

## Oral Session

Seq	#	Title	Authors with affiliation and country
Oral Session 1A: Information and Communications Technology I			Session Chair: Dr. Riri Fitri Sari (Universitas Indonesia, Indonesia)
1	1570698898	Coherent Ising Machine Based Optimal Channel Allocation and User Pairing in NOMA Networks	Teppei Otsuka, Komei Kurasawa, Zengchao Duan, Aohan Li and Koya Sato (Tokyo University of Science, Japan); Hiroki Takesue (NTT, Japan); Kazuyuki Aihara (The University of Tokyo, Japan); Kensuke Inaba (NTT, Japan); Mikio Hasegawa (Tokyo University of Science, Japan)
2	1570699170	Intrusion Measurement and Detection in LAN Using Protocol-Wise Associative Memory	Yuwei Sun, Hideya Ochiai and Hiroshi Esaki (The University of Tokyo, Japan)
3	1570700740	Deep Learning Based Hybrid Multiple Access Consisting of SCMA and OFDMA Using User Position Information	Yuta Kumagai, Naoya Gonda, Yukiko Shimbo, Hirofumi Suganuma and Fumiaki Maehara (Waseda University, Japan)
4	1570709745	Design and implementation of a reference model between services and AI-assisted network	Hideki Yamamoto and Norio Kondo (Oki Electric Industry Co., Ltd., Japan); Tetsu Joh (KDDI Research, Inc., Japan); Takayuki Warabino (KDDI Corporation, Japan); Yusuke Suzuki (KDDI Research, Inc., Japan); Genichi Mori (KDDI Corporation, Japan); Masahiro Jibiki (National Institute of Information and Communications Technology, Japan)
5	1570715133	An Energy Efficient Sensor Duty Cycling for Smart Home Networks	Murad Khan (Kyungpook National University & Sarhad University of Science and Technology, Korea (South)); Junho Seo and Dongkyun Kim (Kyungpook National University, Korea (South))

Oral Session 1B: AI for Image Processing and Multimedia I			Session Chair: Prof. Wen-Cheng Lai (National Taiwan University of Science and Technology, Taiwan)
1	1570698136	Enhanced Machine Learning-based Inter Coding for VVC	Martin Benjak, Holger Meuel, Thorsten Laude and Jörn Ostermann (Leibniz Universität Hannover, Germany)
2	1570698319	Facial Emotion Classification In The Wild Using Bidirectional Convolutional Neural Network	Jiaxu Liu (26 Barry Drive, Lena Karmel & Australian National University, Australia)
3	1570698575	Distortion based Watermark Extraction Technique Using 1D CNN	Yuto Matsunaga, Naofumi Aoki and Yoshinori Dobashi (Hokkaido University, Japan); Tetsuya Kojima (National Institute of Technology, Tokyo College, Japan)
4	1570703032	Learning to Recognize Masked Faces by Data Synthesis	Ziyan Wang (Nanyang Technological University, Singapore); Tae Soo Kim (Johns Hopkins University, USA)

Oral Session 1C: AI for Data Analysis, Big Data and Cloud I			Session Chair: Dr. Aji Prasetya Wibawa (Universitas Negeri Malang, Indonesia)
1	1570698676	Differentially-Private Text Generation via Text Preprocessing to Reduce Utility Loss	Taisho Sasada (Nara Institute of Science and Technology & Graduate School of Science and Technology, Japan); Masataka Kawai, Doudou Fall, Yuzo Taenaka and Youki Kadobayashi (Nara Institute of Science and Technology, Japan)
2	1570701668	Parallelization of Levelset-based Text Baseline Detection in Document	Hyeonwoo Jeong (Korea University of Technology and Education, Korea (South)); Ye-Chan Choi (Koreatech, Korea (South)); Kang-Sun Choi (Korea University of Technology and Education, Korea (South))
3	1570703565	Min-Max Backpropagation Neural Network to Forecast e-Journal Visitors	Aji P Wibawa (Indonesia & Universitas Negeri Malang, Indonesia); Zahra Nabila Izdihar and Agung Utama (Universitas Negeri Malang, Indonesia); Leonel Hernandez (ITSA University, Colombia & Corporación Universitaria Reformada CUR, Colombia); Haviluddin Haviluddin (Universitas Mulawarman, Indonesia)
4	1570696582	Learning Human Vehicle Interactions using Simulated Data	Chuyu Liu (Rensselaer Polytechnic Institute, USA); Tae Soo Kim (Johns Hopkins University, USA)
5	1570710443	Effects of annotation quality on model performance	Khaled Alhazmi (King Abdulaziz City for Science and Technology, Saudi Arabia & UCSD, USA); Walaa Alsumari (King Abdulaziz City for Science and Technology, Saudi Arabia); Indrek Seppo, Lara Pod and Martin Simon (Marduk Technologies, Estonia)

Oral Session 2A: Information and Communications Technology II			Session Chair: Prof. Ohyun Jo (Chungbuk National University, Korea)
1	1570701492	Two-Stage Classification Technique for Malicious DNS Identification	Gabriel Amaizu, Danielle Jaye S. Agron, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
2	1570701659	High-speed Optimization of User Pairing in NOMA System Using Laser Chaos Based MAB Algorithm	Zengchao Duan, Norihiro Okada and Aohan Li (Tokyo University of Science, Japan); Makoto Naruse and Nicolas Chauvet (The University of Tokyo, Japan); Mikio Hasegawa (Tokyo University of Science, Japan)
3	1570701699	Dynamic Channel Bonding Using Laser Chaos Decision Maker in WLANs	Hiroshi Kanemasa and Aohan Li (Tokyo University of Science, Japan); Makoto Naruse and Nicolas Chauvet (The University of Tokyo, Japan); Mikio Hasegawa (Tokyo University of Science, Japan)
4	1570704878	A Data Augmented Bayesian Network for Node Failure Prediction in Optical Networks	Dibakar Das (IIITB, India); Mohammad Fahad Imteyaz (Tejas Networks, India); Jyotsna Bapat (International Institute of Information Technology, India); Debabrata Das (International Institute of Information Technology - Bangalore, India)
5	1570709740	Network Traffic Classification Using Ensemble Learning in Software-Defined Networks	Won Ju Eom, Yeong-Jun Song, Changhoon Park, Jeong-Keun Kim, Geon-Hwan Kim and You-Ze Cho (Kyungpook National University, Korea (South))

Oral Session 2B: AI for Image Processing and Multimedia II			Session Chair: Dr. Žiga Emeršič (University of Ljubljana, Slovenia)
1	1570698729	Multi-Scale Proposal Regions Fusion Network for Detection and 3D Localization of the Infected Trees	Junling Hou, Weihong Li, Weiguo Gong and Zixu Wang (Chongqing University, China)
2	1570698730	SPB-YOLO: An Efficient Real-Time Detector For Unmanned Aerial Vehicle Images	Xinran Wang, Weihong Li, Wei Guo and Kun Cao (Chongqing University, China)
3	1570698955	Online Fall Detection Using Attended Memory Reference Network	Sunah Min (ETRI, Korea (South)); Jinyoung Moon (Electronics and Telecommunication Research Institute(ETRI), Korea (South))
4	1570700751	Human Sentiments and Associated Physical Actions Detection in Disasters with Deep Learning	Muhammad Sadiq Amin (Tongmyoung University Busan South Korea, Korea (South)); Huynsik Ahn (Tongmyoung University, Korea (South)); Young-Bok Choi (Tongmyoung University, Korea (South))
5	1570712536	Object Recognition and Distance Extraction System Using Camera	Yoon Young Jin (University of Kyung Pook, Korea (South))

Oral Session 2C: AI for Data Analysis, Big Data and Cloud II			Session Chair: Dr. Bhupesh Mishra (University of Bradford, United Kingdom)
1	1570705783	Bug Report Summarization using Believability Score and Text Ranking	Youngji Koh and Sungwon Kang (KAIST, Korea (South)); Seonah Lee (Gyeongsang National University, Korea (South))
2	1570705992	Juris2vec: Building Word Embeddings from Philippine Jurisprudence	Elmer C Peramo (Advanced Science and Technology Institute & Department of Science and Technology, Philippines)
3	1570706083	Recursive Feature Elimination for Machine Learning-based Landslide Prediction Models	Kusala Munasinghe (Sri Lanka Technological Campus & University of Sri Jayewardenepura, Sri Lanka); Piyumika Karunanayake (General Sir John Kotelawala Defence University, Sri Lanka)
4	1570706367	Subject Authentication using Time-Frequency Image Textural Features	Turky Al Otaiby (King ABDULAZIZ CITY for Science and Technology, Saudi Arabia)

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Oral Session 3A: Information and Communications Technology III			Session Chair: Prof. Mikio Hasegawa (Tokyo University of Science, Japan)
1	1570707037	Deep Q-learning for 5G network slicing with diverse resource stipulations and dynamic data traffic	Debaditya Shome (KIIT University, India); Ankit Kudeshia (KIIT University, Bhubaneswar, India)
2	1570710406	Analysis on the channel prediction accuracy of deep learning-based approach	Woo-Sung Son (Kyungpook National University, Daegu, Republic of Korea, Korea (South)); Dong Seog Han (Kyungpook National University, Korea (South))
3	1570709554	Machine Learning-Based Service Differentiation in the 5G Core Network	Mohamad Rimas Mohamad Anfar and Joyce Mwangama (University of Cape Town, South Africa)
4	1570710852	RNN Based Optimal Sensing Schedule Control for Wireless Sensor Networks	Seung-Hee Choi and Sang-jo Yoo (Inha University, Korea (South))

5	1570701081	Ego Network-based Virtual Network Embedding Scheme for Revenue Maximization	Ihsan Ullah, Hyun-Kyo Lim and Youn-Hee Han (Korea University of Technology and Education, Korea (South))
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<b>Oral Session 3B: AI for Image Processing and Multimedia III</b>			<b>Session Chair: Prof. Yoonhee Han (Korea Tech. Education Univ., Korea)</b>
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1	1570701401	Fast Temporal Information Retrieval In Videos With Visual Memory	Jungkyoo Shin (ETRI, Korea (South)); Jinyoung Moon (Electronics and Telecommunication Research Institute(ETRI), Korea (South))
2	1570701857	A Deep Learning based Scene Recognition Algorithm for Indoor Localization	Boney Labinghisa and Dong Myung Lee (Tongmyong University, Korea (South))
3	1570703546	Recognition of Traffic Signs with Artificial Neural Networks: A Novel Dataset and Algorithm	Abdulrahman Kerim (Lancaster University, United Kingdom (Great Britain)); Mehmet Onder Efe (Hacettepe University, Turkey)
4	1570704621	An Approach to Run Pre-Trained Deep Learning Models on Images of Different Spectral Resolution	Ijaz Ahmad and Seokjoo Shin (Chosun University, Korea (South))
5	1570706265	Small Object Detection using Context and Attention	Jeongseon Lim (UST, Korea (South)); Marcella Astrid (University of Science and Technology, Korea (South)); Hyunjin Yoon (ETRI & University of Science and Technology, Korea (South)); Seung-Ik Lee (Electronics and Telecommunications Research Institute, Korea (South))

<b>Oral Session 3C: AI for Data Analysis, Big Data and Cloud III</b>			<b>Session Chair: Prof. Chaehan So (Yonsei University, Korea)</b>
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1	1570706556	Personalized Education Using Machine Learning Recommendation System	Ossama Hashem Khamis Embarak (Higher College of Technology & Heriot-Watt University, United Arab Emirates)
2	1570710367	Empirical Measurement of Performance Maintenance of Gradient Boosted Decision Tree Models for Malware Detection	Robert Steele (Capitol Technology University, USA)
3	1570698514	Exploring Meta Learning: Parameterizing the Learning-to-learn Process for Image Classification	Chaehan So (Yonsei University, Korea (South))
4	1570711254	An Generational SDE based Indicator for Multi and Many-objective optimization	Jamshid Yusupov and Vikas Palakonda (Kyungpook National University, Korea (South)); Mallipeddi Rammohan, Mr. (Nanyang Technological University & NTU, Singapore); Samira Ghorbanpour and Kalyana Veluvolu (Kyungpook National University, Korea (South))
5	1570703931	Globally Informative Thompson Sampling for Structured Bandit Problems with Application to CrowdTranscoding	Xingchi Liu and Mahsa Derakhshani (Loughborough University, United Kingdom (Great Britain)); Ziming Zhu (Toshiba Research Europe Ltd, United Kingdom (Great Britain)); Sangarapillai Lambotharan (Loughborough University, United Kingdom (Great Britain))

<b>Oral Session 4A: AI for eHealth and Neuroscience I</b>			<b>Session Chair: Dr. Michael Tee (University of the Philippines Manila, Philippines)</b>
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1	1570704318	Strabismus Classification using Convolutional Neural Networks	Donghwan Kim (Korea (South)); Jaehan Joo and Guohua Zhu (Pusan National University, Korea (South)); Jeongbin Seo (PUSAN National University, Korea (South)); Jaeseung Ha and Suk Chan Kim (Pusan National University, Korea (South))
2	1570705490	Determining factors contributing to the psychological impact of the COVID-19 Pandemic using machine learning	Geoffrey A. Solano, Carlos Alfonso V. Palattao, Cherica A. Tee and Michael L. Tee (University of the Philippines Manila, Philippines)
3	1570706280	Gene Expression Based Tumor Purity Estimation and Individual-Specific Survival Tool in Skin Cutaneous Melanoma	Marc Jermaine Pontiveros (University of the Philippines Manila & University of the Philippines Diliman, Philippines); Joey Mark S. Diaz (University of Leeds, United Kingdom (Great Britain)); Geoffrey A. Solano (University of the Philippines Manila, Philippines)
4	1570709190	An Efficient Deep Neural Network Binary Classifier for Alzheimer's Disease Classification	Rukesh Prajapati and Uttam Khatri (Chosun University, Nepal); Goo-Rak Kwon (Chosun University, Korea (South))
5	1570706661	Pre-Trained Deep Convolutional Neural Network for Detecting Malaria on the Human Blood Smear Images	I Gede Susrama Mas Diyasa (Universitas Pembangunan Nasional Veteran Jawa Timur, Indonesia)

Oral Session 4B: AI for Image Processing and Multimedia IV			Session Chair: Prof. Wooyeol Choi (Chosun University, Korea)
1	1570706488	An Empirical Comparison of BERT, RoBERTa, and Electra for Fact Verification	Muchammad Naseer, Muhamad Asvial and Riri Fitri Sari (Universitas Indonesia, Indonesia)
2	1570706521	A Design of Learning based Human Positioning Algorithm using Images	Tae Wan Kim and Dong Myung Lee (Tongmyong University, Korea (South))
3	1570706831	Comparison of CNN-based Speech Dereverberation using Neural Vocoder	Chanjun Chun (Chosun University, Korea (South)); Kwang Myung Jeon and Chaejun Leem (IntFlow Co., Ltd., Korea (South)); Bumshik Lee and Wooyeol Choi (Chosun University, Korea (South))
4	1570709604	Multi-View 3D Human Pose Estimation with Self-Supervised Learning	Inho Chang (Korea Electronics Technology Institute, Korea (South)); Min-Gyu Park and JeWoo Kim (Korea Electronic Technology Institute (KETI), Korea (South)); Juhong Yoon (Korea Electronics Technology Institute, Korea (South))
5	1570711389	Deep Iris Feature Extraction	Andrej Hafner (University of Ljubljana, Slovenia); Peter Peer (University of Ljubljana, Faculty of Computer and Information Science, Slovenia); Žiga Emeršič (University of Ljubljana & Faculty of Computer and Information Science, Slovenia); Matej Vitek (University of Ljubljana, Faculty of Computer and Information Science, Slovenia)

Oral Session 4C: AI Applications for Networking and IoT I			Session Chair: Prof. Jonathan Pan (Nanyang Tech. University, Singapore)
1	1570698337	IoT Network Behavioral Fingerprint Inference with Limited Network Traces for Cyber Investigation	Jonathan Pan (Nanyang Technological University, Singapore)
2	1570698902	Optimal Partitioning of Distributed Neural Networks for Various Communication Environments	Jonghun Jeong and Hoeseok Yang (Ajou University, Korea (South))
3	1570698940	IoT-Based Vibration Sensor Data Collection and Emergency Detection classification using Long Short Term Memory (LSTM)	Cosmas Ifeanyi Nwakanma, Fabliha Bushra Islam, Mareska Pratiwi Maharani, Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, Korea (South))
4	1570700609	An Optimal QoS Multicast Routing Protocol in IoT-Enabling Cognitive Radio MANETs: A Deep Q-Learning Approach	Thong Nhat Tran, Nguyen Toan Van, Kyusung Shim and Beongku An (Hongik University, Korea (South))
5	1570706834	Integrated System of Vehicle and Passenger Manifests in Port Based on IoT	I Gede Susrama Mas Diyasa (Universitas Pembangunan Nasional Veteran Jawa Timur, Indonesia)

Oral Session 5A: AI Applications for Mobile Communication			Session Chair: Dr. Toan-Van Nguyen (Hongik University, Korea)
1	1570701040	A Study on Attack Pattern Generation and Hybrid MR-IDS for In-Vehicle Network	DongMug Kang, Sang Hun Yoon and Dae Kyo Shin (Korea Electronics Technology Institute, Korea (South)); Young Yoon and Hyeon Min Kim (Hongik University, Korea (South)); Soo Hyun Jang (Korea Electronics Technology Institute, Korea (South))
2	1570701528	Controller module implementation to reduce interrupt in CNPC uplink	Gwonhan Mun (Electronics and Telecommunications Research Institute, Korea (South)); Tae Chul Hong (ETRI, Korea (South)); Daeho Kim (Korea (South))
3	1570703397	Feature-Based Deep LSTM Network for Indoor Localization Using UWB Measurements	Alwin Poulouse and Dong Seog Han (Kyungpook National University, Korea (South))
4	1570706410	DNN-based Wi-Fi Positioning in 3GPP Indoor Office Environment	Sung Hyun Oh and Jeong Gon Kim (Korea Polytechnic University, Korea (South))
5	1570711499	Q-learning based Stepwise Routing Protocol for Flying Ad Hoc Networks	JaeWon Lim and Young-Bae Ko (Ajou University, Korea (South))

Oral Session 5B: AI for Image Processing and Multimedia V			Session Chair: Prof. Deepak Mishra (Indian Institute of Space Science & Technology, India)
1	1570709731	Extensive Huffman-tree-based Neural Network for the Imbalanced Dataset and Its Application in Accent Recognition	Jeremy Merrill and Yu Liang (University of Tennessee at Chattanooga, USA); Dalei Wu (The University of Tennessee at Chattanooga, USA)
2	1570711272	Verbal Abuse Classification Using Multiple Deep Neural Networks	Hyunju Park (Gwangju Institute of Science and Technology, Korea (South)); Hong Kook Kim (Gwangju Institute of Science and Technology (GIST), Korea (South))

3	1570711978	Positional estimation of invisible drone using acoustic array with A-shaped neural network	Jongsik Ahn and Min Young Kim (Kyungpook National University, Korea (South))
4	1570712008	Volumetric Human Reconstruction from a Single Depth Map	Ju-Mi Kang (Korea Electronic Technology Institute (KETI), Korea (South)); Juhong Yoon (Korea Electronics Technology Institute, Korea (South)); Minhoo Lee, JeWoo Kim and Min-Gyu Park (Korea Electronic Technology Institute (KETI), Korea (South))

<b>Oral Session 5C: AI Applications for Networking and IoT II</b>			<b>Session Chair: Dr. Yuwei Sun (The University of Tokyo, Japan)</b>
1	1570701467	Relay Nodes Selection Using Reinforcement Learning	Haesik Kim (VTT Technical Research Centre of Finland, Finland); Takeo Fujii (The University of Electro-Communications, Japan); Kenta Umebayashi (Tokyo University of Agriculture and Technology, Japan)
2	1570701607	Reinforcement Learning for Random Access in Multi-cell Networks	Dongwoo Lee, Yu Zhao and Joohyun Lee (Hanyang University, Korea (South))
3	1570701614	Prioritized-MAC Model for Intelligent UAV-to-BS Communication in Industrial-WSN Systems	Williams-Paul Nwadiugwu (Kumoh National Institute of Technology & ICT Convergence Research Center, School of Electronic Engineering, Korea (South)); Seung-Hwan Kim, Jae-Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, Korea (South))
4	1570711628	Joint Communication and Computing Resource Allocation over Cell-Free Massive MIMO-enabled Mobile Edge Network: A Deep Reinforcement Learning-based Approach	Fitsum Tilahun (Korea University, Korea (South)); Ameha Tsegaye Abebe (Samsung Electronics, Korea (South)); Chung G. Kang (Korea University, Korea (South))

<b>Oral Session 6A: AI Foundation</b>			<b>Session Chair: Prof. Hirotada Honda (Toyo university, Japan)</b>
1	1570698354	A novel framework for reservoir computing with inertial manifolds	Hirotada Honda (Toyo University, Japan)
2	1570698733	Sparse Autoencoder for Sparse Code Multiple Access	Medini Singh, Deepak Mishra and Vani Devi M (IIST, India)
3	1570699618	Reverse Engineering the Hamming Code with Automatic Graph Learning	Noah B Jacobsen (Mission Solutions Group, Inc., USA)
4	1570701029	Joint Demodulation and Decoding with Multi-Label Classification Using Deep Neural Networks	Imtiaz Ahmed (Howard University, USA); Wenjie Xu (Marshall University, USA); Ramesh Annavajjala (Northeastern University, USA); Wook-Sung Yoo (Marshall University, USA)
5	1570711358	A study on the selection of future AI+X promising fields and the direction to strengthen competitiveness	Jee-Sun Oh (Korea Advanced Institute of Science and Technology, Korea (South))

<b>Oral Session 6B: AI for Energy, Computer Systems and Semiconductor Device</b>			<b>Session Chair: Prof. Seonah Lee (Gyeongsang National University, Korea)</b>
1	1570698058	A Method of Delivering Fuel to Telecommunication Exchange Buildings in Disaster Response	Zhao Wang, Yuusuke Nakano, Keishiro Watanabe and Ken Nishimatsu (NTT, Japan)
2	1570701554	Timing diagram for CNPC interleaver implementation on FPGA	Gwonhan Mun (Electronics and Telecommunications Research Institute, Korea (South)); Kunseok Kang (ETRI, Korea (South)); Daeho Kim (Korea (South))
3	1570704456	CNPC deinterleaver implementation to increase hardware logic utilization on FPGA	Gwonhan Mun and Hee Wook Kim (Electronics and Telecommunications Research Institute, Korea (South)); Daeho Kim (Korea (South))
4	1570704322	A Deep Learning Module Design for Workspace Identification in Manufacturing Industry	Jeongsu Kim and Dong Myung Lee (Tongmyong University, Korea (South))
5	1570710877	Robust Shared Lateral Control for Driver Vehicle Interaction	Daijiry Narzary and Subrat Swain (Kyungpook National University, Korea (South)); Jagat Rath (Institute of Infrastructure Technology Research and Management, India); Kalyana Veluvolu (Kyungpook National University, Korea (South)); Hamid Karimi (Politecnico di Milano, Korea (South))

<b>Oral Session 6C: AI Applications for Networking and IoT III</b>			<b>Session Chair: Prof. Joohyun Lee (Hanyang University, Korea)</b>
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1	1570702948	A Deep Q-Learning Design for Energy Harvesting QoS Routing in Cognitive MANET-IoT Systems	Nguyen Toan Van, Thong Nhat Tran and Beongku An (Hongik University, Korea (South))
2	1570712807	Recognizing human activity using Deep Learning as Recurrent Neural network LSTM and WiFi Channel State Information	Sang-Chul Kim (Kookmin University, Korea (South))
3	1570713268	Principal Component Analysis Implementation for Signal Processing of Electrochemical Impedance Spectroscopy in the Detection of Fake Fingerprints	Seongsu Park (Ajou University & Realidentity Co., Ltd., Korea (South)); Ki-Hyung Kim (Ajou University, Korea (South))
4	1570708892	Rain Attenuation Characterization for 6G Terahertz Wireless Communication	Mohammad Ehatasham Shawon (Khulna University of Engineering & Technology, Bangladesh); Mostafa Zaman Chowdhury (Khulna University of Engineering & Technology, Bangladesh); Md Biplob Hossen (Khulna University of Engineering & Technology, Bangladesh); Md. Faisal Ahmed and Yeong Min Jang (Kookmin University, Korea (South))
5	1570712389	Fuzzy C-Means Clustering-Based Cooperative mMIMO-NOMA Downlink Communication for 6G Ultra-Massive Interconnectivity	Md. Shahjalal, Md. Faisal Ahmed, Md. Morshed Alam, Md. Habibur Rahman and Yeong Min Jang (Kookmin University, Korea (South))

<b>Oral Session 7A: AI for eHealth and Neuroscience II</b>			<b>Session Chair: Prof. Hieyong Jeong (Chonnam National University, Korea)</b>
1	1570698005	Classification of Metastatic Breast Cancer Cell using Deep Learning Approach	Seohyun Lee, Hyuno Kim and Hideo Higuchi (The University of Tokyo, Japan); Masatoshi Ishikawa (University of Tokyo, Japan)
2	1570701327	Consideration of Convolutional Neural Networks for Image Processing of Capillaries	Hang Nguyen Thi Phuong, Hieyong Jeong and Choonsung Shin (Chonnam National University, Korea (South))
3	1570701328	Classification of diabetic walking through machine learning: Survey targeting senior citizens	Yeoungju Woo, Pizarroso Troncoso Carlos Andres, Hieyong Jeong and Choonsung Shin (Chonnam National University, Korea (South))
4	1570701511	Low-Cost Real-time Driver Drowsiness Detection based on Convergence of IR Images and EEG Signals	Kwangju Kim (ETRI, Korea (South)); Kil-Taek Lim (Electronics and Telecommunications Research Institute, Korea (South)); Jang Woon Baek (ETRI, Korea (South)); Miyoung Shin (Kyungpook National University, Korea (South))
5	1570702471	Deep Learning Based Sentiment Analysis On COVID-19 Public Reviews	Tajebe Tsega Mengistie and Deepak Kumar (National Institute of Technology Meghalaya, India)

<b>Oral Session 7B: AI for Control and Decision Systems I</b>			<b>Session Chair: Dr. Abduladhim Ashtaiwi (American University of the Middle East, Kuwait)</b>
1	1570699391	Pedestrian Detection System with Edge Computing Integration on Embedded Vehicle	Wen Cheng Lai (National Taiwan University of Science and Technology, Taiwan)
2	1570700801	A Time-aware Data Clustering Approach to Predictive Maintenance of a Pharmaceutical Industrial Plant	Gabriele Calzavara, Eleonora Oliosi and Gianluigi Ferrari (University of Parma, Italy)
3	1570701612	Intelligent Predictive Maintenance Model for Rolling Components of a Machine based on Speed and Vibration	Baseer Ahmad (University of West of Scotland, United Kingdom (Great Britain)); Bhupesh Kumar Mishra (University of Bradford, United Kingdom (Great Britain)); Muhammad Ghufraan (Abasyn University, Pakistan); Zeeshan Pervez (University of the West of Scotland, United Kingdom (Great Britain)); Naeem Ramzan (University of West of Scotland, United Kingdom (Great Britain))
4	1570701771	ML-Based Localizing and Driving Direction Estimation System for Vehicular Networks	Abduladhim Ashtaiwi (American University of the Middle East, Kuwait)

<b>Oral Session 8A: Information and Communications Technology IV</b>			<b>Session Chair: Prof. Mostafa Zaman Chowdhury (Khulna University of Engineering &amp; Technology, Bangladesh)</b>
1	1570712365	Interference Cancellation and Proper Thresholding Using Deep Learning Method in Optical Camera Communication	Md. Faisal Ahmed, Md. Osman Ali, Md. Morshed Alam and Yeong Min Jang (Kookmin University, Korea (South))

2	1570712408	Design of MIMO C-OOK using Matched filter for Optical Camera Communication System	Huy Nguyen and Yeong Min Jang (Kookmin University, Korea (South))
3	1570712417	A New Smart-Meter Data Monitoring System based on Optical Camera Communication	Md. Osman Ali, Md. Morshed Alam and Yeong Min Jang (Kookmin University, Korea (South))
4	1570713017	IIoT Sensor Facility Monitoring and Quality Predictive Platform based on AI and Edge Computing	Sothearin Ren (Chungbuk National University, Korea (South))
5	1570712423	Ensemble Classifier Based Modulation Recognition for Beyond 5G Massive MIMO (mMIMO) Communication	Md. Habibur Rahman and Yeong Min Jang (Kookmin University, Korea (South))

Oral Session 8B: AI for Control and Decision Systems II			Session Chair: Prof. Yeong Min Jang (Kookmin University, Korea)
1	1570713009	A chemicals monitoring and prediction system in semiconductor manufacturing process using bigdata and artificial intelligence techniques	Hyung-Min Cho (Healingsoft, Korea (South))
2	1570712366	Optimal Energy Management Strategy for ESS with Day Ahead Energy Prediction	Yeong Min Jang, Md. Morshed Alam, Md. Faisal Ahmed and Md. Habibur Rahman (Kookmin University, Korea (South))
3	1570712477	Predictive Maintenance of Relative Humidity Using Random Forest Method	Aji Prihatno, Himawan Nurcahyanto and Yeong Min Jang (Kookmin University, Korea (South))
4	1570712468	Battery Management using LSTM for Manhole Underground System	Himawan Nurcahyanto, Aji Prihatno and Yeong Min Jang (Kookmin University, Korea (South))