

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
1A	Artificial Intelligence and Machine Learning I	1570740078	A Case Study: Characterization of Performance Inconsistency for Reinforcement Learning on Flappy Bird Game	Aidar Shakerimov, Dmitriy Li and Jurn-Gyu Park (Nazarbayev University, Kazakhstan)
1A	Artificial Intelligence and Machine Learning I	1570746086	Transformer based prediction method for solar power generation data	Nacwoo Kim, HyunYong Lee, Jungi Lee and Byung Tak Lee (ETRI, Korea (South))
1A	Artificial Intelligence and Machine Learning I	1570748537	Benchmark Analysis of Deep Learning-based 3D Object Detectors on NVIDIA Jetson Platforms	Minjae Choe (University of Illinois at Urbana-Champaign (UIUC), USA); Sukjun Lee (Korea Electronics Technology Institute (KETI), Korea (South)); Nak-Myoung Sung (Korea Electronics Technology Institute, Korea (South)); Sungwook Jung and Chungjae Choe (Korea Electronics Technology Institute (KETI), Korea (South))
1A	Artificial Intelligence and Machine Learning I	1570749724	Performance evaluation method of cyber attack behaviour forecasting based on mitigation	Changhee Choi (Agency For Defense Development, Korea (South)); SungUk Shin (Agency for Defense Development, Korea (South)); Chanho Shin (Agency For Defense Development, Korea (South))
1A	Artificial Intelligence and Machine Learning I	1570751100	Machine Learning for Diabetes Prediction	Usman Ahmed and Chunxiao Li (Yangzhou University, China)
1A	Artificial Intelligence and Machine Learning I	1570754616	A Comprehensive Data Imbalance Analysis in Covid-19 Classification dataset	Zineb Tissir (Gachon University & Institute of Information & Communications Technology Planning & Evaluation (IITP), Korea (South))
1B	Artificial Intelligence and Machine Learning II	1570737634	Reward Shaping to Learn Natural Object Manipulation With an Anthropomorphic Robotic Hand and Hand Pose Priors via On-Policy Reinforcement Learning	Patricio Rivera (Kyung Hee University, Korea (South)); Jiheon Oh (Kyung Hee University, USA); Edwin Valarezo, Gahyeon Ryu, Hwanseok Jung and Jin Hyunk Lee (Kyung Hee University, Korea (South)); Jin Gyun Jeong (Kyung Hee University, USA); Tae-Seong Kim (Kyung Hee University, Korea (South))
1B	Artificial Intelligence and Machine Learning II	1570740636	A Floyd-Warshall-based Reoptimization of Q Matrix on the Single DVRPPD with On-demand Cancellations	Jasper Kyle Catapang (University of Birmingham, United Kingdom (Great Britain)); Geoffrey A. Solano (University of the Philippines Manila, Philippines)
1B	Artificial Intelligence and Machine Learning II	1570740698	Signal Recovery Technique Using Recurrent Neural Network in Interference Environment	Haesik Kim (VTT Technical Research Centre of Finland, Finland)
1B	Artificial Intelligence and Machine Learning II	1570748959	A Nonlinear Autoregressive Neural Network for Interference Prediction and Resource Allocation in URLLC Scenarios	Christian Padilla, Ramin Hashemi, Nurul Huda Mahmood and Matti Latva-aho (University of Oulu, Finland)
1B	Artificial Intelligence and Machine Learning II	1570750107	Graph Neural Network based Scene Change Detection Using Scene Graph Embedding with Hybrid Classification Loss	Soyeon Kim and Kyungno Joo (KAIST, Korea (South)); Chan-Hyun Youn (Korea Advanced Institute of Science and Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
1B	Artificial Intelligence and Machine Learning II	1570754688	HEp-2 Cell Classification Using an Ensemble of Convolutional Neural Networks	Payam Hosseinzadeh Kasani (Kangwon National University & Kangwon National University Hospital, Korea (South)); Sara Hosseinzadeh Kasani (University of British Columbia, Canada); Han Wool Kim (Seoul National University, Korea (South)); Kee Hyun Cho and Jae-Won Jang (Kangwon National University Hospital, Korea (South)); Cheol-Heui Yun (Seoul National University, Korea (South))
1C	Artificial Intelligence and Machine Learning III	1570737976	Crack Localization of Pipelines Using Machine Learning and Fuzzy Digital Twin	Jongmyon Kim and Farzin Piltan (University of Ulsan, Korea (South))
1C	Artificial Intelligence and Machine Learning III	1570740756	A Preliminary Study on Wav2Vec 2.0 Embeddings for Text-to-Speech	Yohan Lim (University of Science and Technology, Korea (South)); Kim Namhyeong (University of Science and Technology(UST), Korea (South)); Seung Yun, Sanghun Kim and Seung-Ik Lee (Electronics and Telecommunications Research Institute, Korea (South))
1C	Artificial Intelligence and Machine Learning III	1570749239	DARS: Data Augmentation using Refined Segmentation on Computer Vision Tasks	Young Hoon Cho (University of Science and Technology & Electronics and Telecommunications Research Institute, Korea (South)); Jinwuk Seok (Electronics and Telecommunication Research Institute, Korea (South)); Jeong-Si Kim (Electronics and Telecommunications Research Institute, Korea (South))
1C	Artificial Intelligence and Machine Learning III	1570750046	Communication cost reduction using sparse ternary compression and encoding for FedAvg	Khanh Thi Quynh Dinh (Hanoi University of Science and Technology & International Research Institute MICA, Vietnam); Thanh-Hai Tran (Hanoi University of Science and Technology, Vietnam); Thi-Lan Le (School of Electronics and Telecommunications, Vietnam)
1C	Artificial Intelligence and Machine Learning III	1570754104	Quantized Distributed Online Kernel Learning	Jonghwan Park (University of Hanyang, Korea (South)); Songnam Hong (Hanyang University, Korea (South))
1C	Artificial Intelligence and Machine Learning III	1570754257	An Evaluation of Machine Learning Classifiers for Prediction of Alzheimer's Disease, Mild Cognitive Impairment, and Normal Cognition	Payam Hosseinzadeh Kasani (Kangwon National University & Kangwon National University Hospital, Korea (South)); Sara Hosseinzadeh Kasani (University of British Columbia, Canada); Yeshin Kim (Kangwon National University Hospital, Korea (South)); Cheol-Heui Yun (Seoul National University, Korea (South)); Seong Hye Choi (Inha University, Korea (South)); Jae-Won Jang (Kangwon National University Hospital, Korea (South))
1D	Signal and Image Processing	1570739875	Hand Segmentation based on Geometry	Wen Wu, Chunxiao Li and Honghui Jin (Yangzhou University, China)
1D	Signal and Image Processing	1570740001	Digital holographic microscopy (DHM) using a Gaussian weighted sideband to reduce noise from DC spectrum	Hyun-Woo Kim (Kyushu Institute of Technology, Japan); Myungjin Cho (Hankyong National University, Korea (South)); Naoki Konishi and Min-Chul Lee (Kyushu Institute of Technology, Japan)

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
1D	Signal and Image Processing	1570740173	Scatter denoising technique using Fourier domain filtering and integral imaging	Ryo Shinohara, Hyun-Woo Kim and Jaehoon Lee (Kyushu Institute of Technology, Japan); Myungjin Cho (Hankyong National University, Korea (South)); Min-Chul Lee (Kyushu Institute of Technology, Japan)
1D	Signal and Image Processing	1570740585	One-take video boundary point extraction system based on frame characteristics	Jaewon Lee (Korea Electronics Technology Institute, Korea (South)); Dalwon Jang and Jongseol J. Lee (KETI, Korea (South))
1D	Signal and Image Processing	1570741187	PAPR Improvement by Clipping in Spectrum Suppressed Transmission	Teppe Kanke and Takatoshi Sugiyama (Kogakuin University, Japan)
1D	Signal and Image Processing	1570749870	Decompression of Bluetooth-transmitted Audio using Super Resolution for Low-Latency Applications	Allysa Joy Atienza, Andrei Calabano, Marie Lourdes Manalo and Sophia Beatrice Salandanan (University of the Philippines Diliman, Philippines); Charleston Dale M. Ambatali and Franz De Leon (University of the Philippines, Philippines); Crisron Rudolf Lucas (University of the Philippines Diliman, Philippines); Carl Timothy S. Tolentino (University of the Philippines, Diliman, Philippines)
1E	Vehicular Information and Communication Technologies I	1570739385	Data Design for Driving Monitoring of Hydrogen Electric Bus	Yongju Yi (Ajou University, Korea (South)); Jeong Ah Jang (Ajou University & Transportation Oriented Development, Korea (South)); Insik Lee (Ajou University, Korea (South))
1E	Vehicular Information and Communication Technologies I	1570740176	Vehicle Augmented Reality Head-up Display information visualization enhancement algorithm and system	Jaehoon Lee (Kyushu Institute of Technology, Japan); Jungsik Koo and Jiyong Park (Gumi Electronics and Information Technology Research Institute(GERI), Korea (South)); Min-Chul Lee (Kyushu Institute of Technology, Japan)
1E	Vehicular Information and Communication Technologies I	1570740735	Facilitating the Development of Self-driving Cars with Open-source Projects	Hongki Cha (ETRI, Korea (South)); Kangchan Lee (Electronics and Telecommunications Research Institute, Korea (South))
1E	Vehicular Information and Communication Technologies I	1570741298	Improving Loop Counting Algorithms for Public Transportation System Service Level Monitoring Through the Incorporation of a Tolerance Mechanism	Katrina Mae Kopio, John Matthew L. Villaluz and Wilson Tan (University of the Philippines, Philippines); Cedric Angelo Festin (Networks and Distributed Systems Lab, Philippines)
1E	Vehicular Information and Communication Technologies I	1570749905	Coexistence study on 5G V2X in mmWave	Jin Woong Park, Jin-Yup Hwang, Suhwan Lim, Yoonoh Yang and Sang-Wook Lee (LG Electronics, Korea (South))
1E	Vehicular Information and Communication Technologies I	1570750041	Jointly Coordinated GUE-to-BS MP-Terminals in Dense Multi-UAV Based C-NOMA Network Environment	Williams-Paul Nwadiugwu (Kumoh National Institute of Technology & ICT Convergence Research Center, School of Electronic Engineering, Korea (South)); Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
1F	Vehicular Information and Communication Technologies II	1570738989	A Study on the Performance of Multi-Channel Communication Protocol for Intelligent Connected Autonomous Driving System	Yoo-seung Song (ETRI, Korea (South))
1F	Vehicular Information and Communication Technologies II	1570740725	QoS Evaluation of In-Vehicle Network with SPQ of IEEE 802.1TSN	Moe Nitta and Yoshihiro Ito (Nagoya Institute of Technology, Japan)
1F	Vehicular Information and Communication Technologies II	1570748901	C-band Air-to-Ground Communications for Small Drone	Hee Wook Kim (Electronics and Telecommunications Research Institute, Korea (South)); Daeho Kim (Korea (South)); Byounggi Kim and Jongsoo Lee (COMESTAR, Korea (South))
1F	Vehicular Information and Communication Technologies II	1570749139	Propagation characteristics of Urban and Highway Vehicle-to-Everything(V2X) Channels at 5.9 GHz	Chung Sup Kim and Junseok Kim (ETRI, Korea (South)); Jong Soo Lim (Electronics and Telecommunications Research Institute, Algeria); Ju Yeon Hong and Young Jun Chong (ETRI, Korea (South))
1F	Vehicular Information and Communication Technologies II	1570754217	VANET-Enabled Safety and Comfort-Oriented Car-Following System	Hung-Chin Jang and Bing-Yan Li (National Chengchi University, Taiwan)
2A	5G, 4G, WLAN I	1570732547	Fifth Generation Cellular Networks for Underground Block Cave Mining: A Position Paper	Philip Branch (Swinburne University of Technology, Australia)
2A	5G, 4G, WLAN I	1570739338	Performance Analysis of AMC for LTE-LAA under Rayleigh Fading Channel	Jaehong Yi (Samsung Electronics & Samsung Research, Korea (South)); Junseok Kim (Samsung Electronics, Korea (South)); Kitaek Lee and Saewoong Bahk (Seoul National University, Korea (South))
2A	5G, 4G, WLAN I	1570744285	Performance Evaluation of IEEE 802.11ax Midamble and Impact of Interference	Kanghyun Lee and Saewoong Bahk (Seoul National University, Korea (South))
2A	5G, 4G, WLAN I	1570746525	Performance Evaluation of OFDM Hybrid Number and Index Modulation for 6G Mobile System	Mohammad Tanvir Mahmud and Heung-Gyoon Ryu (Chungbuk National University, Korea (South))
2A	5G, 4G, WLAN I	1570748033	A Joint Denoising and Channel Smoothing Algorithm in Time-domain	Juho Park (ETRI, Korea (South)); Moon-Sik Lee (Electronics and Telecommunications Research Institute & Stanford University, Korea (South))
2A	5G, 4G, WLAN I	1570749166	Deep Learning-based Automatic Modulation Classification for Wireless OFDM Communications	Thien Huynh-The (Kumoh National Institute of Technology, Korea (South)); Quoc-Viet Pham (Pusan National University, Korea (South)); Toan-Van Nguyen (Utah State University, USA); Qui Pham and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
2B	5G, 4G, WLAN II	1570740779	Reinforcement Learning-Based Resource Allocation for Streaming in a Multi-Modal Deep Space Network	Taeyun Ha, Junsuk Oh, Donghyun Lee, Jeonghwa Lee, Yongin Jeon and Sungrae Cho (Chung-Ang University, Korea (South))
2B	5G, 4G, WLAN II	1570745407	Joint Optimization of Time and Power allocation in Energy-Constrained Wireless Powered Communication Network	Iqra Hameed and Insoo Koo (University of Ulsan, Korea (South))
2B	5G, 4G, WLAN II	1570754270	NOMA-based Uplink OFDMA Collision Reduction in 802.11ax Networks	Won-Jae Lee (Ajou, Korea (South)); Wonjae Shin (Ajou University, Korea (South)); Joan A Ruiz-de-Azua (i2CAT Foundation, Spain); Lara Fernandez Capon and Hyuk Park (UPC-BarcelonaTech, Spain); Jae-Hyun Kim (Ajou University, South Korea, Korea (South))
2B	5G, 4G, WLAN II	1570754276	A Design of Hybrid CSMA using Sequential-based Scheduling Algorithm	Tae Yoon Kim (University of Ajou, Korea (South)); Lara Fernandez Capon and Hyuk Park (UPC-BarcelonaTech, Spain); Jae-Hyun Kim (Ajou University, South Korea, Korea (South))
2B	5G, 4G, WLAN II	1570754317	Weighted Sum-Rate Maximization for Rate-splitting Multiple Access with Imperfect Channel Knowledge	Byungju Lee (Kumoh National Institute of Technology, Korea (South)); Wonjae Shin (Ajou University, Korea (South)); H. Vincent Poor (Princeton University, USA)
2B	5G, 4G, WLAN II	1570755763	Profiling Vehicles for Improved Small Cell Beam-Vehicle Pairing Using Multi-Armed Bandit	Abdulkadir Kose, Chuan Heng Foh, Haeyoung Lee and Klaus Moessner (University of Surrey, United Kingdom (Great Britain))
2C	5G, 4G, WLAN III	1570742513	Carrier Frequency Offset Estimation for OFDM System with Large Oscillator Phase Noise	Jun woo Kim (ETRI, Korea (South)); Yong Su Lee (Electronics and Telecommunications Research Institute, Korea (South)); Young-jin Moon (ETRI, Korea (South)); Seungjae Bahng (Electronics and Telecommun. Research Institute, Korea (South)); Jang-won Moon and Heesoo Lee (ETRI, Korea (South))
2C	5G, 4G, WLAN III	1570749348	Performance Evaluation of Efficient Collection Method of Sensor Information in Wireless Sensor Networks for Event Detection	Taiki Suehiro, Tsuyoshi Kobayashi, Osamu Takyu and Yasushi Fuwa (Shinshu University, Japan)
2C	5G, 4G, WLAN III	1570749354	Actual Machine Experiment of Efficient Collection Method of Sensor Information in Wireless Sensors Network for Event Detection	Taiki Suehiro, Tsuyoshi Kobayashi, Osamu Takyu and Yasushi Fuwa (Shinshu University, Japan)
2C	5G, 4G, WLAN III	1570749835	High Linearity Ka-band GaN Hemt Low Noise Amplifier	Ji-Seung Seo (KETI(Korea Electronics Technology Institute), Korea (South))
2C	5G, 4G, WLAN III	1570751817	Performance Enhancement of UFMC Systems using Kaiser Window Filter	Esmot Ara Tuli (Kumoh National Institute of Technology & Networked Systems Lab, Korea (South)); Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
2C	5G, 4G, WLAN III	1570754223	DNN inference offloading for object detection in 5G multi-access edge computing	Geun-Yong Kim, Ryangsoo Kim, Sungchang Kim and Ki-Dong Nam (ETRI, Korea (South)); Sung-Uk Rha (NIA, Korea (South)); Jung-Hyun Yoon (Korea Telecom, Korea (South))
2D	ICT Communication	1570744361	Personality Enhancement for Speaker-dependent Voice Activity Detection	JoonGyu Maeng (University of Science and Technology, Korea (South)); Minkyu Lee, Seung Yun and Sanghun Kim (Electronics and Telecommunications Research Institute, Korea (South))
2D	ICT Communication	1570749444	Decision-Tree Based Transceiver Selection for Medium Access Control in Wireless Sensor Networks	Arnold Chau (HME ClearCom, United Kingdom (Great Britain)); Paul D Mitchell and John F Dawson (University of York, United Kingdom (Great Britain))
2D	ICT Communication	1570749479	Simplifying Dynamic Public Key Certificate Graph for Certification Path Building in Distributed Public Key Infrastructure	Shohei Kakei (Nagoya Institute of Technology, Japan); Yoshiaki Shiraishi (Kobe University, Japan); Shoichi Saito (Nagoya Institute of Technology, Japan)
2D	ICT Communication	1570752930	Delay Performance Optimization in Passive Optical Network	Fahmida Rawshan, Monir Hossen and Md. Rafiqul Islam (Khulna University of Engineering & Technology, Bangladesh)
2D	ICT Communication	1570754744	Ergodic Capacity of Cognitive Satellite-Terrestrial Relay Networks with Practical Limitations	Yerassyl Akhmetkazyev and Galymzhan Nauryzbayev (Nazarbayev University, Kazakhstan); Sultangali Arzykulov (King Abdullah University of Science and Technology, Saudi Arabia); Khaled M. Rabie (Manchester Metropolitan University, United Kingdom (Great Britain)); Ahmed M. Eltawil (King Abdullah University of Science and Technology, Saudi Arabia)
2D	ICT Communication	1570756625	Analytical Framework for NOMA-assisted mmWave D2D Networks with System Impairments	Leila Tlebaldiyeva and Galymzhan Nauryzbayev (Nazarbayev University, Kazakhstan); Sultangali Arzykulov (King Abdullah University of Science and Technology, Saudi Arabia); Yerassyl Akhmetkazyev and Mohammad Hashmi (Nazarbayev University, Kazakhstan)
2E	Communication Networks and Future Internet Technologies I	1570736207	Towards Detection and Mitigation of Traffic Anomalies in SDN	Zohaib Latif (Hanyang University & Seoul, Korea (South)); Nabeela Kausar and Umer Iqbal (Riphah International University, Faisalabad, Pakistan); Choonhwa Lee (Hanyang University, Korea (South))
2E	Communication Networks and Future Internet Technologies I	1570749346	QoS Evaluation of Home Network with IEEE 802.1TSN	Taleb Ennouhe (Nagoya Institute Of Technology, Japan); Yoshihiro Ito (Nagoya Institute of Technology, Japan)

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
2E	Communication Networks and Future Internet Technologies I	1570754444	Root Cause Analysis of Data Integrity Errors in Networked Systems with Incomplete Information	Yufeng Xin (University of North Carolina, USA); Shih-Wen Fu (University of North Carolina at Chapel Hill, USA); Anirban Mandal (Renaissance Computing Institute (RENCI), USA); Ilya Baldin (RENCI/UNC Chapel Hill, USA); Ryan Tanaka and Mats Rynge (University of Southern California, USA); Karan Vahi (USC Information Sciences Institute, USA); Ewa Deelman (ISI, USC, USA); Ishan Abhinav and Von Welch (Indiana University, USA)
2E	Communication Networks and Future Internet Technologies I	1570754568	High-speed PAM-4 Signal Transmissions with Directly Modulated Lasers for the Next-Generation Passive Optical Networks	Ahmed Galib Reza and Marcos Troncoso Costas (Dublin City University, Ireland); Colm Browning (DCU, Ireland); Liam Barry (Dublin City University, Ireland)
2E	Communication Networks and Future Internet Technologies I	1570754214	Design and Implementation of Quantum Key Distribution Network Control and Management	Taesang Choi (Electronic and Telecommunications Research Institute, Korea (South)); Sangsik Yoon and Tae-Yeon Kim (ETRI, Korea (South)); HyungSoo Kim (Korea Telecom, Korea (South))
2E	Communication Networks and Future Internet Technologies I	1570755872	An Empirical Study on Root Cause Analysis and Prediction of Network Failure using Deep Learning	Minhwan Choi, Taeyoung Kim, Jongpil Lee and Seunghyun Koh (Korea Telecom, Korea (South))
2F	Communication Networks and Future Internet Technologies II	1570748539	Automatic Data Model Mapper for Security Policy Translation in Interface to Network Security Function Framework	Patrick Lingga (Sungkyunkwan University, Korea (South)); Jeonghyeon Kim (SungKyunKwan University, Korea (South)); Jorge David Iranzo Bartolome and Jaehoon Jeong (Sungkyunkwan University, Korea (South))
2F	Communication Networks and Future Internet Technologies II	1570749316	A Comparative Study on Centralized MAC Protocols for 60 GHz mmWave Communications	Pulok Tarafder, Moonsoo Kang and Wooyeol Choi (Chosun University, Korea (South))
2F	Communication Networks and Future Internet Technologies II	1570753484	Efficient multi-UAV Relay Nodes Placement Scheme in Wireless Networks	Hassen Redwan Hussen, Sungchan Choi, Jong-Hong Park and Il-Yeop Ahn (Korea Electronics Technology Institute, Korea (South))
2F	Communication Networks and Future Internet Technologies II	1570754392	On the Impact of Transceiver Impairments and Reflecting Elements for RIS-Aided Communications	Waqas Khalid (Korea University & Sejong, South Korea, Korea (South)); Heejung Yu (Korea University, Korea (South))
2F	Communication Networks and Future Internet Technologies II	1570754473	Deep Learning for Intelligent Reflecting Surfaces Aided MIMO Systems	WenBin Li (University of Soongsil, China); Yoan Shin (Soongsil University, Korea (South))
2F	Communication Networks and Future Internet Technologies II	1570746083	The Impact of Imperfect Orthogonality of LoRa Communication in Multiple Drone Identification	Jinhyung Oh (Electronics and Telecommunications Research Institute, Korea (South)); Dong-Woo Lim (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); Kyu-Min Kang (ETRI, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
3A	Wireless & Mobile Communication Systems I	1570739084	Deep Learning-based Secure Transmission for SWIPT System with Power-Splitting Scheme	Huynh Thien (University of Ulsan, Korea (South)); Pham Viet-Tuan (Hue University, Vietnam); Insoo Koo (University of Ulsan, Korea (South))
3A	Wireless & Mobile Communication Systems I	1570740723	Sensing weight selection using the genetic algorithm to enhance cooperative decision	Noor Gul (University of Peshawar & Korea Polytechnic University, Korea (South)); Saeed Ahmed (Mirpur University of Science and Technology, Pakistan); Najeeb Ullah (Northern University, Nowshera, Pakistan); Su Min Kim and Junsu Kim (Korea Polytechnic University, Korea (South))
3A	Wireless & Mobile Communication Systems I	1570753523	Fingerprint-based Cooperative Beam Selection for UAV communication	Huaping Liu (Oregon State University, USA); Hyeonsung Kim and Intae Hwang (Chonnam National University, Korea (South)); Sangmi Moon (Korea Nazarene University, Korea (South))
3A	Wireless & Mobile Communication Systems I	1570754018	Contactless Interconnect Circuit Design for Automotive CAN Communication	Seunghun Ryu (Korea Advanced Institute Science and Technology (KAIST), Korea (South)); Haerim Kim (Korea Advanced Institute of Science and Technology, Korea (South)); Jangyong Ahn (Korea Advanced Institute of Science and Technology (KAIST), Korea (South)); Seungyoung Ahn (Korea Advanced Institute of Science and Technology, Korea (South)); Jiseong Kim (Suwon Science College, Korea (South))
3A	Wireless & Mobile Communication Systems I	1570754739	Bi-directional Power and Trajectory Control for UAV-assisted Cellular System	Gil-Mo Kang, Hyeon Min Kim and Oh-Soon Shin (Soongsil University, Korea (South))
3B	Wireless & Mobile Communication Systems II	1570743560	A Study on Machine Learning-based Approaches for Reconfigurable Intelligent Surface	K M Faisal and Wooyeol Choi (Chosun University, Korea (South))
3B	Wireless & Mobile Communication Systems II	1570743414	Compact Multiple Wideband Slotted Circular Patch Antenna for Satellite and Millimeter-Wave Communications	Md. Moklesur Rahman and Heung-Gyoon Ryu (Chungbuk National University, Korea (South))
3B	Wireless & Mobile Communication Systems II	1570743714	On the Performance of Source Location Privacy Protocols under Varied Sensor Node Residual Energy	Lilian Mutalemwa and Seokjoo Shin (Chosun University, Korea (South))
3B	Wireless & Mobile Communication Systems II	1570748900	Path Loss Analysis for VANET in Tunnel Environment	Honghui Jin, Wen Wu and Chunxiao Li (Yangzhou University, China)
3B	Wireless & Mobile Communication Systems II	1570754274	Performance Analysis of Uplink NOMA based Full-Duplex UAV for Indoor Disaster Environment	Jung-Hwa Kang (University of Ajou, Korea (South)); Hisato Kashihara and Josaphat Tetuko Sri Sumantyo (Chiba University, Japan); Jae-Hyun Kim (Ajou University, South Korea, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
3B	Wireless & Mobile Communication Systems II	1570756667	Max-Min Fair Power Control and Coverage Probability for UAV-Assisted Cooperative and Cognitive NOMA	Sultangali Arzykulov (King Abdullah University of Science and Technology, Saudi Arabia); Abdulkadir Celik (King Abdullah University of Science & Technology, Saudi Arabia); Galymzhan Naurzybayev (Nazarbayev University, Kazakhstan); Ahmed M. Eltawil (King Abdullah University of Science and Technology, Saudi Arabia)
3C	Wireless & Mobile Communication Systems III	1570740602	Secure Voting Scheme for Cooperative Sensing	Noor Gul (University of Peshawar & Korea Polytechnic University, Korea (South)); Saeed Ahmed (Mirpur University of Science and Technology, Pakistan); Najeeb Ullah (Northern University, Nowshera, Pakistan); Su Min Kim and Junsu Kim (Korea Polytechnic University, Korea (South))
3C	Wireless & Mobile Communication Systems III	1570745202	A Low Power Gap-Filler Using ATSC 3.0 Transmission Chip for Mobile TV Broadcasting	Jae-Hwui Bae (Electronics and Telecommunications Research Institute, Korea (South))
3C	Wireless & Mobile Communication Systems III	1570749249	A Generalized Clutter Loss Model for Slant Path	Jong Ho Kim (ETRI, Korea (South)); Young-Keun Yoon (Electronics and Telecommunications Research Institute, Korea (South)); Jangsuk Choi and Kwangho Choi (RRA, Korea (South))
3C	Wireless & Mobile Communication Systems III	1570749292	A study on the effect of the adjacent channel interference between C-ITS systems	Ho Kyung Son and Young Jun Chong (ETRI, Korea (South))
3C	Wireless & Mobile Communication Systems III	1570754224	Design and Implementation of Kubernetes enabled Federated Learning Platform	Kim Jingyeom, DoYeon Kim and Lee JooHyung (Gachon University, Korea (South))
3C	Wireless & Mobile Communication Systems III	1570754540	Separation Distance Performances between Ingenu and Wi-Fi Systems with Concatenated FEC	Kentaro Yamamoto and Takatoshi Sugiyama (Kogakuin University, Japan)
3E	Internet of Things III	1570740674	Behavior-based Authentication using User Biological Data to IoT Device having Touchscreen	Lee Jiwoo and SoHyeon Park (Incheon National University, Korea (South)); Eun-Kyu Lee (Incheon National University & UCLA, USA)
3E	Internet of Things III	1570741462	Air Quality Measurement Device Using Programmable Quadcopter Drone Towards Internet of Drone Things	Nyoman Karna and Derial Lubna (Telkom University, Indonesia); Soo Young Shin (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
3E	Internet of Things III	1570754188	System for Multi Parameter Water Quality Monitoring Based on NB-IoT	Chang-Won Lee (ETRI, Korea (South)); Hoon Jeong (218 Gajeong-ro, Yuseong-gu, Korea (South) & ETRI Electronics and Telecommunications Research Institute, Korea (South)); Jae-Hong Ryu (ETRI, Korea (South)); Juderk Park (Electronics and Telecommunication Research Institute (ETRI), Korea (South)); Byeong-cheol Choi (Electronics and Telecommunications Research Institute, Korea (South))
3E	Internet of Things III	1570754640	Vibration Sensor-Based Fall Detection in Smart Factory Shop Floor	Mareska Pratiwi Maharani, Adinda Riztia Putri, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
3E	Internet of Things III	1570754695	Comparison of Wristband Type Devices to Measure Heart Rate Variability for Mental Stress Assessment	Minjung Kim, Jungsook Kim and Kyonghyun Park (ETRI, Korea (South)); Hyunsuk Kim (Electronics and Telecommunications Research Institute & Emotion Recognition IoT Research Section, Korea (South)); Daesub Yoon (Electronics and Telecommunications Research Institute, Korea (South))
3F	SDN and Network Virtualization	1570738694	AI-based Resource Prediction in Network Function Virtualization Architectures	Vincenzo Eramo (University of Rome "La Sapienza", Italy); Francesco Valente (Sapienza University of Rome, Italy); Francesco Giacinto Lavacca (Fondazione Ugo Bordoni, Italy); Tiziana Catena (University of Roma Sapienza, Italy)
3F	SDN and Network Virtualization	1570740560	A SDN-Based Heterogeneous Networking Scheme for Profinet and Modbus Networks	Heng Wang, Anhua Deng and Chenghao Hu (Chongqing University of Posts and Telecommunications, China)
3F	SDN and Network Virtualization	1570740635	A Game Theoretic Bandwidth Allocation Scheme towards Improving the Fairness of XG-PON Systems	Damanjeet Kaur (Indira Gandhi Delhi Technical University for Women, India); Garima Gupta (Indira Gandhi Delhi Technical University For Women, India); Vivekanand Jha (Indira Gandhi Delhi Technical University for Women, India)
3F	SDN and Network Virtualization	1570742575	An rate adjustment algorithm for scalable URLLC in beyond 5G networks	Chanho Yoon and Seokki Kim (ETRI, Korea (South)); Nurul Huda Mahmood and Irfan Muhammad (University of Oulu, Finland); Gweondo Jo (ETRI, Korea (South)); Young-Jo Ko (Electronics and Telecommunications Research Institute, Korea (South))
3F	SDN and Network Virtualization	1570746569	Early Termination Scheme for 5G NR LDPC Code	Nam-il Kim and Jin-Up Kim (ETRI, Korea (South))
3F	SDN and Network Virtualization	1570749523	Predicting the Bandwidth Requests in XG-PON System using Ensemble Learning	Garima Gupta (Indira Gandhi Delhi Technical University For Women, India); Anamika Rai and Vivekanand Jha (Indira Gandhi Delhi Technical University for Women, India)
4A	Internet of Things I	1570733667	Sound-based anomaly detection using a locally constrained capsule network	Nacwoo Kim, HyunYong Lee, Jungi Lee and Byung Tak Lee (ETRI, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
4A	Internet of Things I	1570737225	A Deep Learning Model for LoRa Signals Classification Using Cyclostationary Features	Abdullateef Almohamad and Mazen Omar Hasna (Qatar University, Qatar); Saud Althunibat (Al-Hussein Bin Talal University, Jordan); Kürşat Tekbilyik (Istanbul Technical University, Turkey); Khalid A. Qaraqe (Texas A&M University at Qatar, USA)
4A	Internet of Things I	1570740222	Towards Context-Aware Smart Contracts for Blockchain IoT Systems	Lovemore Ngwira and Mpyana Mwamba Merlec (Korea University, Korea (South)); Youn Kyu Lee (Hongik University, Korea (South)); Hoh Peter In (Korea University, Korea (South))
4A	Internet of Things I	1570749306	Deterministic Scheduling Methods with Conflict Degree and Proportional Deadline in Industrial Wireless Sensor Networks	Heng Wang, Jingqi Yang and Jianglin Hu (Chongqing University of Posts and Telecommunications, China)
4A	Internet of Things I	1570753912	Selective Beam Switching System for Wireless Sensor Network Communication	Toufiq Aziz and Heung-Gyoon Ryu (Chungbuk National University, Korea (South))
4A	Internet of Things I	1570754451	IoT Statistic and Analytics of Networking Traffic Data using AWS IoT Cloud Core	Quoc Trung Khuong (Rochester Institute of Technology, USA); Tae (Tom) H Oh (Rochester Institute of Technology, USA)
4E	Applications for ICT Convergence I	1570748258	Abnormal Situation Detection using Global Surveillance Map	Ho Chul Shin (Electronics and Telecommunication Research Institute, Korea (South)); Kiin Na (ETRI, Korea (South))
4E	Applications for ICT Convergence I	1570748803	Polar Codes for Fast Converging Belief-Propagation Decoding	Seokju Han (Korea Advanced Institute of Science and Technology (KAIST), Korea (South)); Jeongseok Ha (KAIST, Korea (South))
4E	Applications for ICT Convergence I	1570749945	CAC: Content-Aware Captioning for Professional Online Lectures in Korean Language	Yoonha Bahng, Yunjung Lee and Jeongyeup Paek (Chung-Ang University, Korea (South))
4E	Applications for ICT Convergence I	1570753286	A Generalized Approach For Practical Task Allocation Using A MAPE-K Control Loop	Reinout Eyckerman (University of Antwerp, Belgium); Philippe Reiter (University of Antwerp & IMEC-IDLab Antwerpen, Belgium); Siegfried Mercelis and Steven Latré (University of Antwerp - imec, Belgium); Johann M. Marquez-Barja (University of Antwerpen & imec, Belgium); Peter Hellinckx (University of Antwerp - imec, Belgium)
4E	Applications for ICT Convergence I	1570754145	An Analysis of the Digital Transformation Trends in ASEAN-5 after Covid-19 Pandemic	Eun Hye Yi and Ilsue Roh (Electronics and Telecommunications Research Institute, Korea (South))
4E	Applications for ICT Convergence I	1570754155	Scheme for Mitigating the Interference by Violation of Indoor-only Operation in the 6 GHz Band	Jungsun Um, Igor Kim and Bongsu Kim (ETRI, Korea (South)); Seung Keun Park (Electronics and Telecommunications Research Institute, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
4F	Applications for ICT Convergence II	1570746262	Phase-based predicting the battery remaining time for Android mobile devices	Seung-Ryeol Ohk, Seok Min Hong and Young-Jin Kim (Ajou University, Korea (South))
4F	Applications for ICT Convergence II	1570749665	Evaluation of Azalea on many-core test bed system	Yeonjeong Jeong (Electronics and Telecommunications Research Institute, Korea (South)); Jinmee Kim and Seung Hyub Jeon (ETRI, Korea (South)); Seung-Jun Cha and Sung-In Jung (Electronics and Telecommunications Research Institute, Korea (South))
4F	Applications for ICT Convergence II	1570754189	A Study on the Necessity of Multi-Factor Design for Predicting Safety of Shipyard Workers	Yoonsook Hwang (Intelligent Robotics Research Division, ETRI, Korea (South)); Woo-Sung Jung (ETRI, Korea (South)); Daeseung Yoo (Electronics and Telecommunications Research Institute, Korea (South))
4F	Applications for ICT Convergence II	1570754446	Simulation-based Study of LPI Interference on Fixed Microwave links in 6GHz Band	Igor Kim and Jungsun Um (ETRI, Korea (South)); Seung Keun Park (Electronics and Telecommunications Research Institute, Korea (South))
4F	Applications for ICT Convergence II	1570754714	A Statistical Approach for Assessing Time-to-First-Fix Performance of Global Navigation Satellite Systems	Jung-Bin Kim (ETRI - Electronics & Telecommunications Research Institute, Korea (South)); Hyoungsoo Lim (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); Sanguk Lee and JoonGyu Ryu (ETRI, Korea (South))
5A	Big Data and Smart Computing	1570732473	An Approach for Utilizing Correlation among Sensors for Unsupervised Anomaly Detection of Wind Turbine System	HyunYong Lee, Nacwoo Kim, Jungi Lee and Byung Tak Lee (ETRI, Korea (South))
5A	Big Data and Smart Computing	1570736881	Smart-mDAG: An Intelligent Scheduling Method for Multi-DAG Jobs	Yifan Zhu and Bo HU (Beijing University of Posts and Telecommunications, China)
5A	Big Data and Smart Computing	1570740656	Optimizing the location of products in a warehouse using genetic algorithms	Won Yong Ha, Ki-yang Cho, Chung Sik Han and Jun Lyeu Cho (Ministry of National Defense, Korea (South)); Ho Jun Lee (University of Twente, Korea (South))
5A	Big Data and Smart Computing	1570740708	BPTE: Bitcoin Price Prediction and Trend Examination using Twitter Sentiment Analysis	Muhammad K. Shahzad, Laiba Bukhari and Tayyeba Muhammad Khan (National University of Sciences & Technology (NUST), Pakistan); S. M. Riazul Islam (Sejong University, Korea (South)); Mahmud Hossain (University of Alabama at Birmingham, USA); Kyung Sup Kwak (Inha University, Korea (South))
5A	Big Data and Smart Computing	1570742515	ETRI Extended Memory Pool System Architecture using Gen-Z Protocol	Wonok Kwon (ETRI, Korea (South))
5C	Internet of Things II	1570745875	Experiment on Threshold in Ambient Backscatter Communication with Amplitude Modulation	Jae-Han Lim (University of California, Los Angeles, USA & Kwangwoon University, Korea (South)); Kim Dong Gyun (University of Kwangwoon, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
5C	Internet of Things II	1570748306	A Feasibility Study of An Intelligent Environmental Monitoring System Based On The Ethereum Blockchains	Yiyang Cheng and Kazu Takashio (Keio University, Japan)
5C	Internet of Things II	1570749887	Real-Time Monitoring of COVID-19 Vaccination Compliance: A Ubiquitous IT Convergence Approach	Simeon Ajakwe (Kumoh National Institute of Technology, Gumi, Korea (South)); Rubina Akter (Kumoh National Institute of Technology & Networked Systems Laboratory, Korea (South)); Love Allen Ahakonye, Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, Korea (South))
5C	Internet of Things II	1570754012	Unlicensed-band Single-hop LPWA Repeater for Smart-city IoT Applications	Eun-Hee Kim (Electronics and Telecommunications Research Institute, Korea (South)); Kyeseon Lee and TaeJoon Park (ETRI, Korea (South)); Hae-Won Son (Chonbuk National University, Korea (South))
5C	Internet of Things II	1570754200	Endorsement Policy for Industrial Internet of Thing with Private Blockchain	Yunseong Lee, Donghyun Lee and Junsuk Oh (Chung-Ang University, Korea (South)); Laihyuk Park (Seoul National University of Science and Technology, Korea (South)); Woongsoo Na (Kongju National University, Korea (South)); Sungrae Cho (Chung-Ang University, Korea (South))
5C	Internet of Things II	1570757565	MERLIN: Smart Framework for Agriculture in India	Arunima Sharma (Malaviya National Institute of Technology Jaipur, India)
5F	ICT Services	1570739428	A Service Management Method for Distributed Deep Learning	Seung Woo Kum (Korea Electronics Technology Institute, Korea (South)); Seungtaek Oh and Jaewon Moon (Korea Electronics Technology Institute, Korea (South))
5F	ICT Services	1570741485	Waypoint: Online Semi-automatic Vehicle Occupancy Data Collection System	John Philip Ortiz Chanchico (University of the Philippines, Philippines); Patric Charles M. Garcia (University of the Philippines - Diliman, Philippines); Wilson Tan (University of the Philippines, Philippines)
5F	ICT Services	1570748167	Effect of Mechanical (Dry and Wet) Pollination of Date Palms on Cultivar Naghal in the Sultanate of Oman	Rehna V J (University of Technology and Applied Sciences - Ibri & Lincoln University College, Oman); Mukil Alagirisamy (University Malaya & Lincoln University College, Malaysia)
5F	ICT Services	1570749769	Design Proposal for a Novel Automated Smart System to Curb Mishaps due to Unfocussed Driving	Abid Siddique and Mohammed Gousuddin (Lincoln University College, Malaysia); Rehna V J (University of Technology and Applied Sciences - Ibri & Lincoln University College, Oman)
5F	ICT Services	1570754590	An IoT based parking recommendation system considering distance and parking lot flow	Tzu-Chieh Tsai and Yuan Chen (National Chengchi University, Taiwan)

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
5F	ICT Services	1570754763	On Performance of multi-hop assisted mMTC for DECT-2020 New Radio System	Sandhya Soni (LNMIIT, India); Rahul Makkar (The LNM Institute of Information Technology & Rupa Ki Nangal, Post-Sumel, Via-Jamdoli, India); Tanmay Singhwi (The LNMIIT, India); Divyang Rawal (LNMIIT, India); Nikhil Sharma (The LNM Institute of Information Technology, Jaipur, India); Laxmikant Minz (KAIST, Korea (South))
6A	Mobile Cloud Computing & Communication Systems and Applications	1570738669	Greedy-Based Edge Collaboration Scheme for Improving Quality of Experience	Jlno Park and Kwangsue Chung (Kwangwoon University, Korea (South))
6A	Mobile Cloud Computing & Communication Systems and Applications	1570748860	A QoE-based Optimization Approach to Computation Offloading in Vehicle-assisted Multi-access Edge Computing	Qui Pham, Thien Huynh-The and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
6A	Mobile Cloud Computing & Communication Systems and Applications	1570750036	Neural Architecture Search for Computation Offloading of DNNs from Mobile Devices to the Edge Server	Kyungchae Lee (Korea Advanced Institute of Science and Technology, Korea (South)); Linh Vu Le (Korea Advanced Institution of Science and Technology, Korea (South)); Heejae Kim (KAIST, Korea (South)); Chan-Hyun Youn (Korea Advanced Institute of Science and Technology, Korea (South))
6A	Mobile Cloud Computing & Communication Systems and Applications	1570750537	A method to integrate heterogeneous time-series data with a specific description frequency	Jaewon Moon and Seungtaek Oh (Korea Electronics Technology Institute, Korea (South)); Seung Woo Kum (Korea Electronics Technology Institute, Korea (South))
6A	Mobile Cloud Computing & Communication Systems and Applications	1570754172	Kubernetes-based DL Offloading Framework for Optimizing GPU Utilization in Edge Computing	Chorwon Kim, Ryangsoo Kim, Geun-Yong Kim and Sungchang Kim (ETRI, Korea (South))
6A	Mobile Cloud Computing & Communication Systems and Applications	1570754768	TRUMP: Trace Revisitation for User Mobility Prediction	Seungyeol Lee (ETRI, Korea (South))
7A	Encryption and Security for ICT Convergence	1570736003	Blockchain-based Personal Data Trading System using Decentralized Identifiers and Verifiable Credentials	Daeyeon Yoon and Sung-Jin Moon (ETRI, Korea (South)); KiSung Park (Electronics and Telecommunications Research Institute, Korea (South)); SungKee Noh (ETRI, Korea (South))
7A	Encryption and Security for ICT Convergence	1570740187	Enhanced security computational double random phase encryption by using additional random function	Kazuaki Honda, Jaehoon Lee and Hyun-Woo Kim (Kyushu Institute of Technology, Japan); Myungjin Cho (Hankyong National University, Korea (South)); Min-Chul Lee (Kyushu Institute of Technology, Japan)

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
7A	Encryption and Security for ICT Convergence	1570754454	Wi-SUN Device Authentication using Physical Layer Fingerprint	Mi-kyung Oh (ETRI, Korea (South)); Sangjae Lee (ETRI, KOREA, Korea (South)); Yousung Kang (ETRI, Korea (South))
7A	Encryption and Security for ICT Convergence	1570754532	A Secret Sharing Scheme to Reduce the Total Data Size	Kuniaki Tsuji, Shiden Kishimoto, Yuya Tarutani, Yukinobu Fukushima and Tokumi Yokohira (Okayama University, Japan)
7F	Indoor Positioning and Navigation Systems	1570741127	GPS Pseudo Range Correction by the Number of Reflections and Incident Angle Estimations	Koichi Saito (University of Kogakuin, Japan); Takatoshi Sugiyama (Kogakuin University, Japan)
7F	Indoor Positioning and Navigation Systems	1570749092	Low-complexity Neighborhood-based Weighted Centroid Localization for Secondary Users in Cognitive Radio Network	Narayan Nath (Chongqing University of Posts and Telecommunications, Bangladesh); Xiaowei Liang (Chongqing University of Posts and Telecommunications, China); Bin Shen (Chongqing University of Posts and Telecommunications (CQUPT), China)
7F	Indoor Positioning and Navigation Systems	1570749291	Cost Reduction in Fingerprint-Based Indoor Localization using Generative Adversarial Network	Changsung Lim and Jeongyeup Paek (Chung-Ang University, Korea (South))
7F	Indoor Positioning and Navigation Systems	1570750078	Calculated Distance Error Performances According to Actual GPS Measurements in Relay Type GPS	Kouhei Yoshida and Takatoshi Sugiyama (Kogakuin University, Japan)
7F	Indoor Positioning and Navigation Systems	1570752862	Learning based Wi-Fi RTT Range Estimation	Boo-Geum Jung (ETRI, Korea (South)); Byung Chang Chung (Gyeongsang National University, Korea (South)); Jinhyuk Yim (ETRI, Korea (South)); Yoon-Sik Yoo (Electronics and Telecommunications Research Institute, Korea (South)); HeaSook Park (ETRI, Korea (South))
7F	Indoor Positioning and Navigation Systems	1570754195	A Deep Learning Approach for Robust Target Tracking in a Cluttered Environment	Jaek Baek (ETRI, Korea (South)); SungHo Lee (Seoul National University of Science&Technology, Korea (South)); Chang Eun Lee and Sangjoon Park (ETRI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570737218	Performance-related Internal Clustering Validation Index for Clustering-based Anomaly Detection	HyunYong Lee, Nacwoo Kim, Jungi Lee and Byung Tak Lee (ETRI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570737996	Multi-modal, Multi-task and Multi-label for Music Genre Classification and Emotion Regression	Yagya Raj Pandeya (Jeonbuk National University, Jeonju, South Korea & Guru Technologies, Korea (South)); Jie You (Jeonbuk National University); Bhuwan Bhattarai (Jeonbuk National University, Korea (South)); Joon Whoan Lee (Jeonbuk National University)

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8A	Artificial Intelligence and Machine Learning	1570740164	Personalized Federated Learning with Clustering: Non-IID Heart Rate Variability Data Application	Joo Hun Yoo, Ha Min Son and Hyejun Jeong (Sungkyunkwan University, Korea (South)); Eun-Hye Jang, Ah Young Kim and Han Young Yu (Electronics and Telecommunications Research Institute, Korea (South)); Hong Jin Jeon (Samsung Medical Center, Korea (South)); TaiMyoung Chung (SungkyunKwang University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570740672	The Precision SOC Estimation Method of LiB for EV Applications Using ANN	Ga-Eun Jung (KERI, Korea (South)); JiKook Baek (IES Co. LTD., Korea (South)); Jianyong Liu (IES Co., Ltd., Korea (South)); Van Quan Dao, Minh-Chau Dinh and Chang Soon Kim (Changwon National University, Korea (South)); Myung-Kwan Lee (Battery Solution Co., Ltd., Korea (South)); JungHyo Bae (Korea Electrotechnology Research Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570740715	A Framework for Adaptive Deep Reinforcement Semantic Parsing of Unstructured Data	Shubham Jain (Athlone Institute Of Technology & Ericsson, Ireland); Enda Fallon (Athlone Institute of Technology, Ireland); Amy Amy de Buitléir (Ericsson, Ireland)
Poster 8A	Artificial Intelligence and Machine Learning	1570740762	Image-based Sleep Stage Classification Model for Multi-Institutional Dataset	Yunhee Woo (HALLYM University, Korea (South)); DongYoung Kim (Hallym Univ, Korea (South)); Jaemin Jeong, Dong-Kyu Kim and Jeong-Gun Lee (Hallym University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570741304	Enhancing the Data Regularization Effect with Randomly Combined Features for Object Detection	Jiyeon Kim (University of Science and Technology, Korea (South)); Yong-Ju Lee (ETRI, Korea (South)); Yong-Hyuk Moon (Electronics and Telecommunications Research Institute (ETRI) & University of Science and Technology (UST), Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570743416	Machine Learning-Based Channel Prediction Exploiting Frequency Correlation in Massive MIMO Wideband Systems	Beomsoo Ko (Korea Advanced Institute of Science and Technology (KAIST), Korea (South)); Hwanjin Kim and Junil Choi (KAIST, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570745168	Feature Vector Extraction Technique for Facial Emotion Recognition Using Facial Landmarks	Alwin Poullose (Kyungpook National University, Korea (South)); Jung Hwan Kim (KyungPook National University, Korea (South)); Dong Seog Han (Kyungpook National University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570748252	Does Identity Mapping Really Help in ResNet?	Yoo-Kyung Lee and Dong-Hwan Lee (University of Science and Technology, Korea (South)); Jae-Hun Choi, Jang-Hee Yoo and Seung-Ik Lee (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570748562	Lightweight Monocular Depth Estimation Based On Perceptual Loss and Network Slimming	Seungjae Lee and Yongsik Lee (ETRI, Korea (South)); Suwoong Lee (Electronics and Telecommunications Research Institute, Korea (South)); Jong Gook Ko (ETRI, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8A	Artificial Intelligence and Machine Learning	1570748594	Domain-Robust Pedestrian-View Intersection Classification	Marcella Astrid and Muhammad Zaigham Zaheer (University of Science and Technology, Korea (South)); Jae-Yeong Lee and Seung-Ik Lee (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570748942	Fast Anomaly Detection Model based on Long Sequences for Energy Storage System	Hong-Soon Nam (ETRI, Korea (South)); Jongwon Park (Chungnam National University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749168	Dynamic graph neural network for super-pixel image classification	Linh Vu Le (Korea Advanced Institution of Science and Technology, Korea (South)); Chan-Hyun Youn (Korea Advanced Institute of Science and Technology, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749297	Arrhythmia Detection Using Convolutional Neural Networks with Temporal Attention Mechanism	Muhammad Zubair (Korea University of Science and Technology & Electronics and Telecommunication Research Institute, Korea (South)); Sungpil Woo and Sunhwan Lim (ETRI, Korea (South)); Chan-Won Park (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749308	A Study on Online ARIMA Algorithms applying various gradient descent optimization algorithms for Time Series Prediction	Jungi Lee, HyunYong Lee, Nacwoo Kim and Byung Tak Lee (ETRI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749325	Facial Micro-Expression Recognition in Video using Squeezed Landmark Feature Maps	Nayeon Kim (University of Science and Technology, Korea (South)); Sukhee Cho (ETRI, Korea (South)); Chung Hyun Ahn (Electronics and Telecommunication Research Institute, Korea (South)); Byungjun Bae (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749458	A Weight-Sharing Autoencoder with Dynamic Quantization for Efficient Feature Compression	Ji Sub Choi, Jungrae Kim and Jong Hwan Ko (Sungkyunkwan University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749648	A Study on American Football Player Tracking based on Video through deep learning and GPS convergence	Jung Soo Lee and SungWon Moon (ETRI, Korea (South)); Jiwon Lee (Electronics and Telecommunications Research Institute, Korea (South)); Ah Reum Oh (ETRI, South Korea, Korea (South)); Do-Won Nam and Wonyoung Yoo (ETRI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749728	Pixel-based Continuous State Prediction with Perceptual Loss	Donghun Lee (Electronics and Telecommunications Research Institute, Korea (South)); Jun Hee Park (ETRI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749776	Reusing Agent's Representations for Adaptation to Tuned-environment in Fighting Game	Dae-Wook Kim (Electronics and Telecommunications Research Institute, Korea (South)); Sung-Yun Park (University of Science & Technology & Electronics and Telecommunications Research Institute, Korea (South)); Seong-Il Yang (Electronics and Telecommunications Research Institute, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8A	Artificial Intelligence and Machine Learning	1570749817	Per-frame Sign Language Gloss Recognition	Chang Jo Kim and Han-Mu Park (Korea Electronics Technology Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749823	GaN/Si 60nm 1W High Power 80GHz Power Amplifier	Ji-Hye Hwang (Korea Electronics Technology Institute & KETI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749825	GaN/SiC 150nm 3W High Linearity 28GHz Power Amplifier	Ji-Hye Hwang (Korea Electronics Technology Institute & KETI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570749895	A study on fire prediction method using air quality measurement sensors of smart indoor parking lot	Eunjoo Kim, Woongshik You and Cheol Sig Pyo (ETRI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570750011	OSTGazeNet: One-stage Trainable 2D Gaze Estimation Network	Heeyoung Joo, Min-Soo Ko and Hyok Song (Korea Electronics Technology Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570750058	A Fast 4K Video Frame Interpolation based on StepWise Optical Flow Computation and Video Spatial Interpolation	Jinwoo Jeong (Korea Electronics Technology Institute, Korea (South)); Minsoo Hong (KETI, Korea (South)); JeWoo Kim (Korea Electronic Technology Institute (KETI), Korea (South)); Sungjei Kim (Korea Electronics Technology Institute, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570752562	Error Distribution-based Anomaly Score for Forecasting-based Anomaly Detection of PV Systems	HyunYong Lee, Nacwoo Kim, Jungi Lee and Byung Tak Lee (ETRI, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570754225	An Incremental Learning for Plant Disease classification	Bhuwan Bhattarai (Jeonbuk National University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570754333	A Review on Collision Avoidance Systems for Unmanned Aerial Vehicles	Kelvin Dushime, JaeSeung Song and Lewis Nkenyereye (Sejong University, Korea (South)); Seong Ki Yoo (Coventry University, United Kingdom (Great Britain))
Poster 8A	Artificial Intelligence and Machine Learning	1570754558	A Comparative Analysis of Methods Based on Semantic Segmentation for Cloud Detection in Remote Sensing Imagery	Ji Hyeon Yim (Korea Aerospace Research Institute, Korea (South)); Min-a Kim, Ku-hyeok Kim, Jaeyeol Lee, MyungShin Lee and DaeWon Chung (KARI, Korea (South)); Kyeongmi Jeon (SIIS, Korea (South)); Jamyoung Koo (SIA, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570754565	Content Caching in HAP-assisted Multi-UAV Networks Using Hierarchical Federated Learning	Arooj Masood (Chung-Ang University, Korea (South)); The-Vi Nguyen (Chung-Ang University, Seoul, Republic of Korea, Korea (South)); Thanh Phung Truong and Sungrae Cho (Chung-Ang University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570754605	Sequential Deep Learning Architectures for Anomaly Detection in Virtual Network Function Chains	Chungjun Lee (Handong Global University, Korea (South)); Jibum Hong (Pohang University of Science and Technology, Korea (South)); Dongnyeong Heo and Heeyoul Choi (Handong Global University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570754710	Dual-Encoding Style Transfer for Korean Font Generation	Daigeun Lee (Sejong University, Korea (South)); Jin Tae Kwak (Korea University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570754720	Few-shot modulation recognition using Recurrence Plot Algorithm	Woojin Yun, Jiyeon Park, Hyeongyun Kim and Haewoon Nam (Hanyang University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8A	Artificial Intelligence and Machine Learning	1570754732	UAV Detection Using Split-Parallel CNN For Surveillance Systems	Ali Aouto, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570754758	Acceleration of DNN-Based Video Object Detection Using Temporal Dependency of the Object Size	JeongYeop Yoo (SungKyunkwan University, Korea (South)); Jong Hwan Ko (Sungkyunkwan University, Korea (South))
Poster 8A	Artificial Intelligence and Machine Learning	1570756438	Triad of Split Learning: Privacy, Accuracy, and Performance	Dongho Lee, Jaeseo Lee, Jun Hyunsung, Kim HongDeok and Seehwan Yoo (Dankook University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753565	Optical wireless power path configuration based on DS-OCDMA technique	Gunzung Kim, Jeongsook Eom and YongWan Park (Yeungnam University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754053	Design of Task Allocation Algorithm for Simulating Warehouse Logistics Scenarios	YouHee Choi (ETRI, Korea (South)); Wonpil Yu (Korea (South))
Poster 8B	Applications for ICT Convergence	1570752075	Multiple PUF-based lightweight authentication method in the IoT	Seungyong Yoon (ETRI, Korea (South)); Byoungkoo Kim (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); Yousung Kang (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570740155	Analysis of Coexistence between Unmanned Aerial Vehicles and Wireless Devices below 1GHz	Suna Choi (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570740820	WebRTC-based real-time non-face-to-face visual assistance system design and research for the visually impaired using glasses-type assistive devices	Incheol Jeong, Kapyol Kim, Jongwon Lee and Mukhriddin Nuriddin ugli Mukhiddinov (Gachon University, Korea (South)); Abdinabi Nuralievich Mukhamadiyev (Gachon University, Uzbekistan); Jinsoo Cho (Gachon University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570741793	Feature Correlation-based Data Fusion using Dempster-Shafer Evidence Theory for WSN	Ihsan Ullah, Hyun-Kyo Lim and Youn-Hee Han (Korea University of Technology and Education, Korea (South))
Poster 8B	Applications for ICT Convergence	1570743008	A HashChain-based Partial Matching Embedded Manifest for NDN	Sae Hyong Park (Electronics and Telecommunications Research Institute, Korea (South)); YongYoon Shin and Namseok Ko (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570744282	Generation method of a drone map using VWorld	HeyonJoong Wi (University of Science and Technology, Korea (South)); Insung Jang and Ahyun Lee (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570746237	Study on Laser-Powered Aerial Vehicle: Prolong Flying Time Using 976nm Laser Source	Youngchan Lim, Youngwon Choi and Jihoon Ryoo (SUNY Korea, Korea (South))
Poster 8B	Applications for ICT Convergence	1570746292	Concurrent firing LIDAR for self-driving car	Jeongsook Eom, Gunzung Kim and YongWan Park (Yeungnam University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8B	Applications for ICT Convergence	1570746486	A Study on the Improvement of Fine-grained Ship Classification through Data Augmentation Using Generative Adversarial Networks	SungWon Moon (ETRI, Korea (South)); Jiwon Lee (Electronics and Telecommunications Research Institute, Korea (South)); Jung Soo Lee (ETRI, Korea (South)); Ah Reum Oh (ETRI, South Korea, Korea (South)); Do-Won Nam and Wonyoung Yoo (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570748928	The development and verification of a similar crimes search system in Korean	Wonjoo Park (ETRI, Korea (South)); Kwangho Jang (Police Science Institute, Korea (South)); Myung-Sun Baek (ETRI, Korea (South)); Yong-Tae Lee (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570748991	Design and Evaluation of Exercise Management Application for Patients with Parkinsonism	Su Ji Chae and Kyudong Park (Kwangwoon University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570749012	Heuristic Evaluation for Augmentative and Alternative Communication Application: A Case Study	BeomYoung Jeong (KwangWoon University, Korea (South)); Seungman Choi (Sovoro Inc., Korea (South)); Kyudong Park (Kwangwoon University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570749262	Network Anomaly Detection based on GAN with Scaling Properties	Hyun Jin Kim (Electronics and Telecommunications Research Institute, Korea (South)); Jonghoon Lee (ETRI, Korea (South)); Cheolhee Park and Jong-Geun Park (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570749303	New communication methods using information tone channels in synchronous wireless distributed communication systems	Hyungu Hwang (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); Jaemin Ahn (Chungnam National University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570749532	Implementation of CSMA-CA state diagram for swarm drone network	Gwonhan Mun (Electronics and Telecommunications Research Institute, Korea (South)); Daeho Kim (Korea (South)); Hee Wook Kim (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570749646	Fleet-sizing of Autonomous Vehicles based on Queueing Modeling for Transportation Service in Tourist Spot	Lae Yeop Lee and Won Seok Choi (Chungbuk National University, Korea (South)); Seong Gon Choi (Chungbuk University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570749670	The analysis of UAV detection performance using rotating cameras	Young-il Kim and Kunmin Yeo (Electronics and Telecommunications Research Institute, Korea (South)); Seong Hee Park (ETRI, Korea (South)); Wun-cheol Jeong (ETRI & University of Science & Technology, Korea (South)); Soonyong Song and Tae-Wook Heo (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570749856	Energy Consumption Location-Based QoS Routing Protocol for Vehicular Ad-Hoc Networks	Yushintia Pramitarini, Thong Nhat Tran and Beongku An (Hongik University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8B	Applications for ICT Convergence	1570751818	Log-domain Decoding of Nonbinary Polar Codes	Giyeon Park, Ok-Sun Park and Gweondo Jo (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753220	Automatic Network QoS Control Framework for a Small Network	Jeehyeong Kim, Sohyun Kim, Won Gi Choi, Min-Hwan Song and Sang-Shin Lee (Korea Electronics Technology Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753222	In-memory storage based real-time data pipeline for Transportation Equipment in Port	Won Gi Choi, Seolyeong Park, Jeehyeong Kim, Min-Hwan Song and Sang-Shin Lee (Korea Electronics Technology Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753293	A Study on Augmented Reality-based Virtual Pets for the Elderly Living Alone	Myeon-gyun Cho (Semyung University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753331	Seamless CAN: CAN Bus plus High-availability Seamless Redundancy	Jong Rhee, Ibraheem Abdulsalam, Duc N. M. Hoang, Dong Hwan Kim, Jin Seok Yang and Sang Yoon Park (Myongji University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753470	Design and Evaluation of Container-based Networking for Low-latency Edge Services	Jae-Geun Cha (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753476	A PoC Service of Intelligent Device in the Smart City: Human Detection	Hyunhak Kim (ETRI, Korea (South)); Dong-Hwan Park (Electronics and Telecommunications Research Institute, Korea (South)); Young-Ho Suh and TaeJoon Park (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753511	Crack Minimization Between Adjacent 3D Terrain Model Tiles for Planetary-Scale Geospatial Platforms	Ahyun Lee and Insung Jang (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753799	Mental stress assessment using SVM with physiological sensor data	Jungsook Kim, Minjung Kim and Kyonghyun Park (ETRI, Korea (South)); Hyunsuk Kim (Electronics and Telecommunications Research Institute & Emotion Recognition IoT Research Section, Korea (South))
Poster 8B	Applications for ICT Convergence	1570753902	Device Independent YANG Auto-generation Mechanism	PyungKoo Park (ETRI, Korea (South)); Taeheum Na (Electronics and Telecommunications Research Institute, Korea (South)); Tae-Yeon Kim (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754156	Pretrained network-based sound event recognition for audio surveillance applications	Su-Wan Park (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754181	Adaptive Power Quality Monitoring Data Aggregation Method in the Shipyard Environment	Woo-Sung Jung and Tae Hyun Yoon (ETRI, Korea (South)); Daeseung Yoo (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754182	Artificial Intelligence-Enabled Data Value Curation on AI-Data Commons	Boyun Eom, Sunhwan Lim, Young-Ho Suh and Sungpil Woo (ETRI, Korea (South)); Dong-Hwan Park and Chan-Won Park (Electronics and Telecommunications Research Institute, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8B	Applications for ICT Convergence	1570754227	A Study on Quality Prediction Failure Cause Analysis in Batch Process	Hyejin S. Kim (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754229	Enabler Development Infrastructure Design for Hyper-connected Common Networking Services	Byeongok Kwak (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754321	CNN-Based Modulation Classification for OFDM Signal	Geonho Song, Mingyu Jang and Dongweon Yoon (Hanyang University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754369	A Study on Visualization of Spatial Information using Drone Images	Sangsu Kim, Min-Hyeok Kim and Jung-Hoon Kim (ICTWAY, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754549	Adaptive Beamforming Design for Angular Dynamics in High-Speed Mobility	Ha-Lim Song and Young-Chai Ko (Korea University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570754602	A Design of MANO System for Cloud Native Infrastructure	Jangwon Lee and younghan Kim (Soongsil University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570755405	A Sequential Update Algorithm with Parallel Processing for Deep Learning-Based Beamforming in Real Environments	Sung-Wook Yoon and Oh-Wook Kwon (Chungbuk National University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570755745	Transform-based Lossy Compression for HPC Big Datasets	Aekyung Moon (ETRI, Korea (South))
Poster 8B	Applications for ICT Convergence	1570755940	Vehicle Anti-collision Warning System Based on V2V Communication Technology	Shu-Zhi Liu and Seung-Hoon Hwang (Dongguk University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570756515	On the Performance of SC-Flip and SC-Perturbation Decoders for Parallel Decoding of Polar Codes	Jisang Park and Hyosang Ju (Sungkyunkwan University, Korea (South)); Chanho Yoon (ETRI, Korea (South)); Woncheol Cho (Electronics and Telecommunications Research Institute, Korea (South)); Sang-Hyo Kim (Sungkyunkwan University, Korea (South))
Poster 8B	Applications for ICT Convergence	1570756520	Circuit depth reduction algorithm for QUBO and Ising models in gate-model quantum computers	Kyungtaek Jun (IQCT Inc., Korea (South)); Hyunju Lee (IQCT, Korea (South)); Sun Woo Park (National Institute for Mathematical Sciences, Korea (South)); Byung Chun Kim (IQCT, Korea (South)); Youngho Woo (National Institute for Mathematical Sciences, Korea (South))
Poster 8B	Applications for ICT Convergence	1570756583	On the application of matrix congruence to QUBO formulations for systems of linear equations	Sun Woo Park (National Institute for Mathematical Sciences, Korea (South)); Hyunju Lee and Byung Chun Kim (IQCT, Korea (South)); Youngho Woo (National Institute for Mathematical Sciences, Korea (South)); Kyungtaek Jun (IQCT Inc., Korea (South))
Poster 8B	Applications for ICT Convergence	1570756798	Distance based MCS method for LTE-V2X Mode4	Ji-cheng Yin and Seung-Hoon Hwang (Dongguk University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8B	Applications for ICT Convergence	1570754199	Data encryption method using CP-ABE with symmetric key algorithm in blockchain network	Tae Rim Lee, Ho-se Moon and Juwook Jang (Sogang University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570734781	The Empirical Evaluation of Machine Learning Models Predicting Round-Trip Time in Cellular Network	Seunghan Choi (Electronics and Telecommunications Research Institute, Korea (South)); Changki Kim (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570736168	ESS Capacity Decision Tool for Plus-Energy Housing Complex	Sewan Heo (Electronics and Telecommunications Research Institute, Korea (South)); Tai Yeon Ku and Wan-Ki Park (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570741275	An Empirical Study on Channel Pruning through Residual Connections	Jong-Ryul Lee (ETRI, Korea (South)); Yong-Hyuk Moon (Electronics and Telecommunications Research Institute (ETRI) & University of Science and Technology (UST), Korea (South))
Poster 8C	5G, 4G, WLAN	1570744332	Methodology for network capacity assessment of 5G NSA EN-DC network	Kyung-yul Cheon (ETRI(Electronics and Telecommunications Research Institute), Korea (South)); Jaehyouk Jahng (ETRI, Korea (South)); Seung Keun Park (Electronics and Telecommunications Research Institute, Korea (South)); Jun Kyun Choi (KAIST, Korea (South))
Poster 8C	5G, 4G, WLAN	1570745065	Design of Low-latency Synthesizable PUCCH Demodulation Unit Using Simulink HDL Coder	Young-Hoon Kim (Electronics and Telecommunications Research Institute, Korea (South)); Hyungsik Ju and Ikjae Chun (ETRI, Korea (South)); Chan-Bok Jeong (Electronics and Telecommunications Research Institute (ETRI) & Chungbuk National University, Korea (South)); Moon-Sik Lee (Electronics and Telecommunications Research Institute & Stanford University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570745216	Temperature Sensor Circuit with Dynamic Element Matching in CMOS 65 nm for a mmWave Beamformer	Seunghyun Jang (ETRI, Korea (South)); Sunwoo Kong (Electronics and Telecommunications Research Institute, Korea (South)); Hui Dong Lee (Electronics and Telecommunications Research Institute, Korea (South)); Bonghyuk Park and Soek-Bong Hyun (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570746596	Norm-Correlation based filter pruning to accelerating networks	Minsoo Hong (KETI, Korea (South)); Sungjei Kim and Jinwoo Jeong (Korea Electronics Technology Institute, Korea (South))
Poster 8C	5G, 4G, WLAN	1570746597	Fast Beam Search for IRS-Assisted Cellular Systems	Qasim Sultan and Yong Soo Cho (Chung-Ang University, Korea (South)); Yeong Jun Kim (LG Electronics, Korea (South)); Mohammed Saquib Khan (Chung-Ang University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8C	5G, 4G, WLAN	1570748184	Demonstration of service continuity based on multi-connectivity with cellular and satellite access networks	Hee Sang Chung and Junhyeong Kim (ETRI, Korea (South)); Gosan Noh (Electronics and Telecommunications Research Institute, Korea (South)); Seok Ho Won (ETRI, Korea (South)); Taesang Choi (Electronic and Telecommunications Research Institute, Korea (South)); Ilgyu Kim (ETRI of KOREA, Korea (South))
Poster 8C	5G, 4G, WLAN	1570748212	Vision-Aided Beam Allocation for Indoor mmWave Communications	Abdul Latif Sarker, Igbafe Orikumhi and Jeongwan Kang (Hanyang University, Korea (South)); Hyekyung Jwa and Jeehyeon Na (ETRI, Korea (South)); Sunwoo Kim (Hanyang University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570748557	Analysis of Averaging Effects of Probing Signal on Moving Target Detection Radar	Sung Jun Lee (Electronics and Telecommunications Research Institute (ETRI), Korea (South))
Poster 8C	5G, 4G, WLAN	1570748794	Countering Interest flooding DDoS attacks in NDN Network	DongMyung Sul, Sung Hyuk Byun and JongSeck Lee (Electronics and Telecommunications Research Institute, Korea (South)); Namseok Ko (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570748802	Relay Node Load Balancing Method In Mobile Communication Environment	MinSuk Choi and Hee Sang Chung (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570748880	Design and Implementation of Smart Energy Platform for Industrial Complex	Dong Seong Kim, Jae Woo Kim, Jae Min Lee and Won Jae Ryu (Kumoh National Institute of Technology, Korea (South)); Geoil Yang (LG U plus, Korea (South))
Poster 8C	5G, 4G, WLAN	1570749422	Indoor Navigation Algorithm Based on a Smartphone Inertial Measurement Unit and Map Matching	Taewon Kang and Younghoon Shin (Yonsei University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570749629	An Analysis of Incident Report Data for Emergence Dispatch	Sungwon Byon (Electronics and Telecommunication Research Insitute, Korea (South)); Eunjung Kwon and Eui-Suk Jung (ETRI, Korea (South)); Yong-Tae Lee (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8C	5G, 4G, WLAN	1570749847	Phase Noise Compensation Method in Sub-THz SC-FDE systems	HyeongSook Park (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570750087	A construction of 2-sequential-recovery locally repairable codes	Zhi Jing and Hong-Yeop Song (Yonsei University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570751775	Buffer-Aided Cooperative Phase Steering Technique for Delay Tolerant Networks	Sangku Lee (Republic of Korea Air Force Academy, Korea (South)); Janghyuk Youn (Chungnam National University, Korea (South)); Yongjae Kim (KIOST, Korea (South)); Bang Chul Jung (Chungnam National University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570753515	A Proposal of Parameter Extension for Multilanguage in 5G CBS	Hyunjoo Kang, Seung-Hee Oh, Sang-Lim Ju, Woo-Sug Jung and Yong-Tae Lee (ETRI, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8C	5G, 4G, WLAN	1570754004	Analysis of the Effect of Covid-19 on the Floating Population of Seoul Using the PageRank Algorithm	JinWoo Kim and HyoungSun Na (Kwangwoon University, Korea (South)); Hee-Gook Jun (Openup, Korea (South)); Jinhyun Ahn (Jeju National University, Korea (South)); Daesung Jun (Junju University, Korea (South)); Dong-Hyuk Im (Kwangwoon University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754110	A Study on hybrid content delivery based on popularity in 5G satellite communications	Jeongyun Kim and Changki Kim (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754124	Unified Baseband Signal Generation for Multiple Component Carriers Using Phase Compensation	Youngil Jeon (Electronics and Telecommunications Research Institute, Korea (South)); Chan-Bok Jeong (Electronics and Telecommunications Research Institute (ETRI) & Chungbuk National University, Korea (South)); Ikjae Chun (ETRI, Korea (South)); Moon-Sik Lee (Electronics and Telecommunications Research Institute & Stanford University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754166	Mechanism of a big-data platform for residential heat energy consumption	Tai Yeon Ku (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754233	A Practical Dense-to-Sparse Learning for a Manageable Object Detector on the Ground	Yong-Hyuk Moon (Electronics and Telecommunications Research Institute (ETRI) & University of Science and Technology (UST), Korea (South)); Yong-Ju Lee (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754307	mobileYOLACT: Toward Lightweight Instance Segmentation for Mobile Devices	Juwon Lee, Seungjae Lee and Jong Gook Ko (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754336	Hybrid peer-to-peer network based layered blockchain architecture for enhancement of synchronization performance	Wook Hyun (ETRI, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754442	Service Mesh Based Distributed Tracing System	Donghun Cha and younghan Kim (Soongsil University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754544	A Design of Service Function Chaining with VNF and CNF on Cloud Native Environment	Hokeun Lim (Soongsil, Korea (South)); younghan Kim (Soongsil University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754545	Developing a Real-time OPC UA based Aggregated Monitoring System for Small-scale Distributed Energy Resources among Microgrids	Yoon-Sik Yoo (KAIST & ETRI, Korea (South)); S H Shah Newaz (Universiti Teknologi Brunei (UTB), Brunei Darussalam); Il-Woo Lee (ETRI, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8C	5G, 4G, WLAN	1570754592	Overview of 5G NR technology for Non-Terrestrial Networks	Mi Young Yun (Electronics and Telecommunications Research Institute, Korea (South)); Jihyung Kim and Dukhyun You (ETRI, Korea (South)); Moon-Sik Lee (Electronics and Telecommunications Research Institute & Stanford University, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754684	A Practical Approach to Dealing with Missing Sensor Data for Data Users	Seungtaek Oh and Jaewon Moon (Korea Electronics Technology Institute, Korea (South)); Seung Woo Kum (Korea Electronics Technology Institute, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754712	Link-Level Performance Evaluation of mmWave 5G NR Sidelink Communications	Junhyeong Kim (ETRI, Korea (South)); Gosan Noh (Electronics and Telecommunications Research Institute, Korea (South)); Taehyoung Kim (Soonchunhyang University, Korea (South)); Hee Sang Chung (ETRI, Korea (South)); Ilgyu Kim (ETRI of KOREA, Korea (South))
Poster 8C	5G, 4G, WLAN	1570754726	Performance Comparison of NLOS Detection Methods in UWB	Jaе Hyeok Yoon, Hyeongyun Kim, Dongho Seo and Haewoon Nam (Hanyang University, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570739001	Dynamic Spatial Area Design for Transportation Management at Smart Road Lighting Platform System in Korea	Tae Wan Kim (Ajou University & Ajou Transportation Research Institute, Korea (South)); Ryu Ingon (Ajou University, Korea (South)); Hyun Mi Lee (TOD-based Engineering Research Center, Korea (South)); Jeong Ah Jang (Ajou University & Transportation Oriented Development, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570740254	Intelligent real-time control system through deep learning-based object detection and socket communication in the embedded board environment	Jehong An, Kwang Hyun Jung, Sang Yoo Kim and Ji Su Jenny Mun (Korea Photonics Technology Institute(KOPTI), Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570740411	Cross-eye Jamming System with Effective Cross-Eye Gain by the Phase and Gain Control	Jung Hoon Lee (Agency for Defense Development, Korea (South)); Jeil Jo (Agency for Defense Development & Chungnam National University, Korea (South)); Chi ho Lee and Chang hoon Lee (Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570746542	Indoor Positioning System with Grouping Strategy of BLE Advertising Packets	Jeong-Sun Yoon, Dae-Ho Kim and Hui-Seon Gang (Chosun University, Korea (South)); Jae-Young Pyun (Chosun University & Dept. of Information and Communication Engineering, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570746604	Enforcing Spatially Coherent Structures for Accurate 3D Shape Recovery	Usman Ali and Muhammad Tariq Mahmood (Korea University of Technology and Education, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570748289	A Unified Framework Issue for 5G MEC Deployment	Heeyoung Jung and Jonghwa Yi (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570748798	A Simple Method to Detection the Lung Cancer Tumor using CT images on Deep Learning	Young-Jin Park and Hui-Sup Cho (DGIST, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8D	Wireless & Mobile Communication Systems	1570748815	CM DATA - KIITC Pandemic Simulator (CMKPS): A tool to simulate quarantine policy in pandemic	Kyungdon Choi (CM DATA, Korea (South)); ChaeSeok Lee and Byunghun Han (KAIST Institute for IT Convergence, Korea (South)); Yongho Kim and Nam Hyoung Ho (CNFrontier, Korea (South)); Hojong Chang (Korea Advanced Institute of Science and Technology, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570748949	Acoustic feedback detection for online video conferencing	Dalwon Jang (KETI, Korea (South)); Jaewon Lee (Korea Electronics Technology Institute, Korea (South)); Jongseol J. Lee (KETI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570749666	Impacts of Cluster Architecture on Security and Performance of UAV-assisted Wireless Sensor Networks	Gicheol Wang (Electronics and Telecommunications Research Institute, Korea (South)); Jaein Kim and Sungchang Kim (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570749719	Efficient Implementation of the SAGE Algorithm for Channel Impulse Response Estimation	Kyung-Won Kim, Myung-Don Kim, Juyul Lee, Jae-Joon Park and Heon Kook Kwon (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570749764	Propagation Characteristics of an Industrial Environment Channel at 4.1 GHz	Junseok Kim, Chung Sup Kim, Ju Yeon Hong, Jong Soo Lim and Young Jun Chong (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570749824	Supervised Service Classification using Downlink Control Indicator in LTE Physical Downlink Control Channel	Jeong-Woo Son (ETRI, Korea (South)); Sunghee Lee (Electronics and Telecommunications Research Institute, Korea (South)); Minho Han (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570749842	Machine Learning-Based Error Recovery System for NAND Flash Memory with Process Variation	Seonmin Lee, Jeongju Jee and Hyuncheol Park (KAIST, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753236	Emergency Dispatch Support System for Police Officers in Incident Scenes	Hyunho Park (ETRI, Korea (South)); Sungwon Byon (Electronics and Telecommunication Research Institute, Korea (South)); Eunjung Kwon, Dong Man Jang and Eui-Suk Jung (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753244	Emergency Call Fusion Analysis System for Disaster Response	Hyunho Park and Eunjung Kwon (ETRI, Korea (South)); Sungwon Byon (Electronics and Telecommunication Research Institute, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753315	Downlink Performance of Testbed for MN system Using 22-GHz mmWave	Seon-Ae Kim (Electrics and Telecommunications Research Institute, Korea (South)); Seung Nam Choi and Hee Sang Chung (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753734	Considerations on Ultra broadband, High reliable and Low latency services in 6G system	Sun Mi Jun (ETRI, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8D	Wireless & Mobile Communication Systems	1570753752	SPER: Stay-Point Extraction considering Revisits in a Single Trajectory	Jiyoun Lim and Seunghee Yoo (ETRI, Korea (South)); Seungeun Chung (Electronics and Telecommunications Research Institute, Korea (South)); Ga Gue Kim and Kyoung-Ju Noh (ETRI, Korea (South)); Jeong Mook Lim (Electronics and Telecommunications Research Institute, Korea (South)); Hyun-Tae Jeong (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753928	3D Mesh Transformation System using Multi-Object Tracking for Augmented Reality Services	Young-Suk Yoon (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753929	Link Association for Small Cell Networks with Wireless Backhaul	Byungju Lim and Young-Chai Ko (Korea University, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753946	Global-Local Three-Stream Network for Acoustic Scene Classification	Su-Hwa Jo (Pukyong National University & Electronics and Telecommunications Research Institute, Korea (South)); Chi Yoon Jeong (Electronics and Telecommunications Research Institute & University of Science and Technology, Korea (South)); Kyeong-Deok Moon (Electronics and Telecommunications Research Institute, Korea (South)); Chae-Kyu Kim (Pukyong National University, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753957	Patient Identification based on Physical Rehabilitation Movements using Skeleton Data	JeongKyun Kim (University of Science and Technology, Korea (South)); Kang Bok Lee (Electronics and Telecommunications Research Institute, Korea (South)); Jae-Chul Kim (LBS Research Team, Telematics Research Division, ETRI, Korea (South)); Sang Gi Hong (Electronics and Telecommunication Research Institute, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570753968	Carrier Aggregation enhancement	Junsik Kim (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754139	Partial CSI based Regularized Zero-Forcing Precoder for Multibeam Satellite Communications toward 6G Networks	Jinho Kang and Gyeongrae Im (ETRI, Korea (South)); Sooyeob Jung (Electronics and Telecommunication Research Institute (ETRI), Korea (South)); JoonGyu Ryu (ETRI, Korea (South)); Woo Jin Byun (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754143	Intelligent Offloading and Resource Allocation in HAP-Assisted MEC Networks	Demeke Shumeye and Anh-Tien Tran (Chung-Ang University, Korea (South)); Nhu-Ngoc Dao (Sejong University, Korea (South)); Sungrae Cho (Chung-Ang University, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754147	Multi-Stage Precoder Design for Cooperative Massive MIMO Networks with Limited Feedback	Jinho Kang (ETRI, Korea (South)); Wan Choi (Seoul National University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8D	Wireless & Mobile Communication Systems	1570754221	Quantum-Assisted Decoding for Non-Binary Low-Density Parity-Check Codes	Hyunwoo Jung (Korea Advanced Institute of Science and Technology (KAIST), Korea (South)); Jeonghwan Kang (Samsung Electronics, Korea (South)); Jeongseok Ha (KAIST, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754291	Sum Spectral Efficiency Maximization in Cell-Free Millimeter-Wave Massive MIMO Systems	Minhyun Kim, Seung-Eun Hong and Jeehyeon Na (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754379	Cumulant Matrix-based Channel Estimation for Near-Field Massive MIMO Systems	Kyoungchan Seo (Korea Advanced Institute of Science and Technology (KAIST), Korea (South)); Gye-Tae Gil (KAIST, Korea (South)); Girim Kwon (Massachusetts Institute of Technology, USA); Songcheol Hong (IEEE, USA); Hyuncheol Park (KAIST, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754424	Energy-Efficient Timing Estimation and SRS Allocation Scheme for Wireless Industry Service	Yongsun Kim and Kapseok Chang (ETRI, Korea (South)); Woncheol Cho and Young-Jo Ko (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754546	eHealth Information Exchange Using a Networked Android Application	Nazib Abdun Nasir and Seong-Ho Jeong (Hankuk University of Foreign Studies, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754646	Fast eHealth Information Delivery in the ICN-based Mobile Networks	Kamrul Hasan and Seong-Ho Jeong (Hankuk University of Foreign Studies, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754653	A Delete-based Beam Selection Algorithm for Cell-free Networks	Seungkwon Cho (Electronics and Telecommunication Research Institute, Korea (South)); In-Kyeong Choi (ETRI, Korea (South)); Donghyuk Gwak (Electronics and Telecommunications Research Institute, Korea (South)); Seung-Eun Hong (ETRI, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754667	SSF: Smart city Semantics Framework for reusability of semantic data	JiEun Lee (Sejong University, Korea (South)); SeungMyeong Jeong (Korea Electronics Technology Institute, Korea (South)); Seong Ki Yoo (Coventry University, United Kingdom (Great Britain)); JaeSeung Song (Sejong University, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754671	A Novel Unified Trilateration Method for RSSI based Indoor Localization	Yang-Bae Park and Ye Hoon Lee (Seoul National University of Science and Technology, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754703	Reference Model of Integrated Public Alert System in Korea	Yoonkwan Byun (University of Seoul, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570754743	System Requirements for the Reference Model of Integrated Public Alert System in Korea	Yoonkwan Byun (University of Seoul, Korea (South))
Poster 8D	Wireless & Mobile Communication Systems	1570756149	Performance Analysis of IEEE 802.11 based Long-range Drone Networks in Disaster Environment	Jun-Woo Cho and Jung-Hoon Lee (Ajou University, Korea (South)); Jong Soo Baik (University of Ajou, Korea (South)); Jae-Hyun Kim (Ajou University, South Korea, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8E	Artificial Intelligence and Machine Learning II	1570749787	Generating Face Images Using VQGAN and Sparse Transformer	Dong-Hyuck Im and Yongseok Seo (ETRI, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570728866	Tumor-Stroma Classification in Colorectal Cancer Patients with Transfer Learning based Binary Classifier	Lakpa Dorje Tamang, Min Tae Kim, Seong Joon Kim and Byung Wook Kim (Changwon National University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570739732	Stroke medical ontology QA system for processing medical queries in natural language form	SoonHyun Kwon (Electronics and Telecommunications Research Institute Daejeon Korea, Korea (South)); Jaehak Yu (Electronics and Telecommunications Research Institute, Korea (South)); Se Jin Park (Principle Researcher, Korea (South)); Jong-arm Jun and Cheol Sig Pyo (ETRI, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570740163	Human Motion Assessment on Mobile Devices	HoBeom Jeon (University of Science and Technology & Electronics and Telecommunications Research Institute, Korea (South)); DoHyung Kim (Electronics and Telecommunications Research Institute, Korea (South)); Jaehong Kim (Electronics & Telecommunication Research Institute (ETRI), Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570740613	CoFirNet: Conditional Feature Vector-based Fashion Image Retrieval Network	Min-Soo Ko and Young Han Lee (Korea Electronics Technology Institute, Korea (South)); Choong Sang Cho (Korea Electronic Technology Institute (KETI), Korea (South)); Hyok Song (Korea Electronics Technology Institute, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570740685	Development of AI-based ESS control algorithm to reduce peak load of building	Cheol-Ho Shin and Taehyung Kim (ETRI, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570740688	Impact of Optical ISL on Satellite Routing Path Discovery in LEO Satellite Mega-Constellation	Yonghwa Lee (Daegu Gyeongbuk Institute of Science and Technology, Korea (South)); Jeongho Kwak (DGIST, Korea (South)); Jihwan P. Choi (Korea Advanced Institute of Science and Technology, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570740718	Coord-FCN for same-class objects segmentation	Guohua Zhu and Suk Chan Kim (Pusan National University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570740816	V2X Based Lateral Acceleration Prediction for Connected and Automated Vehicle	Wonwoo Jo (Hanyang University, Korea (South)); Hyun-kyoo Park (University of Hanyang, Korea (South)); Sang-Sun Lee (Hanyang University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570743751	Hybrid ResNet: A Shallow Deep Learning Architecture for Moderate Datasets	Ghulam Murtaza, Obaid-ur Rehman and Muhammad K. Shahzad (National University of Sciences & Technology (NUST), Pakistan); S. M. Riazul Islam (Sejong University, Korea (South)); Mahmud Hossain (University of Alabama at Birmingham, USA); Kyung Sup Kwak (Inha University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8E	Artificial Intelligence and Machine Learning II	1570748499	Machine Learning Aided KREONET for Advanced Scientific Research Support	Chankyun Lee (KISTI, Korea (South)); Minseok Jang (Korea Institute of Science and Technology Information, Korea (South)); Min-ki Noh (KISTI, Korea (South)); Buseung Cho (Korea Institute of Science and Technology Information & University of Science and Technology, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570748513	High-level Image Classification by Synergizing Image Captioning with BERT	Xiaohong Yu, Yoseop Ahn and Jaehoon Jeong (Sungkyunkwan University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570748910	Are You a Good Client? Client Classification in Federated Learning	Hyejun Jeong, JaeJu An and Jaehoon Jeong (Sungkyunkwan University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570749171	Learning Cooperative Intrinsic Motivation in Multi-Agent Reinforcement Learning	Seung-Jin Hong (University of Science and Technology(UST), Korea (South)); Sang-Kwang Lee (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570749310	On Constructing Vessel Dataset Structure Using GAN-based Data Augmentation	Ah Reum Oh (ETRI, South Korea, Korea (South)); Jiwon Lee (Electronics and Telecommunications Research Institute, Korea (South)); SungWon Moon, Jung Soo Lee, Do-Won Nam and Wonyoung Yoo (ETRI, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570749499	Automatic Stylized Plaid Check Pattern Try-on	Ji Soo Kim, Jisoo Park and Junseok Kwon (Chung-Ang University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570749755	LSTM-based Office Occupancy Detection Using Smart plug Data	Seunghyeon Park, Kiwoong Kwon, Eunggi Lee, Sanghun Kim and Yongho Kim (Korea Electronics Technology Institute, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570749819	Design of NNEF-PyTorch Neural Network Model Converter	KyungHee Lee (ETRI, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570749996	A Compact Neural Architecture Search for Accelerating Image Classification Models	Tuan Manh Tao (Korea Advanced Institute of Science and Technology, Korea (South)); Heejae Kim (KAIST, Korea (South)); Chan-Hyun Youn (Korea Advanced Institute of Science and Technology, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570750067	Quantized ADAM with Monotonically Increasing Resolution of Quantization	Jinwuk Seok (Electronics and Telecommunication Research Institute, Korea (South)); Jeong-Si Kim (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570750499	An Analysis of Elderly Drivers' Traffic Accidents Influential Factors using Multiple Linear Regression	Ahhyeon Hong and Donghee Noh (Korea Electronics Technology Institute, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570751756	Deep Learning for Coexistence Radar-Communication Waveform Recognition	Thien Huynh-The (Kumoh National Institute of Technology, Korea (South)); Quoc-Viet Pham (Pusan National University, Korea (South)); Toan-Van Nguyen (Utah State University, USA); Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8E	Artificial Intelligence and Machine Learning II	1570752114	Multi-feature based Object Classification using Flexible Gloves inspired by Human Grasping	Yu-Lim Min (University of Science and Technology, Korea (South) & ETRI, Korea (South)); Yun-Jeong Kim (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); Jeong-Nam Kim (University of Science and Technology, Korea (South)); Hye-Jin Kim (Electronics and Telecommunications Research Institute (ETRI), Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570753944	Deep Learning-Based Beamforming for Intelligent Reflecting Surface-Assisted mmWave Systems	Yongjun Ahn and Byonghyo Shim (Seoul National University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570753949	Experimental Design for Multi-task Deep Learning toward Intelligence Augmented Visual AI	ByungRae Cha (GIST, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754036	Korean Traditional Document Translation Using Transformers In Bidirectional-CRF	JunGi Lee and Jongwon Jang (Kyungpook National University, Korea (South)); Jangwon Lee (SK Holdings C&C, Co. Ltd., Korea (South)); Gil-Jin Jang and Minho Lee (Kyungpook National University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754122	Conducted Electromagnetic Interference Energy Harvesting for Green Communication of IoT Sensors	Changhee Hyoung (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754206	AMM based p2p energy trading system using hyperledger fabric blockchain	Juwon Kim, Song Jae Geun, HyeonWoo Shin and Juwook Jang (Sogang University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754348	UWB Sensor Assisted Self-Quarantined Person Health Status Monitoring using LSTM	Fabliha Bushra Islam, Cosmas Ifeanyi Nwakanma, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754507	Compressed Neural Network for Thermal Array-Based Fall Detection System on Embedded AI	Adinda Riztia Putri, Goodness Oluchi Anyanwu, Mareska Pratiwi Maharani, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754621	Optimization for LEO Satellites-Ground-Integrated Networks via Deep Reinforcement Learning	Ju-Hyung Lee and Young-Chai Ko (Korea University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754692	End-to-End Learning-based Self-Driving Control Imitating Human Driving	Donghyun Kim (Hanyang University, Korea (South)); Jaerock Kwon (University of Michigan - Dearborn, USA); Haewoon Nam (Hanyang University, Korea (South))
Poster 8E	Artificial Intelligence and Machine Learning II	1570754708	Improvements on Integrated Health and Safety Management System based on Wi-pose to increase Productivity	Punitharuban Thirugnanasammandamoorthi and Jae-ho Choi (Dong-A University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8E	Artificial Intelligence and Machine Learning II	1570755721	User Association with Multi-Agent Reinforcement Learning for Energy-Efficient UDN	Jihoon Moon and Byonghyo Shim (Seoul National University, Korea (South))
Poster 8F	Internet of Things	1570757490	Perspectives using Reinforcement Learning approach and Ray-tracing SW for 5G+ Indoor Coverage Optimization	Ju Yeon Hong, Chung-Sup Kim, Jun Seok Kim, Jong-Su Lim and Young Jun Chong (ETRI, Korea (South))
Poster 8F	Internet of Things	1570729748	Collective AHU Anomaly Detection for Building Energy Optimization	Marie Kim (ETRI, Korea (South))
Poster 8F	Internet of Things	1570740399	Sensor Fault Diagnosis Using an Indirect Fuzzy Feedback Linearization and Decision Trees	Shahnaz Tayebihaghighi and Insoo Koo (University of Ulsan, Korea (South))
Poster 8F	Internet of Things	1570740691	Evaluating the Performance of Deep Learning Inference Service on Edge Platform	Hyun Hwa Choi (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8F	Internet of Things	1570740696	Research and Implementation of Network Clock Synchronization Based on IEEE1588v2 Protocol	Jaesun Cha (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); TaeJoon Park (ETRI, Korea (South))
Poster 8F	Internet of Things	1570740763	Sleep Stage Classification for Inter-institutional Transfer Learning	DongYoung Kim (Hallym Univ, Korea (South)); Jaemin Jeong (Hallym University, Korea (South)); Yunhee Woo (HALLYM University, Korea (South)); Jeong-Gun Lee and Dong-Kyu Kim (Hallym University, Korea (South))
Poster 8F	Internet of Things	1570740848	Route Prediction in Software Defined Networks Using Ensemble Extreme Learning Machines	Sowmya Sanagavarapu and Sashank Sridhar (Anna University, India)
Poster 8F	Internet of Things	1570741796	Learning-driven Spatio-temporal Feature Extraction for Violence Detection in IoT Environments	Dipon Kumar Ghosh and Amitabha Chakrabarty (BRAC University, Bangladesh); Nafees Mansoor (University of Liberal Arts Bangladesh, Bangladesh); Doug Young Suh (Kyunghee University, Korea (South)); M. Jalil Piran (Sejong University, Korea (South))
Poster 8F	Internet of Things	1570742152	Improved Early Exiting Activation to Accelerate Edge Inference	Junyong Park and Jong-Ryul Lee (ETRI, Korea (South)); Yong-Hyuk Moon (Electronics and Telecommunications Research Institute (ETRI) & University of Science and Technology (UST), Korea (South))
Poster 8F	Internet of Things	1570742301	LSFD: Lightweight Single Stage Masked Face Detector with a CPU Real-time Speed	Youngsam Kim, Jong-Hyuk Roh and Soohyung Kim (ETRI, Korea (South))
Poster 8F	Internet of Things	1570748636	A Cloud QoS-driven Scheduler based on Deep Reinforcement Learning	Minh-Ngoc Tran and younghan Kim (Soongsil University, Korea (South))
Poster 8F	Internet of Things	1570748646	Deep Learning-based fault prediction in cloud system	Dai Dinh Vu, younghan Kim and Tuong Vu (Soongsil University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8F	Internet of Things	1570749169	History-Aware Adaptive Route Update Scheme for Low-Power and Lossy Networks	Nain Zulqar (Yeungnam University, Korea (South)); Arslan Musaddiq (Kumoh National Institute of Technology, Korea (South)); Yazdan Ahmad Qadri and Sung Won Kim (Yeungnam University, Korea (South))
Poster 8F	Internet of Things	1570749289	Metadata Modeling and Operation Flow of Problem Solving Ecosystem for ECG Data Engineering and Arrhythmia Diagnosis	Sungpil Woo and Young-Ho Suh (ETRI, Korea (South)); Muhammad Zubair (Korea University of Science and Technology & Electronics and Telecommunication Research Institute, Korea (South)); Boyun Eom (ETRI, Korea (South)); Dong-Hwan Park (Electronics and Telecommunications Research Institute, Korea (South)); Sunhwan Lim (ETRI, Korea (South)); Chan-Won Park (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8F	Internet of Things	1570749298	PCI Workplace: A decentralized collaboration framework for AI based problem-solving	Young-Ho Suh, Sungpil Woo and Boyun Eom (ETRI, Korea (South)); Dong-Hwan Park (Electronics and Telecommunications Research Institute, Korea (South)); Sunhwan Lim (ETRI, Korea (South)); Chan-Won Park (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8F	Internet of Things	1570749513	Robust Inspection of Micro-LED Chip Defects Using Unsupervised Anomaly Detection	Sooill Park and Jong Hwan Ko (Sungkyunkwan University, Korea (South))
Poster 8F	Internet of Things	1570749798	A Hadamard Matrix Beamforming System for Direction Estimation of IoT Sensors	Soo-Chang Chae, Ki-Jin Kim and Kwang-Ho Ahn (Korea Electronics Technology Institute, Korea (South))
Poster 8F	Internet of Things	1570749845	Towards Measuring Body Temperature Using COTS Mobile Devices	Sanghoon Jun (Sungkyunkwan University & College of Computing and Informatics, Korea (South)); Jinkyu Lee (Sungkyunkwan University, Korea (South))
Poster 8F	Internet of Things	1570749909	Fine Frequency Offset Synchronization Scheme for Internet of Things Devices in 5G non-terrestrial network	Gyeongrae Im and JoonGyu Ryu (ETRI, Korea (South)); Woo Jin Byun (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8F	Internet of Things	1570751790	Non-intrusive Occupancy Estimation using a Smartphone GPS	Sanghun Kim, Eunggi Lee, Seunghyeon Park and Kiwoong Kwon (Korea Electronics Technology Institute, Korea (South))
Poster 8F	Internet of Things	1570751906	Development of CCTV Stream Annotation Tool for Preparing Office Occupancy Learning Dataset	Eunggi Lee, Kiwoong Kwon, Sanghun Kim and Seunghyeon Park (Korea Electronics Technology Institute, Korea (South))
Poster 8F	Internet of Things	1570753224	Acoustic IoT Framework to Detect Missing Person in Mountainous Areas	Jeehyeong Kim, Heeseok Oh, Won Gi Choi, Min-Hwan Song and Sang-Shin Lee (Korea Electronics Technology Institute, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Poster 8F	Internet of Things	1570753789	An Analysis of Emergency Calls Data Record for Patient Severity Prediction	Eunjung Kwon and Hyunho Park (ETRI, Korea (South)); Sungwon Byon (Electronics and Telecommunication Research Insititute, Korea (South)); Kyu-Chul Lee (Changnam National University, Korea (South)); Kyo-Hoon Son (Electronics and Telecommunications Research Institute, Korea (South))
Poster 8F	Internet of Things	1570753921	Real-time Submodule Communication Link Monitoring for MMC-HVDC systems	Hark Yoo, Byung Hee Son, Giha Yoon, Ryangsoo Kim and Sungchang Kim (ETRI, Korea (South))
Poster 8F	Internet of Things	1570753936	Path planning of ROS autonomous robot based on 2D lidar-based SLAM	Shengmin Zhao (DonggukUniversity, Korea (South)); Seung-Hoon Hwang (Dongguk University, Korea (South))
Poster 8F	Internet of Things	1570753975	PUF-based IoT Device Authentication Scheme on IoT Open Platform	Byoungkoo Kim (Electronics and Telecommunications Research Institute (ETRI), Korea (South))
Poster 8F	Internet of Things	1570754134	PubMob: Publisher Mobility Support in NDN-based Pub/Sub System	Hak Suh Kim (Electronics and Telecommunications Research Institute, Korea (South)); Namseok Ko (ETRI, Korea (South))
Poster 8F	Internet of Things	1570754218	Implementation and Evaluation of NDN-based Video Streaming System	HyunKyung Yoo (Electronics and Telecommunications Research Institute, Korea (South)); Namseok Ko (ETRI, Korea (South))
Poster 8F	Internet of Things	1570754460	mIoT Twins: Design and Evaluation of mIoT Framework for Private Edge Networks	Junhee Lee (Electronics and Telecommunications Research Institute, Korea (South)); Sungjoo Kang (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); Ingeol Chun (SungKyunKwan University & School of Information & Communication Engineering, Korea (South))
Poster 8F	Internet of Things	1570754597	A Design of Policy-Based Scheduling for Federated Multi-Clusters	Youngsun Kim and younghan Kim (Soongsil University, Korea (South))
Poster 8F	Internet of Things	1570754626	A Design of Serverless Computing Service for Edge Clouds	Jaeun Cho (Soongsil University & DCN lab, Korea (South)); younghan Kim (Soongsil University, Korea (South))
Poster 8F	Internet of Things	1570755752	Understanding IoT climate Data based Predictive Model for Outdoor Smart Farm	Aekyung Moon and Juyoung Park (ETRI, Korea (South))
Poster 8F	Internet of Things	1570756013	Soft Checksum Method for Error-tolerant Multi-hop Transmission in Wireless Sensor Networks	Myung-Sup Lee and Saewoong Bahk (Seoul National University, Korea (South))
Poster 8F	Internet of Things	1570756719	On the performance of SEC and SEC-DED-DAEC codes over burst error channels	Donggeun Lee (SungKyunKwan University, Korea (South)); Cho Eunyoung and Sang-Hyo Kim (Sungkyunkwan University, Korea (South))
Worksh op I:	Quantum Internet Technology	1570749740	Position-Error Compensation Method for FSO using Two-Step Search	Jong-Min Kim, Ju-Hyung Lee and Young-Chai Ko (Korea University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op I:	Quantum Internet Technology	1570749850	Side Channel Vulnerability in Parity Computation of Generic Key Reconciliation Process on QKD	GyuSang Kim (Korea University, Korea (South)); Dongjun Park (Koera University, Korea (South)); HeeSeok Kim and Seokhie Hong (Korea University, Korea (South))
Worksh op I:	Quantum Internet Technology	1570754105	Visible Wavelength Polarization Entangled Photon-Pairs Using SFWM in Nondegenerate Spatial Modes	Kyungtaek Lee, Junha Jung and Ju Han Lee (University of Seoul, Korea (South))
Worksh op I:	Quantum Internet Technology	1570754158	Finite-key-size Effect in Asymmetric Twin-Field Quantum Key Distribution	Jooyoun Park and Jun Heo (Korea University, Korea (South))
Worksh op I:	Quantum Internet Technology	1570754170	A Small Phase Shift Attack on Blind Quantum Computing	Kunhoo Kim and Jun Heo (Korea University, Korea (South))
Worksh op I:	Quantum Internet Technology	1570754681	A hybrid architecture for resolving cryptographic issues in Internet of things (IoT), Employing quantum computing supremacy	Shuhab Shamshad (University Azad Jammu and Kashmir Muzaffarabad, Pakistan); Rabia Riaz (AJK University, Pakistan); Farina Riaz (University of Southern Queensland Australia, Australia); Sanam Shahla Rizvi (Ajou University, Korea (South))
Worksh op II:	Intelligent and Immersive Content Technology	1570746476	Free Form Plenoptic Video Acquisition and Visualization System	Seongjin Park and Yugu Jung (Electronics and Telecommunications Research Institute, Korea (South)); Ho Wook Jang (ETRI, Korea (South)); DoHyung Kim (Electronics and Telecommunications Research Institute, Korea (South))
Worksh op II:	Intelligent and Immersive Content Technology	1570749135	A study on the application of knowledge distillation in ship type classification model development	Jiwon Lee (Electronics and Telecommunications Research Institute, Korea (South)); SungWon Moon, Do-Won Nam and Jung Soo Lee (ETRI, Korea (South)); Ah Reum Oh (ETRI, South Korea, Korea (South)); Wonyoung Yoo (ETRI, Korea (South))
Worksh op II:	Intelligent and Immersive Content Technology	1570749253	An Efficient Policy Improvement in Human Interactive Learning Using Entropy	Sung-Yun Park (University of Science & Technology & Electronics and Telecommunications Research Institute, Korea (South)); Dae-Wook Kim, Sang-Kwang Lee and Seong-Il Yang (Electronics and Telecommunications Research Institute, Korea (South))
Worksh op II:	Intelligent and Immersive Content Technology	1570751805	3D hand motion and position estimation using ultrasonic receiver array and inertial sensors	Sang-Woo Seo (Electronics and Telecommunications Research Institute (ETRI), Korea (South)); SeungJoon Kwon (ETRI, Korea (South))
Worksh op II:	Intelligent and Immersive Content Technology	1570752351	Convolutional Neural Network for Implementing a 2D Median Filter	Soonchul Jung (ETRI, Korea (South)); Jae Woo Kim (Electronics and Telecommunications Research Institute, Korea (South)); Yoon-Seok Choi (ETRI, Korea (South)); Hyeongju Jeon and Jin-Seo Kim (Electronics and Telecommunications Research Institute, Korea (South))
Worksh op II:	Intelligent and Immersive Content Technology	1570754631	Simplification method of photogrammetry building models based on vectorization techniques	Kyung-Kyu Kang and Chang-joon Park (ETRI, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op III:	The Workshop on Satellite Information Convergence Application Service (SICA2021)	1570749910	Monitoring of Vertical Land Motion at Tide Gauges Using Time-series Sequential SBAS Technique	Suresh Krishnan Palanisamy Vadivel and Duk-jin Kim (Seoul National University, Korea (South))
Worksh op III:	The Workshop on Satellite Information Convergence Application Service (SICA2021)	1570754151	Electromagnetic Wave Propagation Considering Planar Array Antenna in Atmospheric Environments	Changseong Kim, Soyeong Lee, Junmo Yang and Yong Bae Park (Ajou University, Korea (South))
Worksh op III:	The Workshop on Satellite Information Convergence Application Service (SICA2021)	1570754271	Performance Maximization of Satellite SAR image Processing using Reinforcement Learning	Kyeongrok Kim (Ajou, Korea (South)); Howard Yang (ZJU-UIUC Institute & University of Illinois at Urbana Champaign (UIUC), China); Tony Q. S. Quek (Singapore University of Technology and Design, Singapore); Jae-Hyun Kim (Ajou University, South Korea, Korea (South))
Worksh op III:	The Workshop on Satellite Information Convergence Application Service (SICA2021)	1570754557	Disparity probability volume guided defocus deblurring using dual pixel data	Soo Hyun Jung and Yong Seok Heo (Ajou University, Korea (South))
Worksh op III:	The Workshop on Satellite Information Convergence Application Service (SICA2021)	1570754652	Automating the Classification of Roof Waterproofing Buildings Using Satellite Images	Sehyeong Kim, Sangho Ahn, Jungwoo Chae, Jaehyeong Park and Kang Juyoung (Ajou University, Korea (South))
Worksh op III:	The Workshop on Satellite Information Convergence Application Service (SICA2021)	1570754683	Image Data Augmentation for SAR Automatic Target Recognition Using TripleGAN	Jieon Hwang and Yoan Shin (Soongsil University, Korea (South))
Worksh op IV:	The Workshop on Intelligent 6G communication system	1570745508	Robust Wireless Fronthauling Methods for Decentralized Deep Learning in Fog-RAN	Hoon Lee (Pukyong National University, Korea (South)); Junbeom Kim and Seok-Hwan Park (Jeonbuk National University, Korea (South))
Worksh op IV:	The Workshop on Intelligent 6G communication system	1570748817	Enhanced Vehicular Localization under Non-Line-of-Sight Multipath Propagation	Sung Il Choi (University of Korea, Korea (South)); Hong Ki Kim and Sang Hyun Lee (Korea University, Korea (South))
Worksh op IV:	The Workshop on Intelligent 6G communication system	1570753474	Performance Analysis of IRS-Assisted LEO Satellite Communication Systems	Juhwan Lee (Seoul National University, Korea (South)); Wonjae Shin (Ajou University, Korea (South)); Jungwoo Lee (Seoul National University, Korea (South))
Worksh op IV:	The Workshop on Intelligent 6G communication system	1570753823	Throughput Analysis of MISO Communication Systems with Limited Feedback	Wentao Zhou, Jeonghyeon Jang and Inkyu Lee (Korea University, Korea (South))
Worksh op IV:	The Workshop on Intelligent 6G communication system	1570754394	Autonomous Aerial Mobility Learning for Drone-Taxi Flight Control	Won Joon Yun, Yoo Jeong Ha, Soyi Jung and Joongheon Kim (Korea University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Workshop IV:	The Workshop on Intelligent 6G communication system	1570754467	Sign Gradient Aggregation for Wireless Federated Learning Using Bussgang LMMSE Estimation	Seunghoon Lee (Pohang University of Science and Technology, Korea (South)); Chanho Park and Namyoon Lee (POSTECH, Korea (South))
Workshop IX:	Sub-THz/THz Communication for 6G	1570748885	A Study on 5G Communication-Based Smart Logistics Cart System	Sung-hun Lee (Kwangwoon University, Korea (South)); Yong-An Jung, Dong-Cheul Han, Soo-Hyun Cho and Hyun-Kyu Cho (Gumi Electronics & Information Technology Research Institute, Korea (South)); Byung-Yong Kim (BYMETECH Corp., Korea (South))
Workshop IX:	Sub-THz/THz Communication for 6G	1570748904	Frequency and Symbol Timing offset Estimation Method for CP-OFDM based System	Yong-An Jung, Sang-Bong Byun, Han-Jae Shin, Dong-Cheul Han and Soo-Hyun Cho (Gumi Electronics & Information Technology Research Institute, Korea (South)); Sung-hun Lee (Kwangwoon University, Korea (South))
Workshop IX:	Sub-THz/THz Communication for 6G	1570749628	Performance Evaluation for NR Coexistence Study: Indoor Office Scenarios at 60 GHz	Kwanghyun Park, HoonGeun Song, Jaehyung Cho, Jieun Han and Sung-hwan Song (Korea Testing Laboratory, Korea (South)); Sang-Woon Jeon (Hanyang University, Korea (South))
Workshop IX:	Sub-THz/THz Communication for 6G	1570753954	5G NR Performance Evaluation Under Phase Noise Distortion for 52.6 GHz to 71 GHz	HoonGeun Song, Kwanghyun Park, Ji-young Park, Tae-Hoon Kwon and Jun-seok Seo (Korea Testing Laboratory, Korea (South)); Sang-Woon Jeon (Hanyang University, Korea (South))
Workshop IX:	Sub-THz/THz Communication for 6G	1570754185	Performance Evaluation of Wireless Absolute Time Synchronization for Mission-Critical Industry	Kapseok Chang (ETRI, Korea (South)); Woncheol Cho (Electronics and Telecommunications Research Institute, Korea (South)); Yongsun Kim (ETRI, Korea (South)); Young-Jo Ko (Electronics and Telecommunications Research Institute, Korea (South))
Workshop IX:	Sub-THz/THz Communication for 6G	1570754767	3D Hybrid Beamforming with 2D Planar Antenna Arrays for Downlink Massive MIMO Systems	Najam Us Saqib (Hanyang University, Korea (South)); Kwanghyun Park and HoonGeun Song (Korea Testing Laboratory, Korea (South)); Sang-Woon Jeon (Hanyang University, Korea (South))
Workshop V:	The 2nd Workshop on Korea University Artificial Intelligence Engineering Research (KU-AIER) Center	1570755034	Introduction to Quantum Reinforcement Learning: Theory and PennyLane-based Implementation	Yunseok Kwak, Won Joon Yun, Soyi Jung, Jong-Kook Kim and Joongheon Kim (Korea University, Korea (South))
Workshop V:	The 2nd Workshop on Korea University Artificial Intelligence Engineering Research (KU-AIER) Center	1570755941	Trends in Neural Architecture Search: Towards the Acceleration of Search	Youngkee Kim (Korea University, Korea (South)); Won Joon Yun (Korea University, Korea (South)); Youn Kyu Lee (Hongik University, Korea (South)); Soyi Jung and Joongheon Kim (Korea University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op V:	The 2nd Workshop on Korea University Artificial Intelligence Engineering Research (KU-AIER) Center	1570755995	A Study on Effective Use of BPM Information in Deepfake Detection	Soo-Hyun Lee, Gyung-eun Yun, Min Young Lim and Youn Kyu Lee (Seoul Women's University, Korea (South))
Worksh op V:	The 2nd Workshop on Korea University Artificial Intelligence Engineering Research (KU-AIER) Center	1570756000	A Measurement Study on Gray Channel-based Deepfake Detection	Seok Bin Son, Seong Hee Park and Youn Kyu Lee (Seoul Women's University, Korea (South))
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570752375	Impact of Hovering on Laguerre-Gaussian Beam Propagation for UAV-to-Ground Optical Communications	Yeong Hae Kim and Sudhanshu Arya (Pukyong National University, Korea (South)); Prakriti Saxena (Pukyong National University, Busan); Yeonho Chung (Pukyong National University, Korea (South))
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570754243	Skin lesion segmentation in dermoscopic images using CNN architecture	Chaitra D and Bumshik Lee (Chosun University, Korea (South))
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570754570	Predicted Seamless Human Positioning Algorithm based on M-RCNN in Obstacle Environment for Indoor Localization	Tae Wan Kim and Dong Myung Lee (Tongmyong University, Korea (South))
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570754612	A Real-time Clustering Scheme using Coordinate Density for 3D Localization	Ho Chul Lee and Dong Myung Lee (Tongmyong University, Korea (South))
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570754641	Introduction to Building and Service of the Fire Safety Big Data Platform in Korea	Yeonjin Kim (University of Seowon, Korea (South)); Bongseop Park and Gapyong Choi (National Fire Agency, Korea (South)); Gyoung-Bae Kim (Seowon University, Korea (South))
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570754656	Unsupervised Learning for 2D Image Texture Enhancement	Boney Labinghisa (EasyGeo Co., Korea (South)); Dong Myung Lee and Jeongsu Kim (Tongmyong University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570755747	A Study on Spatial Multiplexing Gain in LOS-2x2 MIMO Intelligent Reconfiguration Channel Environment	Woo Yong Lee (ETRI, Korea (South))
Worksh op VI:	The workshop on Information and Communication Strategic Technology for Industry Convergence	1570755827	Investigation of Deep Learning Method for Fire Detection from Videos	Soonghwan Ro (Kongju University, Korea (South))
Worksh op VII-A:	The 3rd Joint International Workshop on Military Informatics (Emerging Technology in Military)	1570740694	Enhanced Vulnerability Detection in SCADA Systems using Hyper-Parameter-Tuned Ensemble Learning	Love Allen Ahakonye, Gabriel Amaizu, Cosmas Ifeanyi Nwakanma, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-A:	The 3rd Joint International Workshop on Military Informatics (Emerging Technology in Military)	1570749365	Selecting Gaussian Process Regression Kernels for IoT Intrusion Detection and Classification	Cosmas Ifeanyi Nwakanma, Love Allen Ahakonye, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-A:	The 3rd Joint International Workshop on Military Informatics (Emerging Technology in Military)	1570754619	Energy Efficient Drone Deployment with Optimized Path-planning in Post-Disaster Environment	Mohtasin Golam (Kumoh National Institute of Technology (KIT) & IT Convergence, Korea (South)); Rubina Akter (Kumoh National Institute of Technology & Networked Systems Laboratory, Korea (South)); Jae-Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-A:	The 3rd Joint International Workshop on Military Informatics (Emerging Technology in Military)	1570754662	CNN-based Burst Signal Detection with Covariance Matrix	Dongho Seo and Jiyeon Park (Hanyang University, Korea (South)); Sreeraj Rajendran and Sofie Pollin (KU Leuven, Belgium); Haewoon Nam (Hanyang University, Korea (South))
Worksh op VII-A:	The 3rd Joint International Workshop on Military Informatics (Emerging Technology in Military)	1570754696	Doppler Radar-based Real-Time Drone Surveillance System Using Convolution Neural Network	Rubina Akter (Kumoh National Institute of Technology & Networked Systems Laboratory, Korea (South)); Mohtasin Golam (Kumoh National Institute of Technology (KIT) & IT Convergence, Korea (South)); Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-B:	The 3rd Joint International Workshop on Military Informatics (IoT for Military and Logistics)	1570746064	FedRC: A Federated Learning-Based Roadside Computing Paradigm Through the Facilitation of Internet of Drones	Anik Islam and Soo Young Shin (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Workshop VII-B:	The 3rd Joint International Workshop on Military Informatics (IoT for Military and Logistics)	1570750127	Dynamic VRP Optimization Using Discrete PSO in Edge Computing Environment	Philip T. Daely (Kumoh National Institute of Technology, Korea (South) & Institut Teknologi Telkom Surabaya, Indonesia); Yohanna Jayanti Aruan, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Workshop VII-B:	The 3rd Joint International Workshop on Military Informatics (IoT for Military and Logistics)	1570752777	Countering Attacks in IN-Vehicle Network: An Evaluation of Machine Learning Algorithms	Goodness Oluchi Anyanwu, Cosmas Ifeanyi Nwakanma, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Workshop VII-B:	The 3rd Joint International Workshop on Military Informatics (IoT for Military and Logistics)	1570754239	Impact of Task Splitting on the Delay Performance of Task Offloading in the IoT-enabled Fog Systems	Tran Hoa and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Workshop VII-B:	The 3rd Joint International Workshop on Military Informatics (IoT for Military and Logistics)	1570756553	A Survey on Low Latency Blockchain Architectures for Industrial Networks	Ikechi Igboanusi, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Workshop VII-C:	The 3rd Joint International Workshop on Military Informatics (Military Civil IT Convergence)	1570740940	Stabilizing On-chip Secure Key Generation Using RO-PUF	Toan Van Tran, Quang Kien Trinh and Van-Phuc Hoang (Le Quy Don Technical University, Vietnam)
Workshop VII-C:	The 3rd Joint International Workshop on Military Informatics (Military Civil IT Convergence)	1570749216	Design and Implementation of Low-Cost Fog Computing Architecture for IoT-Based Applications	Ahmad Zainudin, Cosmas Ifeanyi Nwakanma, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Workshop VII-C:	The 3rd Joint International Workshop on Military Informatics (Military Civil IT Convergence)	1570751860	DB-BiLSTM: Euclidean Distance-Based Sensor Data Prediction for IoT Applications	Made Adi Paramartha Putra (Kumoh National Institute of Technology & IT Convergence Engineering, Korea (South)); Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, Korea (South))
Workshop VII-C:	The 3rd Joint International Workshop on Military Informatics (Military Civil IT Convergence)	1570754461	Optimizing Multibit Spread Spectrum Audio Watermarking for Internet of Things	Revin Naufal Alief, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op VII-C:	The 3rd Joint International Workshop on Military Informatics (Military Civil IT Convergence)	1570756590	Overview of ICT Convergence Specialized Research Center in South Korea	Arslan Musaddiq (Kumoh National Institute of Technology, Korea (South)); Tariq Rahim (Kumoh National Insitute of Technology, Korea (South)); Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-C:	The 3rd Joint International Workshop on Military Informatics (Military Civil IT Convergence)	1570756691	Internet of Things for Smart Manufacturing: A Review of Benefits and Challenges	Vivian Ukamaka Ihekoronye, Cosmas Ifeanyi Nwakanma, Goodness Oluchi Anyanwu, Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-D:	The 3rd Joint International Workshop on Military Informatics (Military communication and Network)	1570742558	On the Reliability Evaluation in Downlink VLC NOMA Systems	Won Jae Ryu, Jae Woo Kim and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-D:	The 3rd Joint International Workshop on Military Informatics (Military communication and Network)	1570754236	A Small and Angle-Diversity Antenna Mountable for the Small Drone	Sungtek Kahng (University of Incheon, Korea (South)); Yejune Seo (Inchoen National University, Korea (South)); Ye jin Lee, Munsu Jeon, Junghyun Cho and Ji Yeon Jang (Incheon National University, Korea (South)); Changhyeong Lee (Korea Institute of Machinery & Materials, Korea (South))
Worksh op VII-D:	The 3rd Joint International Workshop on Military Informatics (Military communication and Network)	1570754669	NOMA-Based CRDSA with Access Control for Next Generation IoT Networks	I Nyoman Apraz Ramatryana and Soo Young Shin (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-D:	The 3rd Joint International Workshop on Military Informatics (Military communication and Network)	1570754753	The Design of The Emerging 5G Using Hybrid GPON and XGS-PON Technology	Yohanna Jayanti Aruan (Kumoh National Institute of Technology, Korea (South)); Philip T. Daely (Kumoh National Institute of Technology, Korea (South) & Institut Teknologi Telkom Surabaya, Indonesia); Gabriel Avelino R Sampedro (Kumoh National Institute of Technology, Korea (South) & National University, Philippines); Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
Worksh op VII-D:	The 3rd Joint International Workshop on Military Informatics (Military communication and Network)	1570756543	Introducing 5G+ (28GHz) mmWave Campus Test-bed	Tariq Rahim, Arslan Musaddiq, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op VII-D:	The 3rd Joint International Workshop on Military Informatics (Military communication and Network)	1570757628	Encrypted Traffic Classification: An Overview	Syifa Maliah Rachmawati, Dong Seong Kim and Jae-Min Lee (Kumoh National Institute of Technology, Korea (South))
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570738467	On the Formulation of Boundary Layer Functions	Assiya Zhumanazarova and Young Im Cho (Gachon University, Korea (South))
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570739983	Nasolabial wrinkle segmentation based on Nested Convolutional Neural Network	Sabina Umirzakova (Sonnams, Korea (South)); Taeg Keun Whangbo (Gachon University, Korea (South))
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570740621	VR content for Non contact job training and experience	Dayeon Lee, Incheol Jeong, Jongwon Lee, JungYoon Kim and Jinsoo Cho (Gachon University, Korea (South))
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570740724	The deep learning method for predict beck's depression inventory score using EEG	Min Kang, SeoHyun Oh, KyoungSu Oh, Seokhwan Kang and Youngho Lee (Gachon University, Korea (South))
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570749254	Emotion Detection and Analysis from Facial Image using Distance between Coordinates Feature	Jin Hee Bae, Minwoo Kim and JoonS Lim (Gachon University, Korea (South))
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570749661	Deep learning-based automatic brain metastatic detection and treatment assesment system using 3D MRI	Ye Rang Park, Young Jae Kim and Kwang Gi Kim (Gachon University, Korea (South))
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570749807	Selecting a Suitable Feature Subset for Classification using Multi-Agent Reinforcement Learning	Minwoo Kim, Jin Hee Bae and JoonS Lim (Gachon University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op VIII-A:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570752512	Development of Online Service for Brain Disease Prediction Using Machine Learning	Batzaya Tuvshinjargal and Heejoung Hwang (Gachon University, Korea (South))
Worksh op VIII-B:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570754177	Research on a temperature control system using the KNN algorithm	Wonjun Jeong and Seok Hee Oh (Gachon University, Korea (South))
Worksh op VIII-B:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570754204	Digital Twin Expression System Based on Metaverse	Yiqian Han (Gachon University, China); Seok Hee Oh (Gachon University, Korea (South))
Worksh op VIII-B:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570754228	The Prediction Model for Classification of COVID-19 Infected Patients Using Vital Sign	Se-Min Hyun, Tae-ho Hwang and KangYoon Lee (Gachon University, Korea (South))
Worksh op VIII-B:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570754231	Deep vein thrombosis detection based on deep learning for CT images	Jae Won Seo (Gachon Advanced Institute for Health Sciences and Technology (GAIHST), Gachon University, Korea (South)); Young Jae Kim and Kwang Gi Kim (Gachon University, Korea (South))
Worksh op VIII-B:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570754580	Parsimonious Approach to in Analyzing Brainwaves for VR Users	Gi Sung Oh and Seok Hee Oh (Gachon University, Korea (South))
Worksh op VIII-B:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570754609	3D Volume Reconstruction from MRI Slices based on VTK	Jakhongir Asadulla ugli Nodirov, Akmalbek Abdusalomov and Taeg-Keun Whangbo (Gachon University, Korea (South))
Worksh op VIII-B:	The 4th Workshop on Advances in Convergence of ICT and Brain Science for Better Health (ACIBS)	1570755691	A Study on the Content of Mental and Physical Stability Game in Virtual Reality through EEG Detection	Jongwon Lee, Dayeon Lee, Incheol Jeong and Jinsoo Cho (Gachon University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op X:	5G+ and 6G R&D in ETRI	1570746063	Enhanced Resource Allocation Method for 5G V2X Communications	Taehyoung Kim (Soonchunhyang University, Korea (South)); Gosan Noh (Electronics and Telecommunications Research Institute, Korea (South)); Junhyeong Kim and Hee Sang Chung (ETRI, Korea (South)); Ilgyu Kim (ETRI of KOREA, Korea (South))
Worksh op X:	5G+ and 6G R&D in ETRI	1570748201	Beam Management for IAB Network in 5G-Advanced Wireless Communication Systems	Hoondong Noh (Electronics and Telecommunications Research Institute, Korea (South)); Moon-Sik Lee (Electronics and Telecommunications Research Institute & Stanford University, Korea (South))
Worksh op X:	5G+ and 6G R&D in ETRI	1570748235	Coded multicarrier systems for high mobility environments in 30 GHz band	Wooram Shin (Electronics and Telecommunications Research Institute & Korea Advanced Institute of Science and Technology, Korea (South)); Kyeongpyo Kim (Electronics and Telecommunications Research Institute, Korea (South)); Kapseok Chang (ETRI, Korea (South)); Young-Jo Ko (Electronics and Telecommunications Research Institute, Korea (South))
Worksh op X:	5G+ and 6G R&D in ETRI	1570748540	Structure of UAV-based Emergency Mobile Communication Infrastructure	JungSook Bae (ETRI, Korea (South))
Worksh op X:	5G+ and 6G R&D in ETRI	1570749763	Performance Evaluation on Optically Disaggregated Memory Architecture	Jongtae Song and Jiwook Youn (ETRI, Korea (South)); Dae-ub Kim (Electronics and Telecommunications Research Institute (ETRI) & Chungnam National University, Korea (South)); Kyeong-Eun Han (ETRI, Korea (South)); Joon Ki Lee (Electronics and Telecommunications Research Institute, Korea (South))
Worksh op X:	5G+ and 6G R&D in ETRI	1570751845	Nonbinary Polar Codes Constructions Based on k-means Clustering	Giyeon Park, Ok-Sun Park and Gweondo Jo (ETRI, Korea (South)); Hossein Rezaei, Vismika Ranasinghe and Nandana Rajatheva (University of Oulu, Finland)
Worksh op X:	5G+ and 6G R&D in ETRI	1570754686	Performance analysis of Access Point Switch ON/OFF schemes for Cell-free mmWave massive MIMO UDN systems	Soojung Jung and Seung-Eun Hong (ETRI, Korea (South))
Worksh op XI:	International Workshop on Internet of Energy	1570762058	Comparison of Different Methods to Estimate Blood Oxygen Saturation using PPG	Chowdhury Azimul Haque, M Shifat Hossain, Tae-Ho Kwon and Ki-Doo Kim (Kookmin University, Korea (South))
Worksh op XI:	International Workshop on Internet of Energy	1570762059	Anomaly Detection in Semiconductor Cleanroom Using Isolation Forest	Israt Jahan, Md Alam, Faisal Ahmed and Yeong Min Jang (Kookmin University, Korea (South))
Worksh op XI:	International Workshop on Internet of Energy	1570762060	Design and Implementation of Rolling Shutter MIMO-OFDM scheme for Optical Camera Communication system	Huy Nguyen and Yeong Min Jang (Kookmin University, Korea (South))
Worksh op XI:	International Workshop on Internet of Energy	1570762061	Current Challenges in Optical Vehicular Modulation Techniques	Md. Osman Ali, Faisal Ahmed, Md. Shahjalal, Md Rahman and Yeong Min Jang (Kookmin University, Korea (South))

Session NO.	Session Name	Paper No.	Title	Authors with affiliation and country
Worksh op XII:	6G Mobile Communication	1570749831	Low-Complexity Passive Beamforming for IRS-Aided Uplink NOMA	Jihyun Choi, Luiggi Cantos and Yun Hee Kim (Kyung Hee University, Korea (South))
Worksh op XII:	6G Mobile Communication	1570750034	Wireless Infrastructure Drone based on NR-U: A Perspective	Rojeena Bajracharya (Kyung Hee University, S. Korea); Rakesh Shrestha (Yonsei University, Korea (South)); Haejoon Jung (Kyung Hee University, Korea (South))
Worksh op XII:	6G Mobile Communication	1570753718	Multi-Device Charging RIS-Aided Wireless Power Transfer Systems	Nguyen Minh Tran, Amri Muhammad Miftahul and Je Hyeon Park (Sungkyunkwan University, Korea (South)); Dong In Kim (Sungkyunkwan University (SKKU), Korea (South)); Kae Won Choi (Sungkyunkwan University, Korea (South))
Worksh op XII:	6G Mobile Communication	1570753743	Classical Capacity Regions for Generalized Pauli Channels	Junaid ur Rehman, Kyesan Lee and Hyundong Shin (Kyung Hee University, Korea (South))
Worksh op XII:	6G Mobile Communication	1570753755	Quantum Pulse Coding for Rabi And Ramsey Evolution on IBM Armonk	Muhammad Asad Ullah and Ahmad Farooq (Kyung Hee University, Korea (South)); Youngmin Jeong (Samsung Electronics, Korea (South)); Hyundong Shin (Kyung Hee University, Korea (South))
Worksh op XII:	6G Mobile Communication	1570754102	Bistatic Backscatter NOMA with Transmit and Receive Beamforming	Gerardo Sacarello, Muhammad Awais and Yun Hee Kim (Kyung Hee University, Korea (South))
Worksh op XII:	6G Mobile Communication	1570754673	Identification of Mobile Traffic Characteristics in University Area with Decision Tree Learning Model	Young-Jun Kim and Een-Kee Hong (Kyunghee University, Korea (South))
Worksh op XII:	6G Mobile Communication	1570756558	Multivariate Deep Learning Model For Workload Prediction In Cloud Computing	Minh Dang and Myungsik Yoo (Soongsil University, Korea (South))