

# Advance Program for ICAIC2020

## Oral Sessions

Seq. No.	Paper No.	Title	Authors with affiliation and country
<b>1A: Information and Communications Technology 1 (09:00 AM - 10:40 AM, Feb. 19, 2020)</b>			<b>Session Chair: Prof. Mai Ohta (Fukuoka University, Japan)</b>
1	1570619111	Prediction of Network Throughput using ARIMA	Dongwon Lee, Dongwoo Lee, Minji Choi and Joohyun Lee (Hanyang University, Korea (South))
2	1570619375	Resource Optimization in Satellite-Based Internet of Things	Feng Li and Kwok-Yan Lam (Nanyang Technological University, Singapore)
3	1570618771	Surrounding Vehicle Distance Estimation using Impulse Radio Ultra-Wideband	Jihun Kim and Dong Seog Han (Kyungpook National University, Korea (South))
4	1570609446	Optimal Resources Allocation of Bidirectional Relay Communication	Caixia Cai, Runhe Qiu and Xueqin Jiang (Donghua University, China)
<b>1B: AI for Image Processing and Multimedia 1 (09:00 AM - 10:40 AM, Feb. 19, 2020)</b>			<b>Session Chair: Prof. Benaoumeur Senouci (ECE-Paris, France)</b>
1	1570612167	Analysis of the Effect of Automotive Ethernet Camera Image Quality on Object Detection Models	Hsiang Huang (National Taipei University, Taiwan); Po-Yi Li (National Taipei University's, Taiwan); Kuan-Chung Chen and Yung-Yuan Chen (National Taipei University, Taiwan)
2	1570615529	Food Image Recognition Based on Densely Connected Convolutional Neural Networks	Al-Selwi Metwalli (Zhejiang Sci-Tech University, China); Wei Shen (Zhejiang Sci-Tech University & University of Memphis, China); Chase Q. Wu (New Jersey Institute of Technology & Oak Ridge National Laboratory, USA)
3	1570612338	Multivariate Time Series Imaging for Short-Term Precipitation Forecasting Using Convolutional Neural Networks	Elmer C Peramo (Advanced Science and Technology Institute, Philippines); Sun Arthur A. Ojeda (University of the Philippines Manila, Philippines); Geoffrey Solano (University of the Philippines, Manila & University of the Philippines, Diliman, Philippines)
4	1570615900	Generative Adversarial Networks Based on Edge Computing With Blockchain Architecture for Security System	Kevin Putra Dirgantoro, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
5	1570617856	Optimization Algorithm for Driver Monitoring System using Deep Learning Approach	Min Woo Yoo and Dong Seog Han (Kyungpook National University, Korea (South))
<b>2A: Information and Communications Technology 2 (14:00 PM - 15:40 PM, Feb. 19, 2020)</b>			<b>Session Chair: Prof. Dong Seog Han (Kyungpook National University, Korea (South))</b>
1	1570618851	Communication Handover for Multi-Dimensional UAVs in ROI using MIMO-Ultrawideband	Williams-Paul Nwadiugwu, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
2	1570615584	Radio Environment Map Construction with Joint Space-Frequency Interpolation	Koya Sato (Tokyo University of Science, Japan); Kei Inage (Tokyo Metropolitan College of Industrial Technology, Japan); Takeo Fujii (The University of Electro-Communications, Japan)
3	1570613739	Controlling the Communication Overhead of Source Location Privacy Protocols in Multi-hop Communication Wireless Networks	Lilian Mutalemwa, Moonsoo Kang and Seokjoo Shin (Chosun University, Korea (South))
4	1570617033	Transmission Timing Adjustment Algorithm in IoT System Equipped with Low-cost Oscillator with Low Frequency Stability	Masaki Amano, Mai Ohta and Makoto Taromaru (Fukuoka University, Japan)
5	1570616083	Measurement-based Spectrum Database for Wireless Distributed Networks Using Shadowing Classifier	Keita Katagiri (The University of Electro-Communication & Advanced Wireless and Communication Research Center (AWCC), Japan); Takeo Fujii (The University of Electro-Communications, Japan)
<b>2B: AI for Image Processing and Multimedia 2 (14:00 PM - 15:40 PM, Feb. 19, 2020)</b>			<b>Session Chair: Min Young Kim (Kyungpook National University, Korea (South))</b>
1	1570619550	Tooth Detection and Segmentation with Mask R-CNN	Guohua Zhu, Zewen Piao and Suk Chan Kim (Pusan National University, Korea (South))
2	1570599706	Personal Identification Methods Using Footsteps of One Step	Yuki Hori and Takahiro Ando (Kyushu University, Japan)
3	1570612185	Development of an Inaudible Sound Communications System Based on a Machine Learning Approach	Naofumi Aoki (Hokkaido University, Japan)
4	1570613251	Deep Learning Approach to Face Pose Estimation for High-Speed Camera Network System	Seohyun Lee and Hyuno Kim (The University of Tokyo, Japan); Masatoshi Ishikawa (University of Tokyo, Japan)
5	1570600788	Using CNN to identify map spots based on high-resolution data	Xin Zhang (Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China); lu Hua Luo (Lanzhou Jiaotong University, China)
<b>3A: Information and Communications Technology 3 (16:00 PM - 17:40 PM, Feb. 19, 2020)</b>			<b>Session Chair: Prof. Sungtek Kahng (University of Incheon, Korea (South))</b>
1	1570616162	High-Speed Optimizaiton Method for Resoruce Allocation in Wireless Communication Systems by Coherent Ising Machine	Hirotake Ito and Yuchang Jiang (Tokyo University of Science, Japan); Hiroyuki Yasuda (The University of Tokyo, Japan); Kazuyuki Aihara (University of Tokyo, Japan); Mikio Hasegawa (Tokyo University of Science, Japan)
2	1570586508	Cognitive Intelligence with Adaptive MAC Vehicular Ad-Hoc Network Optimization	Joanne Mun Yee Lim (School of Engineering, Monash University Malaysia); Yoong Choon Chang (Universiti Tunku Abdul Rahman, Malaysia); Dhaval Karshanbhai Patel (School of Engineering and Applied Science-Ahmedabad University, India)

3	1570620989	Rolling MIMO-OFDM for Optical Camera Communication System	Huy Nguyen, Tung Lam Pham, Hoan Nguyen, Van Hoa Nguyen and Yeong Min Jang (Kookmin University, Korea (South))
4	1570617218	A Nature-Inspired Machine Optimization Technique for Metasurfaces to Improve the Isolation between 5G MIMO Antennas	Changhyeong Lee, Abdul Rehman, Heejun Park and Gwang-Gyun Namgung (Incheon National University, Korea (South)); Yejune Seo (Inchoen National University, Korea (South)); Sungtek Kahng (University of Incheon, Korea (South))
5	1570620845	Automatic wireless power transfer management based on receiver feedback	Md. Faisal Ahmed and Md. Morshed Alam (Kookmin University, Korea (South)); Mostafa Zaman Chowdhury (Khulna University of Engineering and Technology, Bangladesh); Yeong Min Jang (Kookmin University, Korea (South))
6	1570612272	Adaptation Plan Policy in Traffic Routing for Priority Vehicle	Krishna Priawan Hardinda (University of Electro-Communications, Japan); Yuichi Sei (The University of Electro-Communications, Japan); Yasuyuki Tahara (UEC, Japan); Akihiko Ohsuga (The University of Electro-Communications, Japan)
<b>3B: AI for Image Processing and Multimedia 3 (16:00 PM - 17:40 PM, Feb. 19, 2020)</b>			<b>Session Chair: Dr. Mitchel Perez (Vrije Universiteit Brussel, Belgium)</b>
1	1570619571	Compact Deeplearning Convolutional Neural Network based Hand Gesture Classifier Application for Smart Mobile Edge Computing	Ashiquzzaman Akm, Seungmin Oh and Dongsu Lee (Chonnam National University, Korea (South)); Ji Lee (Masters Student, SMMC Lab, Chonnam National University, Korea (South)); Jinsul Kim (Chonnam National University, Korea (South))
2	1570608300	Three-Dimensional Photon Counting Integral Imaging Reconstruction using Merging Reconstruction Method	Jaehoon Lee (Kyushu Institute of Technology, Japan); Myungjin Cho and Kotaro Inoue (Hankyong National University, Korea (South)); Min-Chul Lee (Kyushu Institute of Technology, Japan)
3	1570615238	Semantic Video Segmentation with Dense-and-Dual Warping Spatial Features	Mehwish Awan and Jitae Shin (Sungkyunkwan University, Korea (South))
4	1570620844	Object Detection Framework for High Mobility Vehicles Tracking in Night-Time	Tung Lam Pham, Hoan Nguyen, Van Bui, Huy Nguyen, Van Hoa Nguyen and Yeong Min Jang (Kookmin University, Korea (South))
5	1570611203	A generalized sub-pixel mapping algorithm for auto-stereoscopic displays using slanted optical plates	Hyun-Woo Kim (Kyushu Institute of Technology, Japan); Myungjin Cho (Hankyong National University, Korea (South)); Min-Koo Kang (Korea Institute of Science and Technology, Korea (South)); Sung-Kyu Kim (Korea Institute of Science and Technology (KIST), Korea (South)); Min-Chul Lee (Kyushu Institute of Technology, Japan)
6	1570601801	Image Quality Enhancement With Machine Learning Based Multi-Step Super-Resolution	Niai Yano and Hiroshi Watanabe (Waseda University, Japan)
<b>4A: AI Applications for Networking and IoT 1 (09:00 AM - 10:40 AM, Feb. 20, 2020)</b>			<b>Session Chair: Prof. Chase Q. Wu (New Jersey Institute of Technology &amp; Oak Ridge National Laboratory, USA)</b>
1	1570609646	Q-Transfer: A Novel Framework for Efficient Deep Transfer Learning in Networking	Trung V. Phan (Technische Universität Chemnitz, Germany); Shabnam Sultana (Technical University of Chemnitz, Germany); Tri Gia Nguyen (Duy Tan University, Vietnam); Thomas Bauschert (Chemnitz University of Technology, Germany)
2	1570611814	A Deep Autoencoder Approach to Received Signal Strength-Based Localization with Unknown Channel Parameters	Chaehun Im (University of Yonsei, Korea (South)); Sunghoon Jung and Chungyong Lee (Yonsei University, Korea (South))
3	1570619397	Down-clocking Scheme using Deep Learning for Minimizing Energy Consumption in Wireless Networks	JaeHyeon Park, Seung-Hyun Jeong and Young-Joo Suh (Pohang University of Science and Technology (POSTECH), Korea (South))
4	1570616171	Performance Evaluation of Machine Learning Based Channel Selection Algorithm Implemented on IoT Sensor Devices and Its Application to Wireless Sensor Network for Building Monitoring System	So Hasegawa, Ryoma Kitagawa, Takumi Ito and Takashi Nakajima (Tokyo University of Science, Japan); Song-Ju Kim (Keio University, Japan); Yozo Shoji (National Institute of Information and Communications Technology, Japan); Mikio Hasegawa (Tokyo University of Science, Japan)
5	1570612735	SICNN: Spatial Interpolation with Convolutional Neural Networks for Radio Environment Mapping	Riku Hashimoto and Katsuya Suto (The University of Electro-Communications, Japan)
<b>4B: AI for Control and Decision Systems 1 (09:00 AM - 10:40 AM, Feb. 20, 2020)</b>			<b>Session Chair: Dr. Hirotada Honda (Toyo University, Japan)</b>
1	1570612062	Estimation of Probability Density Function Using Multi-bandwidth Kernel Density Estimation for Throughput	Norisato Suga (ATR & Tokyo University of Science, Japan); Kazuto Yano (ATR, Japan); Julian L Webber (Osaka University & Advanced Telecommunications Research Institute International, Japan); Yafei Hou (Okayama University, Japan); Toshihide Higashimori and Yoshinori Suzuki (ATR, Japan)
2	1570617003	Utilization of Postural Transitions in Sensor-based Human Activity Recognition	Nguyen Thi Hoai Thu (Kyungpook National University, Korea); Dong Seog Han (Kyungpook National University, Korea (South))
3	1570611899	Waveform-based End-to-end Deep Convolutional Neural Network with Multi-scale Sliding Windows for Weakly Labeled Sound Event Detection	Seokjin Lee and Minhan Kim (Kyungpook National University, Korea (South))
4	1570600118	A Bilingual Chatbot Using Support Vector Classifier On an Automatic Corpus Engine Dataset	Jasper Kyle Catapang (University of the Philippines Manila, Philippines); Geoffrey Solano (University of the Philippines, Manila & University of the Philippines, Diliman, Philippines); Nathaniel Oco (De La Salle University, Philippines)
5	1570611940	PPMC Training Algorithm: A Deep Learning Based Path Planner and Motion Controller	Tamir Blum and William Jones (Tohoku University, Japan); Kazuya Yoshida (Space Robotics Laboratory, Tohoku University, Japan)
<b>5A: AI Applications for Networking and IoT 2 (11:00 AM - 12:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Prof. Takeo Fujii (The University of Electro-Communications, Japan)</b>

1	1570621069	AI based Location Tracking in WiFi Indoor Positioning Application	Jeong Gon Kim (Korea Polytechnic University, Korea (South))
2	1570601912	Computational Offloading of Convolutional Neural Network on a Smart Watch	Imran A. Zualkernan and Mohammed Towheed (American University of Sharjah, United Arab Emirates)
3	1570616117	UAV-assisted Real-time Data Processing using Deep Q-Network for Industrial Internet of Things	Riesa Krisna Astuti Sakir, Muhammad Rusyadi Ramli, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
4	1570616174	Receiver Beacon Transmission Interval Design Using Q-Learning focused on Packet Delivery Rate for Multi-Stage Wireless Sensor Networks	Yu-ki Hatada and Takeo Fujii (The University of Electro-Communications, Japan)
5	1570611219	1D CNN based network intrusion detection with normalization on imbalanced data	Wooseong Kim and Meliboev Azizjon (Gachon University, Korea (South)); Alikhanov Jumabek (Inha University, Korea (South))
<b>5B: AI for Control and Decision Systems 2 (11:00 AM - 12:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Dr. Patrick Philipp (Karlsruhe Institute of Technology (KIT), Germany)</b>
1	1570616777	Predictive Analysis of Business Processes Using Neural Networks with Attention Mechanism	Patrick Philipp (Karlsruhe Institute of Technology (KIT), Germany); Ruben Jacob (Karlsruhe Institute of Technology KIT, Germany); Sebastian Robert (Fraunhofer IOSB, Germany); Jürgen Beyerer (Karlsruhe Institute of Technology (KIT), Germany); Jürgen Beyerer (Fraunhofer IOSB, Germany)
2	1570611975	Precision Analysis of Bresenham's Algorithm on Low-power Intelligent Seeding System	Rahimi Zahari, Tiong Hoo Lim and Serina Lim Chee Lian (Universiti Teknologi Brunei, Brunei Darussalam)
3	1570612246	Reservoir computing with inertial manifold	Hirotsada Honda (Toyo University, Japan)
4	1570608038	Building Activity Profiling: Explainable and Predictive Modeling for Building Automation	Takashi Kasuya (the University of Tokyo & Takenaka Corporation, Japan); Hiroshi Esaki (The University of Tokyo, Japan); Takeshi Takai (Takenaka Corporation, Japan)
5	1570611029	Traffic Congestion Level Prediction Based on Recurrent Neural Networks	Fei-Rong Huang, Cong-Siang Wang and Chih-Min Chao (National Taiwan Ocean University, Taiwan)
<b>6A: AI Applications for Mobile Communication 1 (14:00 PM - 15:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Prof. Fumiaki Maehara (Waseda University, Japan)</b>
1	1570616098	Deep Learning Based CoMP Transmission Method Using Vehicle Position Information for Taxi Radio Systems	Kazuki Kojima, Yukiko Shimbo, Hirofumi Suganuma and Fumiaki Maehara (Waseda University, Japan)
2	1570611945	Power Control Based on Multi-Agent Deep Q Network for D2D Communication	Shi Gengtian (Waseda, Japan); Jiang Liu (Waseda University, Japan)
3	1570616116	Spectrum Database Aided Prior Vacant Frequency Band Detection for Spectrum Sharing	Miho Musashi and Koichi Adachi (The University of Electro-Communications, Japan)
4	1570616587	Fast Beamforming Strategy: Learning the AoD of the Dominant Path	YongMin Song and Jeongwan Kang (Hanyang University, Korea (South)); Hyekyung Jwa and Jeehyeon Na (ETRI, Korea (South)); Sunwoo Kim (Hanyang University, Korea (South))
5	1570611813	A Localization Method with Insufficient RSS samples using Neural Network	Sunghoon Jung (Yonsei University, Korea (South)); Chaehun Im (University of Yonsei, Korea (South)); Chahyeon Eom and Chungyong Lee (Yonsei University, Korea (South))
<b>6B: AI for Data Analysis, Big Data and Cloud 1 (14:00 PM - 15:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Dr. Rabiul Islam (Tokyo University of Agriculture and Technology, Japan)</b>
1	1570599565	Neural architecture search under black-box objectives with deep reinforcement learning and increasingly-sparse rewards	Mitchel A. Perez, Abel Diaz Berenguer and Ercheng Pei (Vrije Universiteit Brussel, Belgium); Meshia Cédric Oveneke (VUB, Belgium); Hichem Sahli (Vrije Universiteit Brussel, Belgium)
2	1570612341	Measures of Complexity for Large Scale Image Datasets	Ameet Rahane (University of California, Berkeley, USA); Anbumani Subramanian (Intel Corporation, USA)
3	1570611822	Deep Hybrid Fuzzy Neural Hammerstein-Wiener Network for Stock Price Prediction	Chen Xie, Deepu Rajan and Chai Quek (Nanyang Technological University, Singapore)
4	1570612705	A Robust Method for Kernel Principal Component Analysis	Duo Wang and Toshihisa Tanaka (Tokyo University of Agriculture and Technology, Japan)
5	1570611542	Aspect Extraction for Tourist Spot Review in Indonesian Language using BERT	Muhamad Rizky Yanuar and Shun Shiramatsu (Nagoya Institute of Technology, Japan)
<b>7A: AI Applications for Mobile Communication 2 (16:00 PM - 17:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Prof. Dong Myung Lee (Tongmyong University, Korea (South));</b>
1	1570621039	The Role of Deep Learning in NOMA for 5G and Beyond Communications	Moh. Khalid Hasan, Md. Shahjalal, Md. Mainul Islam, Md. Morshed Alam, Md. Faisal Ahmed and Yeong Min Jang (Kookmin University, Korea (South))
2	1570612079	Learning to Communicate with Autoencoders: Rethinking Wireless Systems with Deep Learning	Manuel Eugenio Morocho-Cayamcela, Judith Nkechinyere Njoku and Wansu Lim (Kumoh National Institute of Technology, Korea (South))
3	1570614399	Deep Learning Based Fingerprinting Scheme for Wireless Positioning	Keun Young Seok and Jung Hoon Lee (Hankuk University of Foreign Studies, Korea (South))
4	1570619310	Location Estimation in Indoor Environments Using Multiple Items of Sensed Information	Eisuke Kudoh and Kosuke Karino (Tohoku Institute of Technology, Japan)
5	1570616049	Face Verification Using mmWave Radar Sensor	Eran Hof, Amichai Sanderovich and Evyatar Hemo (Qualcomm Israel, Israel)
6	1570616044	Gesture recognition with 60GHz 802.11 waveforms	Eran Hof, Amichai Sanderovich and Evyatar Hemo (Qualcomm Israel, Israel)
<b>7B: AI for Data Analysis, Big Data and Cloud 2 (16:00 PM - 17:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Prof. Hiroaki Mukaidani (Hiroshima University, Japan)</b>

1	1570612362	Who wins the Game of Thrones? How Sentiments improve the Prediction of Candidate Choice	Chaehan So (Yonsei University, Korea (South))
2	1570587908	Effective-target Representation via LSTM with Attention for Aspect-level Sentiment Analysis	Quan Liu and Hiroaki Mukaidani (Hiroshima University, Japan)
3	1570616688	Attention Based R&CNN Medical Question Answering System in Chinese	Huey-Ing Liu (Fu-Jen Catholic University, Taiwan); Wei Lin Chen (Fu Jen Catholic University, Taiwan); Chih-Chien Ni (Fu Jen University, Taiwan); ChengHung Hsu (Fu Jen Catholic University, Taiwan); Weiming Chen (Congregation for Catholic Education, Taiwan); Yan-Ting Liu (Fu Jen University, Taiwan)
4	1570621304	Visualization Techniques for Outlier Data	Choi Seoung-Ho, Oh Young-Kyo and Dongyoung Koo (Hansung University, Korea (South))
5	1570612028	Leveraging Bayesian Deep Learning for Spaceborne GNSS-R Retrieval on Global Soil Moisture	Aung Lwin (School of Electronic and Information Engineering & Beihang University, China); Dongkai Yang and Hong Xuebao (Beihang University, China)
<b>8A: AI for Neuroscience and eHealth 1 (09:00 AM - 10:40 AM, Feb. 21, 2020)</b>			<b>Session Chair: Prof. Kalyana Veluvolu (Kyungpook National University, Korea (South))</b>
1	1570616205	EEG based Functional Connectivity Analysis of Alzheimer's Disease Subjects	Dajjiry Narzary and Kalyana Veluvolu (Kyungpook National University, Korea (South))
2	1570617777	A CNN-LSTM Approach to Human Activity Recognition	Ronald Mutegeki and Dong Seog Han (Kyungpook National University, Korea (South))
3	1570609553	deSSIde: A Clinical Decision-Support Tool for Surgical Site Infection Prediction	Geoffrey Solano (University of the Philippines, Manila & University of the Philippines, Diliman, Philippines); Harold Mansilla and Marie Carmela Lapitan (University of the Philippines Manila, Philippines)
4	1570597978	Classification of Colposcopy Data Using GLCM-SVM on Cervical Cancer	Muhammad Thohir (Universitas Islam Negeri Sunan Ampel, Indonesia); Ahmad Zoebad Foeady (UIN Sunan Ampel Surabaya, Indonesia); Dian Candra Rini Novitasari (Universitas Islam Negeri Sunan Ampel, Indonesia); Ahmad Zaenal Arifin (Universitas PGRI Ronggolawe, Indonesia); Bunga Phiadelvira (UIN Sunan Ampel Surabaya, Indonesia); Ahmad Hanif Asyhar (Universitas Islam Negeri Sunan Ampel, Indonesia)
5	1570616093	Outbreak Prediction of Hepatitis A in Korea based on Statistical Analysis and LSTM Network	Mun Kyu Lee (Chosun University, Korea (South)); Jong Ho Paik (Seoul Women's University, Korea (South)); In Seop Na (Chosun University, Korea (South))
<b>8B: AI for Energy, Computer Systems and Semiconductor Device (09:00 AM - 10:40 AM, Feb. 21, 2020)</b>			<b>Session Chair: Prof. Yoshikazu Fukuyama (Meiji University, Japan)</b>
1	1570616985	An Improved Stator Winding Short-circuit Fault Diagnosis using AdaBoost Algorithm	Tanvir Alam Shifat and Jang-Wook Hur (Kumoh National Institute of Technology, Korea (South))
2	1570620842	Power Demand Forecasting Using Long Short-Term Memory Neural Network based Smart Grid	Van Hoa Nguyen, Van Bui and Yeong Min Jang (Kookmin University, Korea (South)); Joongheon Kim (Korea University, Korea (South))
3	1570610857	Automotive Ethernet-Based Black Box System	Yan-Xun LU, Yung-Yuan Chen and Wen-Nan Fang (National Taipei University, Taiwan)
4	1570612154	Swarm Reinforcement Learning using DEEPSO-Q with Advantage for Operational Planning of Energy Plants	Kenjiro Takahashi and Yoshikazu Fukuyama (Meiji University, Japan)
5	1570616867	Intelligent Solenoid Pump Fault Detection based on MFCC Features, LLE and SVM*	Ugochukwu Ejike Akpudo and Jang-Wook Hur (Kumoh National Institute of Technology, Korea (South))
<b>9A: AI for Neuroscience and eHealth 2 (11:00 AM - 12:40 PM, Feb. 21, 2020)</b>			<b>Session Chair: Prof. Seokjoo Shin (Chosun University, Korea (South))</b>
1	1570598043	Cervical Cancer Identification Based Texture Analysis Using GLCM-KELM on Colposcopy Data	Dian Candra Rini Novitasari, Ahmad Hanif Asyhar and Muhammad Thohir (Universitas Islam Negeri Sunan Ampel, Indonesia); Ahmad Zaenal Arifin (Universitas PGRI Ronggolawe, Indonesia); Hanimatim Mu'jizah and Ahmad Zoebad Foeady (UIN Sunan Ampel Surabaya, Indonesia)
2	1570597967	Automatic Approach for Cervical Cancer Detection Based on Deep Belief Network (DBN) Using Colposcopy Data	Dian Candra Rini Novitasari (Universitas Islam Negeri Sunan Ampel, Indonesia); Ahmad Zoebad Foeady (UIN Sunan Ampel Surabaya, Indonesia); Muhammad Thohir (Universitas Islam Negeri Sunan Ampel, Indonesia); Ahmad Zaenal Arifin (Universitas PGRI Ronggolawe, Indonesia); Khoirun Niam (UIN Sunan Ampel Surabaya, Indonesia); Ahmad Hanif Asyhar (Universitas Islam Negeri Sunan Ampel, Indonesia)
3	1570599216	Personality Classification by Applying k-Means Clustering	Assem Talasbek and Azamat Serek (Suleyman Demirel University, Kazakhstan); Meirambek Zhaparov (Paragon International University, Cambodia); Seong-Moo Yoo (University of Alabama-Huntsville, USA); Yong-Kab Kim and Geun-Ho Jeong (Wonkwang University, Korea (South))
4	1570601309	A Comparison of Machine Learning Algorithms for Fall Detection using Wearable Sensors	Nicolas Zurbuchen (University of Applied Sciences and Arts Western Switzerland & Institute of Complex Systems, Switzerland); Pascal Bruegger (School of Engineering and Architecture - University of Applied Sciences - Western Switzerland & ICoSys Institute, Switzerland); Adriana Wilde (University of Southampton, United Kingdom (Great Britain))
5	1570616195	Analysis of Detecting Compensation for Robotic Stroke Rehabilitation Therapy using Imbalanced Learning and Outlier Detection	Sean Rich U Uy (Ateneo De Manila University, Philippines); Patricia Angela Abu (Ateneo de Manila University, Philippines)
<b>9B : AI Foundation (11:00 AM - 12:40 PM, Feb. 21, 2020)</b>			<b>Session Chair: Prof. Wooyeol Choi (Chosun University, Korea (South))</b>

1	1570612120	Audio Translation with Conditional Generative Adversarial Networks	Ahmad Yunis Moussa and Hiroshi Watanabe (Waseda University, Japan)
2	1570619325	Improving Robustness Against Adversarial Example Attacks Using Non-Parametric Models on MNIST	SangHyeon An (Sogang University, Korea(South)); Min Jun Lee and Jungmin So (Sogang University, Korea (South))
3	1570612194	A Method to Determine if a Test Case is Necessary using Support Vector Machine	Satoshi Sunaga and Kazuhiro Kikuma (NTT Corporation, Japan)
4	1570612260	A Survey of Missing Data Imputation Using Generative Adversarial Networks	Jaeyoon Kim, Donghyun Tae and Junhee Seok (Korea University, Korea (South))
5	1570609998	Chinese Story Generation Using Conditional Generative Adversarial Network	Jhe-Wei Lin, Jo-han Tseng and Rong-Guey Chang (National Chung Cheng University, Taiwan)

## Poster Sessions

Seq. No.	Paper No.	Title	Authors with affiliation and country
<b>Poster session 1 (14:00 PM - 15:40 AM, Feb. 19, 2020)</b>			<b>Session Chair: Prof. Youn-Hee Han (Korea University of Technology and Education, Korea (South))</b>
1	1570616112	Federated Reinforcement Learning for Controlling Multiple Rotary Inverted Pendulums in Edge Computing Environments	Hyun-Kyo Lim, Ju-Bong Kim, Chan-Myung Kim, Gyu-Young Hwang, Ho-Bin Choi and Youn-Hee Han (Korea University of Technology and Education, Korea (South))
2	1570625067	Transmission Opportunity-Based Distributed OBSS/PD Determination Method in IEEE 802.11ax Networks	Yonggang Kim (Samsung Electronics, Korea (South)); Gyungmin Kim (GIST, Korea (South)); Taewoon Kim (Hallym University, Korea (South)); Wooyeol Choi (Chosun University, Korea (South))
3	1570619557	Hand gesture classification based on short-time fourier transform of inaudible sound	Jinwon Cheon and Sunwoong Choi (Kookmin University, Korea (South))
4	1570616134	Topological Deep Network Embedding	Mohammadreza Radmanesh and Ahmad Asgharian Rezaei (Royal Melbourne Institute of Technology, Australia); Nameer Al Khafaf and Mahdi Jalili (RMIT University, Australia)
5	1570616348	A Premature Ventricular Complex Detection Chip Using Convolution Neural Network	Yu-Lun Huang and Yuan-Ho Chen (Chang Gung University, Taiwan)
6	1570598011	Implementation LSTM Algorithm for Cervical Cancer using Colposcopy Data	Ahmad Hanif Asyhar (Universitas Islam Negeri Sunan Ampel, Indonesia); Ahmad Zoebad Foady (UIN Sunan Ampel Surabaya, Indonesia); Muhammad Thohir (Universitas Islam Negeri Sunan Ampel, Indonesia); Ahmad Zaenal Arifin (Universitas PGRI Ronggolawe, Indonesia); Dlna Haq (UIN Sunan Ampel Surabaya, Indonesia); Dian Candra Rini Novitasari (Universitas Islam Negeri Sunan Ampel, Indonesia)
7	1570612700	Automatic Detection of Epileptic Focus in Ripple and Fast Ripple Bands of Interictal iEEG based on Multi-band Analysis	Most. Sheuli Akter, Md. Rabiul Islam and Kosuke Fukumori (Tokyo University of Agriculture and Technology, Japan); Yasushi Iimura and Hidenori Sugano (Juntendo University, Japan); Toshihisa Tanaka (Tokyo University of Agriculture and Technology, Japan)
8	1570616415	Distributed online Data Anomaly Detection for connected vehicles	Naman Negi (Telecom Paris, France); Ons Jelassi (Telecom Paris - IPParis, France); Hakima Chaouchi (Telecom Sud Paris- Institut Mines Telecom & CNRS SAMOVAR, France); Stéphan Cléménçon (Institut Télécom Télécom ParisTech CNRS LTCI, France)
9	1570615573	Improvement of inter-protocol fairness for BBR congestion control using machine learning	Geon-Hwan Kim (Kyungpook National University, Korea (South)); Yeong-Jun Song (Kyungpook National University(KNU), Korea (South)); You-Ze Cho (Kyungpook National University, Korea (South))
10	1570616213	Ocean Current Prediction Model Based on Machine Learning for Deciding Handover Priority in Underwater Wireless Sensor Networks	Seok hyeon Park and Junghun Byun (Chungbuk National University, Korea (South)); Kyung-Seop Shin (Korea Advanced Institute of Science and Technology, Korea (South)); Ohyun Jo (Chungbuk National University, Korea (South))
11	1570620862	An Overview of AI-Enabled Remote Smart-Home Monitoring System Using LoRa	Md. Shahjalal, Moh. Khalid Hasan, Md Mainul Islam, Md. Morshed Alam, Md. Faisal Ahmed and Yeong Min Jang (Kookmin University, Korea (South))
12	1570600036	Cluster Quantity Distinguished by Geometric Angle Measurement	Zhongyang Shen (China Mobile, China)
13	1570611453	Effective Garbage Data Filtering Algorithm for SNS Big Data Processing by Machine Learning	Il-Kyu Ha (Kyungil University, Korea (South)); Bong-Hyun Back (Yeungnam University, Korea (South))
14	1570615113	Toward Detecting IoT Device Traffic in Transit Networks	Guannan Hu (The Graduate University for Advanced Studies, Japan); Kensuke Fukuda (National Institute of Informatics, Japan)
<b>Poster session 2 (11:00 AM - 12:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Dr. Ronnie O. Serfa Juan (Cheongju University, Korea (South))</b>
1	1570612144	Burst Error Correction for Convolutional Code Concatenated with Hamming code with a block interleaver	Shin Jihwan and Ho-Kyeong Lee (Hongik University, Korea (South))
2	1570619494	Computation Offloading-Based Task Scheduling in the Vehicular Communication Environment for Computation-Intensive Vehicular Tasks	Minyeong Gong and Sanghyun Ahn (University of Seoul, Korea (South))



3	1570616474	Hedging option contracts with locally weighted regression, functional data analysis, and Markov chain Monte Carlo techniques	Jae Yun Jun Kim and Yves Rakotondratsimba (ECE Paris, France)
4	1570618732	A Study on Methods of Automatic Extraction of Korean-Language Modification Relationships for Sentiment analysis	Hanjo Jeong, Jeongwon Kwak, Joonhyung Kim, Jiyoun Jang and Hyukjoon Lee (Kwangwoon University, Korea (South))
5	1570615724	Data Governance on Business/Data Dictionary using Machine Learning and Statistics	Philip W Shin, Jinhee Lee and Seung Ho Hwang (Data Streams Corporation, Korea (South))
6	1570612247	Voltage and Reactive Power Control by Parallel Modified Brain Storm Optimization	K. Matsumoto (Meiji University & School of Interdisciplinary Mathematical Science, Japan); Yoshikazu Fukuyama (Meiji University, Japan)
7	1570612233	Blind Synchronization for CP-OFDM Systems	Chi-Min Li (National Taiwan Ocean University, Taiwan); Yung-Lin Hsu (National Taiwan University, Taiwan); Jen-Hao Weng (National Taiwan Ocean University, Taiwan)
8	1570613311	Implementation of Computation-Efficient Sensor Network for Kalman Filter-based Intelligent Position-Aware Application	Jisu Kwon (Kyungpook National University, Korea (South)); Daejin Park (Kyungpook National University (KNU), Korea (South))
9	1570600389	Bayesian Inference and Learning for Neural Networks and Deep Learning	Sunghae Jun (Cheongju University, Korea (South))
10	1570612192	RNN-based Prediction for Network Intrusion Detection	ShinHyuk SH Park (Suwon & Ajou univ, Korea (South)); Hyunjae Park and Young-June Choi (Ajou University, Korea (South))
11	1570619108	16QAM Turbo Decoding with Equal Probability Quantization Value	Dae Ho Nam and Ho-Kyeong Lee (University of Hongik, Korea (South))
12	1570616118	Photovoltaic Cell Defect Detection Model based-on Extracted Electroluminescence Images using SVM Classifier	Ronnie O. Serfa Juan and Jeha Kim (Cheongju University, Korea (South))
13	1570618940	Group-based Transmission Scheduling Scheme for Building LoRa-based Massive IoT	Joo-Sang Youn (Donggeui University, Korea (South))
14	1570620867	RNN-based Deep Learning for One-hour ahead Load Forecasting	Van Bui, Van Hoa Nguyen, Tung Lam Pham and Yeong Min Jang (Kookmin University, Korea (South))
15	1570612072	Classification vs Regression by CNN for Handwashing Skills Evaluations in Nursing Education	Kazushi Yamamoto, Hideaki Touyama and Fumiya Kinoshita (Toyama Prefectural University, Japan); Miho Yoshii (University of Toyama, Japan)
16	1570616192	A Sound Source-based Intelligent Context Awareness System using CNN	Dong Myung Lee, Gi Ho Nam and Boney Labinghisa (Tongmyong University, Korea (South)); Changmin Jeong (ES Solution, Korea (South))
17	1570611815	A Deep Neural Network-Based LOS Classification for Triangulation Positioning	Chahyeon Eom and Chungyong Lee (Yonsei University, Korea (South))
<b>Poster session 3 (14:00 PM - 15:40 PM, Feb. 20, 2020)</b>			<b>Session Chair: Prof. Yasuyuki Tahara (UEC, Japan)</b>
1	1570611568	Estimating Twitter user's interest for inviting potential participants into Web-based debate platforms based on BERT	Chao Cai and Shun Shiramatsu (Nagoya Institute of Technology, Japan)
2	1570601910	Using Convolutional Neural Networks for Smart Classroom Observation	Muhammed S Khan (Regis University, USA); Imran A. Zulkernan (American University of Sharjah, United Arab Emirates)
3	1570611555	Deep LSTM and GAN based Short-term Load Forecasting Method at the Zone Level	Jianguang Zhang (State Grid Shaoxing Power Supply Company, China); Xuyang Zhang (State Grid Zhejiang Shengzhou Power Supply Co., Ltd., China); Jianfeng Yang (State Grid Shaoxing Power Supply Company, China); Zhaoxu Wang (State Grid Zhejiang Shengzhou Power Supply Co., Ltd, China); Yufan Zhang, Qian Ai, Zhaoyu Li, Ziru Sun and Shuangrui Yin (Shanghai Jiao Tong University, China)
4	1570612019	Generalized Load Modeling Method Based on Clustering and Neural Network	Wenbo Li (State Grid Shandong Electric Power Research Institute, China); Luhua Xing (State Grid Shandong Electric Power Research Institute & State Grid Corporation of China, China); Kaiyi Huang and Qian Ai (Shanghai Jiao Tong University, China); Liang Wang (State Grid Shandong Electric Power Research Institute, China)
5	1570617237	Object Detection Using Vision and LiDAR Sensor Fusion for Multi-channel V2X System	Gyu Ho Lee (Kyungpook National University, Korea (South)); JiDong Choi (80 Daehak-ro Buk-gu Daegu Republic of Korea & Kyungpook National University, Korea (South)); Jong Hyuk Lee (Kyunpook National University, Korea (South)); Min Young Kim (Kyungpook National University, Korea (South))
6	1570621089	Blockchain-based Energy Transaction Model for Electric Vehicles	Md Mainul Islam, Md. Shahjalal, Moh. Khalid Hasan and Yeong Min Jang (Kookmin University, Korea (South))
7	1570611055	Various Forms of Finite Memory Structure Filter for Discrete-Time State-Space Model	Pyung Soo Kim and Min Hui Kim (Korea Polytechnic University, Korea (South))
8	1570611851	Coresets for PCB Character Recognition based on Deep learning	Sumyung Gang, Ndayishimiye Fabrice and Joon-Jae Lee (Keimyung University, Korea (South))
9	1570612284	A Survey of Deep Learning and Its Application in Distribution Network	Xiaomin Yin, Xiandong Li, Yan Zhang, Tao Zhang and Chunhui Lu (State Grid Liaocheng Power Supply Company, China); Qian Ai, Zhaoyu Li and Ziru Sun (Shanghai Jiao Tong University, China)
10	1570601332	3D-CNN with residual sub-blocks for automatic detection of lung nodules from temporal subtraction Images	Yuriko Yoshino (Kyushu Institute of Technology, Japan)

11	1570611463	A Black Box Modeling Technique for Distortion Stomp Boxes Using LSTM Neural Networks	Naofumi Aoki (Hokkaido University, Japan)
12	1570612312	Brain-inspired Method for Hyper-connected and Distributed Intelligence	Sang Ki Kim and Sunme Kim (ETRI, Korea (South))
13	1570611984	Performance Analysis of Fingerprint Matching Algorithms for Indoor Localization	Alwin Poulouse and Dong Seog Han (Kyungpook National University, Korea (South))
14	1570616132	The Diffusion Barriers of AI Mobility Service: the case of TADA	Sungwon Kim, Hyunae Park and Hwansoo Lee (Dankook University, Korea (South))
15	1570616329	Facial Keypoint Detection with Convolutional Neural Networks	Savina Colaco and Dong Seog Han (Kyungpook National University, Korea (South))
16	1570611612	Machine learning based SRM control using FPGAs for torque ripple minimization	Srinivasan Kandhasamy (Robert Bosch Engineering and Business Solutions, India)
<b>Poster session 4 (09:00 AM - 10:40 AM, Feb. 21, 2020)</b>			<b>Session Chair: Prof. Yeong Min Jang (Kookmin University, Korea (South))</b>
1	1570612352	An Overview of Gaussian process Regression for Volatility Forecasting	Bingqing Liu, Ivan Kiskin and Stephen Roberts (University of Oxford, United Kingdom (Great Britain))
2	1570616221	Visualizing the Malicious of Your Network Traffic by Explained Deep Learning	Tsung-Yu Ho, Wei-An Chen, Ming-Kung Sun and Chiung-Ying Huang (Acer Cyber Security Inc., Taiwan)
3	1570616224	Are you an Introvert or Extrovert? Accurate Classification with only ten Predictors	Chaehan So (Yonsei University, Korea (South))
4	1570616994	Regional Weighted Generative Adversarial Network for LDR to HDR Image Conversion	SungWoon Jung, Dong-Min Son, Hyuk-Ju Kwon and Sung-Hak Lee (Kyungpook National University & School of Electronics Engineering, Korea (South))
5	1570612115	Design of Modular Battery Management System with Point-to-point SoC Estimation Algorithm	Angela Caliwag, Kumbayoni Lalu Muh, Sohee Kang and Wansu Lim (Kumoh National Institute of Technology, Korea (South))
6	1570612190	A Study on Automatic Music Genre Classification Based on the Summarization of Music Data	Naofumi Aoki (Hokkaido University, Japan)
7	1570615092	MAC Protocol Design Optimization Using Deep Learning	Hannaneh Barahouei Pasandi and Tamer Nadeem (Virginia Commonwealth University, USA)
8	1570621026	Automatic Control Approach of Reactive Power Compensation of Smart Grid	Md. Morshed Alam, Md. Faisal Ahmed and Yeong Min Jang (Kookmin University, Korea (South))
9	1570611906	Exploratory Study on Correlations between Students' Characteristics and Effects in the Case of Online Learning on University Students	Ryo Sugawara (Meisei University, Japan); Shun Okuhara (Japan, Japan)
10	1570614805	Digital Assistant for the Visually Impaired	Ezekiel Marvin (Universitas Prasetiya Mulya, Indonesia)
11	1570620977	Optical Camera Communication (OCC) application using display modulation	Hoan Nguyen, Van Hoa Nguyen and Yeong Min Jang (Kookmin University, Korea (South))
12	1570611661	Edge Camera based Dynamic Light Control System for Smart Streetlights	Jang Woon Baek (ETRI, Korea (South))
13	1570612261	Recognized Smartwatch Based Location using the HMM	Ho Chul Lee and Dong Myung Lee (Tongmyong University, Korea (South))
14	1570601205	Study of drowsiness from simple physiological signals testing	Noppawit Aeimpreeda, Charat Thothong, Pornkanok Sukaimod, Pinkaew Khongsabai and Direk Sueaseenak (Srinakharinwirot University, Thailand)
15	1570616372	EEG-Based Motor Imagery Classification Using Novel String Grammar Fuzzy K-Nearest Neighbor Techniques with One Prototype in Each of Classes	Payungsak Kasemsumran (Maejo University, Thailand); Ekkarat Boonchieng (Chiang Mai University, Thailand)