	Web/SNS Information Analysis and its Applications			
	Paper No.	Presenter	Corresponding Author	Paper Title

T2a-1	P00018	Nicha Nishikawa	Yamada Koichi	Polarization Analysis of Twitter Users
T2a-2	P00031	Tessai Hayama	Tessai Hayama	Evaluating TV-program Highlight Scene Detection Based on Twitter Data to Soccer Game TV programs
T2a-3	P00033	Suppassara Kijsupapaisan	Suppassara Kijsupapaisan	Clustering Twitter Users Based on Interests Derived from Their Retweets
T2a-4	P00034	Elisa Claire Alemán Carreón	Elisa Claire Alemán Carreón	Analysis of Chinese Tourists in Japan by Text Mining of a Hotel Portal Site
T2a-5	P00045	Piumi Ishanka	Yukawa Takashi	A Context-aware Place Recommendation System based on Emotion and User Behavior as Contextual Parameters

T2b	Room 321B			Session Chair: <i>Tomohiro Yoshikawa</i>, Nagoya Univ. (Japan)
	Human Symbiotic Systems			
	Paper No.	Presenter	Corresponding Author	Paper Title

T2b-1	P00050	Yuhei Tanizaki	Yuhei Tanizaki	Examination of Expressing Emotion by Body Motion for Educational-Support Robot
T2b-2	P00056	Yaonan Zhu	Yaonan Zhu	Development of an Emotion Estimation System for Educational-Support Robot
T2b-3	P00127	Okajima Yoshikazu	Masuta Hiroyuki	Explanation of Approaching Object Based on a Senses-Visual using Spherical Image
T2b-4	P00137	Hiroyuki Masuta	Motohiro Yatsuo	Presentation Robot System for Interacting with Participant
T2b-5	P00163	Jin Hee Yoon	Seung Hoe Choi	A study of the life satisfaction using fuzzy theory

T2c	Room 322A			Session Chair: <i>Young-Seob Jeong</i>, SoonChunHyang Univ. (Korea, Republic of)
	Computational Intelligence			
	Paper No.	Presenter	Corresponding Author	Paper Title

T2c-1	P00046	Takafumi Goshima	Katsuhiko Honda	Phase Transition in pLSA-induced Fuzzy Co-clustering Based on Tuning of Intrinsic Fuzziness
T2c-2	P00053	Chi-Chung Chen	Chi-Chung Chen	An Enhanced Particle Swarm Optimization for Improving the Accuracy of Fuzzy System Design
T2c-3	P00106	Young-Seob Jeong	Young-Seob Jeong	Entity Sentiment Analysis Using Topic Model
T2c-4	P00199	Regin Cabacas	In-Ho Ra	Securing Digital Files for Distribution using Least Significant Bit Substitution and Speeded-Up Robust Features Algorithms
T2c-5	P00212	Masafumi Hagiwara	Masafumi Hagiwara	Continuous-Value Associative Memory Using Restricted Boltzmann Machine

T2d	Room 322B			Session Chair: <i>Seiki Ubukata</i>, Osaka Prefecture Univ. (Japan)
	Machine Learning and its Applications II			
	Paper No.	Presenter	Corresponding Author	Paper Title

T2d-1	P00051	Changhee Choi	Changhee Choi	Supervised Email Authorship Classification Using Bootstrap Aggregating
T2d-2	P00089	Morteza Saberi	Morteza Saberi	A Robust Solution to Resource-Constraint Project Scheduling Problem
T2d-3	P00156	Keisuke Umado	Seiki Ubukata	Boundary Detection with Imbalanced Data by the Rough Set k-Means Clustering
T2d-4	P00158	Hiroki Kato	Seiki Ubukata	Dependence on Initial Values of the Rough Membership k-Means Clustering
T2d-5	P00235	Erdenebayar Urtnasan	Kyoung-Joung Lee	Intelligent System for Detection of Sleep Apnea Syndrome Based on Deep Learning Algorithms

T2e	Room 323A			Session Chair: <i>Young-Jae Ryoo</i>, Mokpo National Univ. (Korea, Republic of)
	Advanced Intelligent System for Robotics			
	Paper No.	Presenter	Corresponding Author	Paper Title

T2e-1	P00092	Pin-Jui Hwang	Chen-Chien Hsu	Navigation System for Mobile Robots Using Distributed Computing
T2e-2	P00142	Jihye Oh	Jaeyoung Choi	Towards Adaptation of Robot Service Execution Model for Humanoid Robot Services
T2e-3	P00185	Kinam Lee	Young-Jae Ryoo	Intelligent Control System of Warehouse Robotic System for Fulfilment Centre
T2e-4	P00186	Tae-Gon Seo	Young-Jae Ryoo	Design of Humanoid Robot for Walking Performance Improvement
T2e-5	P00188	Bo Hee Lee	Bo Hee Lee	Intelligent Control of a Cat Robot to Treat Autistic Children
T2e-6	P00215	Seung Young Yang	Young-Jae Ryoo	Kinematic and dynamic model of passive caster wheel considering frictions

T2f	Room 323B			Session Chair: <i>Gyei Kark Park</i>, Mokpo National Maritime Univ. (Korea, Republic of)
	Intelligent e-Navigation			
	Paper No.	Presenter	Corresponding Author	Paper Title

T2f-1	P00197	Gia Huy Dinh	Gia Huy Dinh	A study on the Construction of New Ship Domain and Consecutive Waypoints Generation method for Automatic Collision Avoidance System of Ship
T2f-2	P00204	Hu Yancai	Hu Yancai	Intelligent Ship Heading Controller Design using Fuzzy Theory for e-Navigation
T2f-3	P00205	Thi Quynh Mai Pham	Thi Quynh Mai Pham	Efficiency Analysis on Asian Major Ports Using BCG and DEA for e-Navigation
T2f-4	P00213	Sang Jae Lee	Hyeon Gon Son	A Study on the Maritime Sensor Integration and Data processing method for Safety Navigation Analysis of Special Purpose Vessels

FRI 13 OCT 9:00 AM TO 10:40 AM

F1a Room 321A				
Data Mining and its Applications			Session Chair: <i>Sungshin Kim</i> , Pusan National Univ. (Korea, Republic of)	
Paper No.	Presenter	Corresponding Author	Paper Title	
F1a-1	P00054	SeungYong Yoon	SeungYong Yoon	Parallel Mining of Non-Redundant Recurrent Rules from a Sequence Database
F1a-2	P00075	Hansoo Lee	Sungshin Kim	Gaussian-based SMOTE for solving the class imbalance problem
F1a-3	P00151	Pitawelalage Dasun Dileepa Pitawela	Gamage Upeksha Ganeqoda	Influence of Swarm Intelligence in Data Clustering Mechanis
F1a-4	P00177	Ivan Dmitrievich Danyakin	Ivan Dmitrievich Danyakin	Features of combined method of automated temporal information acquisition for development of knowledge bases for dynamic intelligent systems

F1b Room 321B				
Affective Engineering and its Interactive Approach			Session Chair: <i>Muneyuki Unehara</i> , Nagaoka Univ. of Technology (Japan)	
Paper No.	Presenter	Corresponding Author	Paper Title	
F1b-1	P00042	Ryuto Suzuki	Shigeru Kato	Affective Sound Modulation of Musical Instruments by using Neural Networks
F1b-2	P00109	Hiroyuki Inoue	Hiroyuki Inoue	Impression Space Analysis of Local Mascot Characters for Regional Promotion
F1b-3	P00114	Muneyuki Unehara	Muneyuki Unehara	Design Support System with Consensus Building of Multiple Participants by Interactive Evolutionary Computation
F1b-4	P00120	Mariko Tsuda	Mariko Tsuda	A Tangible Programming Tool Incorporating the Concept of Functions as a Learning Element of Programming
F1b-5	P00136	Rina Kondo	Shigeru Kato	Food Texture Measurement Equipment Considering Air Conduction Sound with Neural Network
F1b-6	P00171	Makoto Fukumoto	Makoto Fukumoto	Influence of Pronunciation Time of Bass Guitar on Perceived Groove

F1c Room 322A				
Soft Intelligent and Computing			Session Chair: <i>Masataka Tokumaru</i> , Kansai Univ. (Japan)	
Paper No.	Presenter	Corresponding Author	Paper Title	
F1c-1	P00029	Tian-Bo Deng	Tian-Bo Deng	Phase System Design Using Linearized Constraint
F1c-2	P00071	Masaya Sakakibara	Masaya Sakakibara	Designation of Candidate Solutions in Differential Evolution Based on Bandit Algorithm
F1c-3	P00081	Yotaro Fuse	Masataka Tokumaru	A Model for Robot of Decision Making for Selecting Cooperative Behaviors in a Group
F1c-4	P00083	Anna Tanaka	Masataka Tokumaru	Enhancing the appropriateness of the communicative responses of robots-a novel response-suppression model based on interaction with human interlocutors-
F1c-5	P00183	Linyun Huang	Youngchul Bae	The relationship between chaotic dynamic and parameters based on Love model

F1d Room 322B				
Machine Learning and its Applications III			Session Chair: <i>Jee-Hyong Lee</i> , Sungkyunkwan Univ. (Korea, Republic of)	
Paper No.	Presenter	Corresponding Author	Paper Title	
F1d-1	P00022	Hyun Soo Lee	Jee-Hyong Lee	Generating Natural Text with Adversarial Actor-Critic Learning
F1d-2	P00058	Thanh Minh Vo	Kong Gon Seong	Head Pose Estimation via Manifold Learning on Global Features Extraction
F1d-3	P00076	Suryo Adhi Wibowo	Sungshin Kim	Thermal infrared object tracking using convolutional shallow features and kernelized correlation filter
F1d-4	P00095	Matsuda Nobuo	Matsuda Nobuo	Effect of image resolution on fundus image analysis using filter bank
F1d-5	P00108	Hikaru Sakamoto	Katsuhiro Honda	Effect of Tuning Fuzziness Degree in k-member Co-clustering for k-anonymized Data Analysis

F1e Room 323A				
IoT Applications			Session Chair: <i>Jung-Sook Kim</i> , Kimpo Univ. (Korea, Republic of)	
Paper No.	Presenter	Corresponding Author	Paper Title	
F1e-1	P00152	Aria Seo	Yeichang Kim	A Study on Context Information Sharing System Design for Multi-user based on Beacon: Focused on the Revitalization of Traditional Market
F1e-2	P00159	Junho Jeong	Yeichang Kim	A Study on Private Support System Model Design for Guarantee the Privacy of Sensors and Aid Recipients
F1e-3	P00169	Junho Jeong	Yunsik Son	A Study of User Hazard Event Monitoring in IoT Intelligent Convergence Security Environment
F1e-4	P00172	Uduakobong George Offong	Yunsik Son	A Binary Code Data Type Inference Method Using Long Short-Term Memory Networks
F1e-5	P00206	Jung-Sook Kim	Jung-Sook Kim	Design of Industrial Safety System using Small Datin Smart Factory

Room 323B				
F1f Korea Institute of Industrial Technology (KITECH) Project			Session Chair: <i>Daeyoung Im</i> , Korea Inst. of Industrial Technology (Korea, Republic of)	
Paper No.	Presenter	Corresponding Author	Paper Title	
F1f-1	P00191	Jung-Hyung Park	Sung-Ho Lee	Torque Characteristics considering Volume of Magnetic Coupling for Underwater Propulsion
F1f-2	P00229	Kookjin Heo	Jinsub Lim	Improved Electrochemical Properties of Li _{6.75} La ₃ Zr ₂ Al _{0.25} O ₁₂ coated Ni-rich cathode material
F1f-3	P00233	Daeyeong Im	Daeyeong Im	Development of Hybrid Type Magnetic Position Sensor Using RFID and Magnetic Field Sensor
F1f-4	P00234	Sangho Kim	Sangho Kim	Development of Electric Vehicle for Greenhouse

FRI 13 OCT 1:00 PM TO 2:40 PM

Room 321A

F2a Big Data Analysis for Intellectual Property-R&D (IP-R&D) (IP-R&D)

Session Chair: *Sunghae Jun*, Cheongju Univ. (Korea, Republic of)

Paper No.	Presenter	Corresponding Author	Paper Title
F2a-1	P00101 Minjae Kim	Sangsung Park	Exploring Factors of Standard Patents Using Principal Component Analysis
F2a-2	P00102 Ah-ram Park	Sangsung Park	Wearable Technology Trends Research Using the Paper and Patent Data
F2a-3	P00103 Ji-Ho Kang	Sangsung Park	Analysis on Patent Trends of Reliability Management Technologies Using Virtual Reality
F2a-4	P00119 Sunghae Jun	Sangsung Park	Bayesian Artificial Intelligence for Technological Uncertainty
F2a-5	P00121 Youngho Kim	Sunghae Jun	Classification of Patent Documents Using ICA and Naïve Bayes Classifier

Room 321B

F2b Behavioral and Bio Signal Analysis toward the Intelligent ICT

Session Chair: *Tatsuo Motoyoshi*, Toyama Prefectural Univ. (Japan)

Paper No.	Presenter	Corresponding Author	Paper Title
F2b-1	P00099 Yudai Gamano	Mr. Yudai Gamano	Decoding contents of working memory from EEG data during Sternberg task
F2b-2	P00115 Yuta Hashimoto	Mr. Yuta Hashimoto	Development of Audio Tactile Graphics System Using iPhone
F2b-3	P00116 Ayane Senda	Ayane Senda	Selection Method of Feature Extraction Region for Iris Recognition Using Real AdaBoost
F2b-4	P00117 Seisuke Nakamura	Seisuke Nakamura	Behavior Recognition of Student during a Lecture by Image Processing
F2b-5	P00189 Md-Belayat Hossain	Md-Belayat Hossain	Computer-Aided Knee Surgery: Automated Anatomical Axis Definition of Clinical Interest

PM, Room 322A

F2c Robust Statistics and Data Science

Session Chair: *Valentin Todorov*, United Nations Industrial Development Organization (UNIDO) (Austria)

Paper No.	Presenter	Corresponding Author	Paper Title
F2c-1	P00060 Valentin Todorov	Valentin Todorov	Visual Tools for Three-way Analysis
F2c-2	P00079 Hiroki Ichida	Masahiro Inuiguchi	Data Anonymization with Imprecise Rules
F2c-3	P00104 Junseok Lee	Sangsung Park	A Study on Development of Technology Transfer Prediction Model using Fuzzy Rule-based system
F2c-4	P00118 Yasuo Kudo	Yasuo Kudo	A Note on a Heuristic Attribute Reduction Method with Redundancy Checking
F2c-5	P00135 Agustin Mayo-Iscar	Agustin Mayo-Iscar	Robust fuzzy cluster weighted modeling

Room 322B

F2d Machine Learning and its Applications IV

Session Chair: *Kwee-Bo Sim*, Chung-Ang Univ. (Korea, Republic of)

Paper No.	Presenter	Corresponding Author	Paper Title
F2d-1	P00021 Denisov Sergey	Jee-Hyong Lee	Recurrent Adversarial Text to Video Generation
F2d-2	P00090 Taeho Kim	Wonjun Hwang	Unsupervised Convolutional Neural Network with Virtual Class
F2d-3	P00107 Hang Gao	Hang Gao	Multi-objective GAssist with NSGA-II
F2d-4	P00113 Joonhyuck Lee	Sangsung Park	Technical Trend Analysis of Deep Neural Networks based on Text Mining
F2d-5	P00124 Heereen Shim	Kwee-Bo Sim	Transfer Learning for Speech Emotion Recognition using Deep Convolutional Networks

Room 323A

F2e Signal Processing and Communications for Robots

Session Chair: *Suk-seung Hwang*, Chosun Univ. (Korea, Republic of)

Paper No.	Presenter	Corresponding Author	Paper Title
F2e-1	P00067 Bong Keun Kim	Bong Keun Kim	Artificial Fog for Performance Evaluation of Robot Safety Sensors
F2e-2	P00129 Bong Seok Park	Bong Seok Park	Connectivity-preserving approach for distributed adaptive synchronized tracking of networked uncertain underactuated surface vessels
F2e-3	P00146 Ji-youn Mun	Suk-seung Hwang	Adaptive Beamformer with AOA Estimator
F2e-4	P00153 Byeong-Ju Park	Kwang-Kyo Oh	Jerk-limited Trajectory Generation for Point to Point Motion of Humanoid and Industrial Robots
F2e-5	P00164 Nak Yong Ko	Nak Yong Ko	Improving SLAM Performance Using Inertial Measurements

Room 323B

F2f Intelligent Maritime Information Systems

Session Chair: *Jung Sik Seong*, Mokpo National Maritime Univ. (Korea, Republic of)

Paper No.	Presenter	Corresponding Author	Paper Title
F2f-1	P00145 Kwang Il Kim	Keon Myung Lee	Decision Support Tool for Vessel Traffic Service Operator
F2f-2	P00070 Dongwoo Kang	Dongwoo Kang	A Review of S-100 Portrayal Process
F2f-3	P00110 Doyeon Kim	Jung Sik Jeong	The Design of an Advanced Management System to Identify Maritime Accidents with IoT Sensors
F2f-4	P00125 Gyugwon JEONG	Taeho HONG	A Study on the Safe Distance for Small Craft
F2f-5	P00195 Youngki Kim	Youngki Kim	A Simulation Result of Time Difference Estimation between GNSSs for Generation of Differential Correction

FRI 13 OCT 2:50 PM TO 4:30 PM

F3a Room 321A				
Advanced Marketing Analysis and its Applications I				Session Chair: <i>Kazuhiro Takeyasu</i>, Tokoha Univ. (Japan)
Paper No.	Presenter	Corresponding Author	Paper Title	
F3a-1	P00009	Yuki Higuchi	Yuki Higuchi	Multivariate Analysis for the Questionnaire Investigation on Rare Sugars in Kagawa Prefecture
F3a-2	P00010	Tomohiro Watanabe	Kazuhiro Takeyasu	Forecasting the Daily Transaction Data Utilizing a Day of the Week Index in the Case of Web Site
F3a-3	P00012	Akane Okubo	Akane Okubo	An Analysis of the Questionnaire Investigation on Tourists' Behavior
F3a-4	P00014	Kazuhiro Takeyasu	Kazuhiro Takeyasu	BRAND SELECTION AND ITS MATRIX STRUCTURE - Expansion to the Higher Order Lag -

F3b Room 321B				
Neuroscience & Bioinformatics I				Session Chair: <i>Takahiro Yamanoi</i>, Hokkai-Gakuen Univ. (Japan)
Paper No.	Presenter	Corresponding Author	Paper Title	
F3b-1	P00037	Sakura Nishijima	Toshimasa Yamazaki	Brain Functional Connectivity Network-based Approach for Recognition of Alzheimer's Disease in EEG
F3b-2	P00049	Keisuke Ando	Haruko Nishida	Prediction of Finger Flexion Speed using EEG Power Spectral Entropy
F3b-3	P00065	Arisa Kazahaya	Toshimasa Yamazaki	Subtype classification of colorectal cancer by using miRNA expression data
F3b-4	P00077	Takahiro Yamanoi	Takahiro Yamanoi	Comparison of Spatiotemporal Brain Activities on Recalling Tetrapod Animals and Fruit Names
F3b-5	P00194	Moon Ki Park	Seul Jung	Design and Development of a Life Belt of Locating (LiBeLo) Elderly People with Dementia

F3c Room 322A				
Advanced Intelligent Systems and Applications				Session Chair: <i>Keon Myung Lee</i>, Chungbuk National Univ. (Korea, Republic of)
Paper No.	Presenter	Corresponding Author	Paper Title	
F3c-1	P00132	Naoki Tetsumura	Naoki Tetsumura	Consideration of Evaluation Method of Collaborative Learning Using Tangible Programming Tool.
F3c-2	P00165	Ho Namgung	Jung Sik Jeong	Design of Message Standard Codes for Safe Navigation of Unmanned Surface Vehicle
F3c-3	P00200	Dae Seung Park	YangHee Jang	Building a Learning Organization in the nuclear industry and its results
F3c-4	P00202	Kwang Il Kim	Keon Myung Lee	Mining of Missing Automatic Identification System Data
F3c-5	P00203	Kwang Il Kim	Keon Myung Lee	Clustering of Traffic Route using Ship's Course Variance
F3c-6	P00231	Choong Jung Choi	Kwang Il Kim	Application of text mining to marine accident investigation reports

F3d Room 322B				
Vision and Sensors				Session Chair: <i>JinWu Jeong</i>, Dongguk Univ. (Korea, Republic of)
Paper No.	Presenter	Corresponding Author	Paper Title	
F3d-1	P00041	Izumi Suzuki	Izumi Suzuki	Frequent Inner-Class Approach: A Semi-supervised Learning Technique for One-shot Learning
F3d-2	P00097	Orachat Chitsobhuk	Orachat Chitsobhuk	Tracklet Estimation using Node Prediction Technique for Effective Human Tracking System
F3d-3	P00098	Orachat Chitsobhuk	Orachat Chitsobhuk	GasLine: GAS STATION TRAFFIC MONITORING AND NAVIGATION SYSTEM
F3d-4	P00170	Byoung Jin Kim	Byoung Jin Kim	Hybrid Sensors-based Wind Turbine Blade Monitoring system
F3d-5	P00175	Kim InHwan	Jung JinWu	Estimation of Sand Volume in Excavator Bucket using Single Camera

FRI 13 OCT 4:30 PM TO 6:10 PM

Room 321A				
F4a Advanced Marketing Analysis and its Applications II				Session Chair: <i>Kazuhiro Takeyasu</i> , Tokoha Univ. (Japan)
Paper No.	Presenter	Corresponding Author	Paper Title	
F4a-1	P00011 Kourmei Suzuki	Kazuhiro Takeyasu	Utilization of Genetic Algorithm in Allocating Goods to Shop Shelves with an Application to Cup Noodles	
F4a-2	P00015 Daisuke Takeyasu	Kazuhiro Takeyasu	Non-Parametric Test Analysis for the Questionnaire Investigation on the High School Teachers' Work Load	
F4a-3	P00016 Asami Shitara	Kazuhiro Takeyasu	Analysis of the Preference Shift of Customer Brand Selection and Its Matrix Structure	
F4a-4	P00111 Aslanbek Murzakhmetov	Anatolii Michailovich Fedotov	Model of Innovation Diffusion in the Social Systems under the Influence of the Media and Interpersonal Communication	

Room 321B				
F4b Neuroscience & Bioinformatics II				Session Chair: <i>Toshimasa Yamazaki</i> , Kyushu Inst. of Technology (Japan)
Paper No.	Presenter	Corresponding Author	Paper Title	
F4b-1	P00036 Yoritaka Akimoto	Yoritaka Akimoto	Neural response to $l-r$ contrast in 9.5-month-old Japanese infants	
F4b-2	P00048 Yuma Hosokawa	Yuma Hosokawa	Identification of distinct subtype in colorectal cancer for Clinical Decision Making	
F4b-3	P00074 Asako Watanabe	Toshimasa Yamazaki	A method to construct and quantify the brain functional connectivity networks based on synchronization likelihood of electroencephalograms during different facial expressions	
F4b-4	P00150 Dineth Keshava Jayathilaka	Gamage Upeksha Jayarathna	Tools and Techniques Used To Predict Disease Genes Using SNP	

Room 322A				
F4c Robotic and Embedded Systems				Session Chair: <i>Shun-Feng Su</i> , National Taiwan Univ. of Science and Technology (Taiwan)
Paper No.	Presenter	Corresponding Author	Paper Title	
F4c-1	P00062 Quoc-Viet Tran	Shun-Feng Su	Real-time Object Recognition and Camera Pose Estimation	
F4c-2	P00078 Pei-Jun Lee	Pei-Jun Lee	Region based edge enhancement super-resolution reconstruction algorithm for depth map in 3D image	
F4c-3	P00088 Zi-Xuan Chen	Mei-Yung Chen	Application of heartbeat sensor to assist facial image pain level estimation	
F4c-4	P00126 Hsiao-Yen Ma	Chia-Wen Chang	Finite-time sliding-mode controller design for a quadrotor helicopter	
F4c-5	P00208 Marlon Capuno	Hwachang Song	MPC-Based Ramp Rate Control Strategy of Wind Farm Outputs with Battery Energy Storage Systems	

Room 322B				
F4d IoT enabled Embedded Systems and Robotic Systems				Session Chair: <i>Sudantha BH</i> , Univ. of Moratuwa (Sri Lanka)
Paper No.	Presenter	Corresponding Author	Paper Title	
F4d-1	P00141 Mohamed Fazil Mohamed Firdhous	Mohamed Fazil Mohamed Firdhous	(Cloud, IoT)-Powered Weather Station for Microclimate Monitoring	
F4d-2	P00144 Ishara Sandun Kudamuhandiramlage	Sagara Sumathipala	Dynamic Ontology for Medical Domain Using Web Data	
F4d-3	P00161 Harith Kolitha Warnakulasooriva	Bopagoda Hettiarachchige Sudantha	A Novel Approach of Color Detection Technique for the Enhancement of Robotic Navigation	
F4d-4	P00173 Chanuka Sandaru Elvitigala	Bopagoda Hettiarachchige Sudantha	Machine Learning Capable, IoT Air Pollution Monitoring System with Upgradable Sensor Array	
F4d-5	P00178 Nisal Sudila	Nisal Sudila	IoT Proactive Disaster Management System for Mines	
F4d-6	P00179 Yasas Pansilu Jayasuriya	Bopagoda Hettiarachchige Sudantha	IoT based Cinnamon Quality Control System through Image Processing	
F4d-7	P00187 Mohamed Fazil Mohamed Firdhous	Mohamed Fazil Mohamed Firdhous	IoT Powered Smart Dry Zone Agriculture: An Experimental Implementation	