

ICAIC2022 Detailed Program

[NOTE] All papers accepted to ICAIC 2022 will be presented in oral sessions (on-site or zoom), and there are no poster (recorded video) sessions in this conference. (Feb. 4, 2022).

Oral Sessions

Seq	#	Title	Authors with affiliation and country
Oral Session 1A: Information and Communications Technology I (February 21, 2022, Monday, 16:30-17:30, Room A/Zoom A) Chair: Prof. Wooyeol Choi (Chosun University)			
1	1570772396	Classification and Discretization of Shadowing Toward Low Storage Radio Map	Keita Katagiri (The University of Electro-Communication, Japan); Takeo Fujii (The University of Electro-Communications, Japan)
2	1570773522	Countering DNS Vulnerability to Attacks Using Ensemble Learning	Love Allen Ahakonye and Cosmas Ifeanyi Nwakanma (Kumoh National Institute of Technology, South Korea); Simeon Ajakwe (Kumoh National Institute of Technology, Gumi, South Korea); Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, South Korea)
3	1570775499	NetMD-Network Traffic Analysis and Malware Detection	Sampath Kumar Katherasala and Sri Manvith Vaddeboyina (Tata Consultancy Services, India); Ajay Therala (TATA Consultancy Services, India)
4	1570777420	Defect Information Synthesis via Latent Mapping Adversarial Networks	Seunghwan Song and Jun-Geol Baek (Korea University, South Korea)
5	1570782026	FFDNet Based Channel Estimation for Multiuser Massive MIMO System with One-Bit ADCs	Md. Habibur Rahman, Md. Shahjalal and Yeong Min Jang (Kookmin University, South Korea)

Oral Session 1B: AI for Image Processing and Multimedia I (February 21, 2022, Monday, 16:30-17:30 Room B/Zoom B) Chair: Prof. Jung Hoon Lee (Hankuk University of Foreign Studies)			
1	1570772173	iVoiding: A Thermal-Image based Artificial Intelligence Dynamic Voiding Detection System	Yu-Chen Chen (Kaohsiung Medical University, Kaohsiung, Taiwan); Jian-Ping Su (Southern Taiwan University of Science and Technology, Taiwan); Cheng Han Tsai (Southern Taiwan University of Science and Technology, Tainan, Taiwan); Ming-Che Chen and Wan-Jung Chang (Southern Taiwan University of Science and Technology, Taiwan); Wen-Jeng Wu (Kaohsiung Medical University, Kaohsiung, Taiwan)
2	1570774966	Determining Jigsaw Puzzle State from an Image based on Deep Learning	Ijaz Ahmad, Suk-seung Hwang and Seokjoo Shin (Chosun University, South Korea)
3	1570775489	Growth Estimation Sensor Network System for Aquaponics using Multiple Types of Depth Cameras	Ryota Murakami and Hiroshi Yamamoto (Ritsumeikan University, Japan)
4	1570778194	Image Synthesis with Single-type Patterns for Mixed-type Pattern Recognition on Wafer Bin Maps	Yunseon Byun (Korea University, Republic of Korea, South Korea); Jun-Geol Baek (Korea University, South Korea)
5	1570779764	Evaluating Opcodes for Detection of Obfuscated Android Malware	Saneeha Khalid (Bahria University Islamabad Pakistan, Pakistan); Faisal Bashir Hussain (Bahria University, Islamabad, Pakistan)

Oral Session 2A: Information and Communications Technology II (February 22, 2022, Tuesday, 09:30-10:50 Room A/Zoom A)
Chair: Prof. Senouci Ben (North Dakota State University)

1	1570778013	Procedural Generation of Game Levels and Maps: A Review	Tianhan Gao (Northeastern University of China, China); Jin Zhang and Qingwei Mi (Northeastern University, China)
2	1570778189	Similarity-based Local Feature Extraction for Wafer Bin Map Pattern Recognition	Jieun Kim and Jun-Geol Baek (Korea University, South Korea)
3	1570782905	Body Segmentation Using Multi-task Learning	Julijan Jug and Ajda Lampe (University of Ljubljana, Faculty of Computer and Information Science, Slovenia); Vitomir Štruc (Faculty of Electrical Engineering, University of Ljubljana, Slovenia); Peter Peer (University of Ljubljana, Faculty of Computer and Information Science, Slovenia)
4	1570779950	Aerial Supervision of Drones and Birds using Convolutional Neural Networks	Vivian Ukamaka Ihekoronye (Kumoh National Institute of Technology, South Korea); Simeon Ajakwe (Kumoh National Institute of Technology, Gumi, South Korea); Dong Seong Kim and Jae Min Lee (Kumoh National Institute of Technology, South Korea)
5	1570776329	Performance Analysis of UAV-based Array Antenna Arrangement for Target Detection	Ji-Hyeon Kim, Soon-Young Kwon and Hyoung-Nam Kim (Pusan National University, South Korea)

Oral Session 2B: AI for Image Processing and Multimedia II (February 22, 2022, Tuesday, 09:30-10:50 Room B/Zoom B)
Chair: Prof. Dong Seog Han (Kyungpook National University)

1	1570778204	Image Prediction for Lane Following Assist using Convolutional Neural Network-based U-Net	Byung Chan Choi (LIG Nex1, South Korea); Jaerock Kwon (University of Michigan - Dearborn, USA); Haewoon Nam (Hanyang University, South Korea)
2	1570779500	Forward and Backward Warping for Optical Flow-Based Frame Interpolation	Joi Shimizu, Heming Sun and Jiro Katto (Waseda University, Japan)
3	1570781325	Performance Improvement Method of the Video Visual Relation Detection with Multi-modal Feature Fusion	Kwangju Kim and Pyong-Kun Kim (ETRI, South Korea); Kil-Taek Lim (Electronics and Telecommunications Research Institute, South Korea); Jong Taek Lee (ETRI, South Korea)
4	1570781788	A high-speed driver behavior detection deep learning system using the amount of change in contrast between frames	Min Woo Yoo and Dong Seog Han (Kyungpook National University, South Korea)
5	1570781806	Intelligent Receiver for Optical Camera Communication	Ida Bagus Krishna Yoga Utama, Md Rahman and Yeong Min Jang (Kookmin University, South Korea)

Oral Session 3A: Information and Communications Technology III (February 22, 2022, Tuesday, 15:20-16:40 Room A/Zoom A)
Chair: Dr. Hui Han (Fraunhofer Institute)

1	1570780438	Interference analysis study for coexistence between C-V2X and Wi-Fi 6E in the 6GHz band	YoungWoon Kim (Soongsil University, South Korea)
2	1570780583	Neural Architecture Search for Real-Time Driver Behavior Recognition	Jaeho Seong and Dong Seog Han (Kyungpook National University, South Korea)
3	1570781477	Smart Anomaly Detection: Deep Learning modeling Approach and System Utilization Analysis	Ben Senouci (North Dakota State University (NDSU), USA); Mourad Bouache (Intel USA, USA)
4	1570781714	An Evaluation Framework for Machine Learning Methods in Detection of DoS and DDoS Intrusion	Temechu G Zewdie and Anteneh Girma (University of the District of Columbia, USA)
5	1570779278	A study on the application of mission-based cybersecurity testing and evaluation of weapon systems	Dongkyoo Shin and Ikjae Kim (Sejong University, South Korea)

Oral Session 3B: AI for Image Processing and Multimedia III (February 22, 2022, Tuesday, 15:20-16:40 Room B/Zoom B)
Chair: Dr. Eric Xue (University of Toronto)

1	1570781886	Grey Wolf Optimizer-Based Automatic Focusing for High Magnification Systems	Islam Helmy and Wooyeol Choi (Chosun University, South Korea)
2	1570780049	Research and examination on implementation of super-resolution models using deep learning with INT8 precision	Shota Hirose, Naoki Wada, Jiro Katto and Heming Sun (Waseda University, Japan)
3	1570785409	Mitigating Overflow of Object Detection Tasks Based on Masking Semantic Difference Region of Vision Snapshot for High Efficiency	Heuijee Yun (Kyungpook National University, South Korea); Daejin Park (Kyungpook National University (KNU), South Korea)
4	1570787469	Calibration-Net: LiDAR and Camera Auto-Calibration using Cost Volume and Convolutional Neural Network	An Duy Nguyen and Myungsik Yoo (Soongsil University, South Korea)
5	1570777823	Granular Analysis of Pretrained Object Detectors	Eric Xue (University of Toronto, Canada); Tae Soo Kim (Johns Hopkins University, USA)

Oral Session 4A: Information and Communications Technology IV (February 23, 2022, Wednesday, 09:30-10:50 Room A/Zoom A)
Chair: Prof. Dongkyun Kim (Kyungpook National University)

1	1570782032	Irregular Repetition Slotted ALOHA Scheme with Multi-Packet Reception in Packet Erasure Channel	Chundie Feng (Chongqing University, China); Xuhong Chen (China Development Bank, China); Zhengchuan Chen, Zhong Tian and Yunjian Jia (Chongqing University, China); Min Wang (Chongqing University of Posts and Telecommunications, China)
2	1570782736	Two-Policy Cooperative Transfer for Alleviation of Sim-to-Real Gap	Liangdong Wu (Institute of Automation, Chinese Academy of Sciences, China)
3	1570787051	Graph Neural Network-based Clustering Enhancement in VANET for Cooperative Driving	Hang Hu (City College of New York, USA); Myung Lee (City University of New York, City College, USA)
4	1570787120	Machine Learning-Based Power Loading for Massive Parallel Gaussian Channels	Min Jeong Kang and Jung Hoon Lee (Hankuk University of Foreign Studies, South Korea)
5	1570774446	Enhanced Semi-persistent scheduling (e-SPS) for Aperiodic Traffic in NR-V2X	Malik Muhammad Saad, Muhammad Ashar Tariq, Md. Mahmudul Islam, Muhammad Toaha Raza Khan, Junho Seo and Dongkyun Kim (Kyungpook National University, South Korea)
6	1570777970	Target Detection using U-Net for a DTV-based Passive Bistatic Radar System	Ji-Hun Park, Do-Hyun Park and Hyoung-Nam Kim (Pusan National University, South Korea)

Oral Session 4B: AI for eHealth and Medical Diagnosis I (February 23, 2022, Wednesday, 09:30-10:50 Room B/Zoom B)
Chair: Prof. Micheal Tee (University of the Philippines Manila)

1	1570766666	Privacy-preserving collaborative machine learning in biomedical applications	Wonsuk Kim and Junhee Seok (Korea University, South Korea)
2	1570775638	Computer Code Representation through Natural Language Processing for fMRI Data Analysis	Jaeyoon Kim (Korea University, South Korea); Una-May O'Reilly (MIT, USA); Junhee Seok (Korea University, South Korea)
3	1570776179	A Machine Learning Approach in Evaluating Symptom Screening in Predicting COVID-19	Geoffrey A. Solano (University of the Philippines Manila, Philippines); Marc Jermaine Pontiveros (University of the Philippines Manila & University of the Philippines Diliman, Philippines); Michael L. Tee (University of the Philippines Manila, Philippines)
4	1570777986	A Study on the Clinical Effectiveness of Deep Learning CAD Technology	Ju-Hyuck Han, Hyun-Woo Oh and Woong-Sik Kim (Konyang University, South Korea)
5	1570776672	Fake Data Generation for Medical Image Augmentation using GANs	Donghwan Kim, Jaehan Joo and Suk Chan Kim (Pusan National University, South Korea)

Oral Session 5A: AI for Image Processing and Multimedia IV (February 23, 2022, Wednesday, 11:10-12:30 Room A/Zoom A)
Chair: Prof. Hong Qin (University of Tennessee at Chattanooga)

1	1570789117	Vision Anomaly Detection Using Self-Gated Rectified Linear Unit	Israt Jahan, Md. Osman Ali, Md. Habibur Rahman and Yeong Min Jang (Kookmin University, South Korea)
2	1570780743	A Comparison of YOLO and Mask-RCNN for Detecting Cells from Microfluidic Images	Mehran Ghafari (University of Tennessee Chattanooga, USA); Daniel Mailman, Parisa Hatami, Trevor Peyton and Li Yang (University of Tennessee at Chattanooga, USA); Weiwei Dang (Baylor Collage of Medicine, USA); Hong Qin (University of Tennessee at Chattanooga, USA)
3	1570787848	Multiview Attention for 3D Object Detection in Lidar Point Cloud	Kevin T. Wijaya, Donghee Paek and Seung-Hyun Kong (Korea Advanced Institute of Science and Technology, South Korea)
4	1570787945	Multi-scale synergy approach for real-time semantic segmentation	Min Young Kim and Quyen Van Toan (Kyungpook National University, South Korea)
5	1570780544	CIAFill: Lightweight and Fast Image Inpainting with Channel Independent Attention	Chung-II Kim (Korea Electronics Technology Institute, South Korea); Saim Shin (KETI, South Korea); Han-Mu Park (Korea Electronics Technology Institute, South Korea)

Oral Session 5B: AI for eHealth and Medical Diagnosis II (February 23, 2022, Wednesday, 11:10-12:30 Room B/Zoom B)
Chair: Prof. Min Young Kim (Kyungpook National University)

1	1570777730	Anomaly Detection for Alzheimer's Disease in Brain MRIs via Unsupervised Generative Adversarial Learning	Geoffrey A. Solano and Sun Arthur A. Ojeda (University of the Philippines Manila, Philippines)
2	1570778192	Heart Disease Prediction Using Adaptive Infinite Feature Selection and Deep Neural Networks	Sudipta Modak, Esam Abdel-Raheem and Luis Rueda (University of Windsor, Canada)
3	1570779256	A federated binarized neural network model for constrained devices in IoT healthcare services	Hyeontaek Oh, Jongmin Yu, Nakyoung Kim, Dongyeong Kim and Jangwon Lee (KAIST, South Korea); Jinhong Yang (INJE University & Korea Advanced Institute of Science Technology, South Korea)
4	1570779671	Hierarchical User Status Classification for Imbalanced Biometric Data	Nakyoung Kim (KAIST, South Korea); Hyunseo Park (Korea Advanced Institute of Science and Technology (KAIST), South Korea); Gyeong Ho Lee, Jaeseob Han, Hyeontaek Oh and Jun Kyun Choi (KAIST, South Korea)
5	1570778087	Increasing Accuracy of Hand Gesture Recognition using Convolutional Neural Network	Gyutae Park and Chandrasegar Vasantha Kumar (Gyeongsang National University, South Korea); JoongGun Park (JD Co., Ltd, South Korea); Jinhwan Koh (Gyeongsang National University, South Korea)

Oral Session 6A: AI Foundation (February 23, 2022, Wednesday, 14:50-16:10 Room A/Zoom A) Chair: Dr. Deepesh Agarwal (Kansas State University)			
1	1570774813	Impacts of Behavioral Biases on Active Learning Strategies	Deepesh Agarwal (Kansas State University, USA); Obdulia Covarrubias and Stefan Bossmann (The University of Kansas Medical Center, USA); Bala Natarajan (Kansas State University, USA)
2	1570775859	Effect of the Period of the Fourier Series Approximation for Binarized Neural Network	Seon-Yong Lee, Hee-Youl Kwak and Jong-Seon No (Seoul National University, South Korea)
3	1570779684	CMCL: Clustering-based Memory Management for Continual Learning	Jiae Yoon (GIST, South Korea); Hyuk Lim (Gwangju Institute of Science and Technology, South Korea)
4	1570779999	TinyML: A Systematic Review and Synthesis of Existing Research	Hui Han (Fraunhofer Institute for Experimental Software Engineering IESE, Germany); Julien Siebert (Fraunhofer Institut for Experimental Software Engineering IESE, Germany)
5	1570775272	A Survey of Procedural Content Generation of Natural Objects in Games	Tianhan Gao (Northeastern University of China, China); Jiahui Zhu (Northeastern University, China)

Oral Session 6B: AI for Control and Decision I (February 23, 2022, Wednesday, 14:50-16:10 Room B/Zoom B) Chair: Prof. Eunkyung Kim (Hanbat National University)			
1	1570775075	Reinforcement Learning for Neural Collaborative Filtering	Alexandros I Metsai (My Company Projects, Greece); Konstantinos Karamitsios and Konstantinos Kotrotsios (My Company Projects O. E., Greece); Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA); George Stalidis and Kostas Goulianas (International Hellenic University, Greece)
2	1570777981	A Survey of Markov Model in Reinforcement Learning	Tianhan Gao (Northeastern University of China, China); Baicheng Chen (Northeastern University & Arlinton University, China); Qingwei Mi (Northeastern University, China)
3	1570778047	Fairness Enhancement of TCP Congestion Control Using Reinforcement Learning	Sang-Jin Seo and You-Ze Cho (Kyungpook National University, South Korea)
4	1570779071	Merging Reinforcement Learning and Inverse Reinforcement Learning via Auxiliary Reward System	Wadhah Zeyad Tareq and M. Fatih Amasyali (Yıldız Technical University, Turkey)
5	1570789493	Pothole Detection Using Optical Camera Communication	Md. Osman Ali, Israt Jahan, Raihan Bin Mofidul and Yeong Min Jang (Kookmin University, South Korea)

Oral Session 7A: AI Applications for Information Systems I (February 23, 2022, Wednesday, 16:30-17:50 Room A/Zoom A)
Chair: Dr. Ali Rizwan (Qatar University)

1	1570775488	Sensor Network System for Condition Detection of Harmful Animals by Step-by-step Interlocking of Various Sensors	Keigo Uchiyama and Hiroshi Yamamoto (Ritsumeikan University, Japan); Eiji Utsunomiya (KDDI Research, Japan); Kiyohito Yoshihara (KDDI Research Inc., Japan)
2	1570778104	WiFi Positioning by Optimal k-NN in 3GPP Indoor Office Environment	Sung Hyun Oh and Jeong Gon Kim (Korea Polytechnic University, South Korea)
3	1570778199	A Study on the improvement of chinese automatic speech recognition accuracy using a lexicon	Minjeong Gu (University of Science and Technology & Electronics and Telecommunications Research Institute, South Korea); Shingak Kang (Electronics and Telecommunication Research Institute, South Korea)
4	1570779345	Addressing Data Sparsity with GANs for Multi-fault Diagnosing in Emerging Cellular Networks	Ali Rizwan (University of Glasgow, United Kingdom (Great Britain)); Adnan Abu-Dayya and Fethi Filali (QMIC, Qatar); Ali Imran (University of Oklahoma, USA)
5	1570780528	Edge-Computing based Secure E-learning Platforms	Sameer Ahmad Bhat (Gulf University for Science and Technology, Kuwait); Muneer Dar (National Institute of Electronics & Information Technology, Srinagar, India); Saadiya Shah (National Institute of Electronics and Information Technology, Kuwait)
6	1570790821	Efficient classification of human activity using PCA and deep learning LSTM with WiFi CSI	Sang-Chul Kim and Yong-Hwan Kim (Kookmin University, South Korea)

Oral Session 7B: AI for Control and Decision II (February 23, 2022, Wednesday, 16:30-17:50 Room B/Zoom B)
Chair: Dr. Adhitya Bantwal Bhandarkar (University of New Mexico)

1	1570780104	MARL-based Optimal Route Control in Multi-AGV Warehouses	Ho-Bin Choi, Ju-Bong Kim, Chang-Hun Ji, Ihsan Ullah and Youn-Hee Han (Korea University of Technology and Education, South Korea); Se Won Oh (ETRI, South Korea); Kwi-Hoon Kim (Korea National University of Education, South Korea); Cheol Sig Pyo (ETRI, South Korea)
2	1570786753	DDPG-Edge-Cloud: A Deep-Deterministic Policy Gradient based Multi-Resource Allocation in Edge-Cloud System	Arslan Qadeer (City College of New York, CUNY, USA); Myung Lee (City University of New York, City College, USA)
3	1570787091	A Study on Update Frequency of Q-Learning-based Transmission Datarate Adaptation using Redundant Check Information for IEEE 802.11ax Wireless LAN	Kazuto Yano, Kenta Suzuki and Babatunde Ojetunde (Advanced Telecommunications Research Institute International (ATR), Japan); Koji Yamamoto (Kyoto University, Japan)
4	1570781753	User Coverage Maximization for a UAV-mounted Base Station Using Reinforcement Learning and Greedy Methods	Adhitya Bantwal Bhandarkar (University of New Mexico, USA); Sudharman K Jayaweera (University of New Mexico & Bluecom Systems, USA); Steven Lane (Air Force Research Laboratory, USA)
5	1570776330	SVR-based Blind Equalization on HF Channels with a Doppler Spread	Soon-Young Kwon, Ji-Hyeon Kim and Hyoung-Nam Kim (Pusan National University, South Korea)

Oral Session 8A: AI Applications for Information Systems II (February 24, 2022, Thursday, 09:30-10:50 Room A/Zoom A)
Chair: Prof. Anteneh Girma (University of the District of Columbia)

1	1570779880	Resolving Camera Position for a Practical Application of Gaze Estimation on Edge Devices	Linh Van Ma and Tin Trung Tran (Gwangju Institute of Science and Technology, South Korea); Moongu Jeon (Gwangju Institute of Science and Technology (GIST), South Korea)
2	1570779924	Throughput Prediction by Radio Environment Correlation Recognition Using Crowd Sensing and Federated Learning	Satoshi Nakaniida and Takeo Fujii (The University of Electro-Communications, Japan)
3	1570780045	Thermal Array Sensor Resolution-Aware Activity Recognition using Convolutional Neural Network	Goodness Oluchi Anyanwu, Cosmas Ifeanyi Nwakanma, Adinda Riztia Putri, Jae Min Lee and Dong Seong Kim (Kumoh National Institute of Technology, South Korea)
4	1570781676	An Investigation on Deep Learning-Based Activity Recognition Using IMUs and Stretch Sensors	Nguyen Thi Hoai Thu and Dong Seog Han (Kyungpook National University, South Korea)
5	1570787979	Comparative analysis of solar power generation prediction system using deep learning	So-yeong Kim and Eun-ji Lee (Chosun University, South Korea); Uttam Khatri (Chosun University, Nepal); Seokjoo Shin, Ji-In Kim and Goo-Rak Kwon (Chosun University, South Korea)

Oral Session 8B: AI for eHealth and Medical Diagnosis III (February 24, 2022, Thursday, 09:30-10:50 Room B/Zoom B)
Chair: Prof. Pyungsoo Kim (Korea Polytechnic University)

1	1570779673	Multi-head CNN and LSTM with Attention for User Status Estimation from Biometric Information	Hyunseo Park (Korea Advanced Institute of Science and Technology (KAIST), South Korea); Nakyoung Kim, Gyeong Ho Lee, Jaeseob Han and Hyeontaek Oh (KAIST, South Korea); Jun Kyun Choi (Korea Advanced Institute of Science and Technology (KAIST), South Korea)
2	1570781857	An Explainable Computer Vision in Histopathology: Techniques for Interpreting Black Box Model	Subrata Bhattacharjee, Hwang-Byn Yeong, Kobiljon Ikromjanov, Rashadul Islam Sumon, Hee-Cheol Kim and Heung-Kook Choi (Inje University, South Korea)
3	1570781904	Whole Slide Image Analysis and Detection of Prostate Cancer using Vision Transformers	Kobiljon Ikromjanov, Subrata Bhattacharjee, Hwang-Byn Yeong, Rashadul Islam Sumon, Hee-Cheol Kim and Heung-Kook Choi (Inje University, South Korea)
4	1570773640	A Generative Adversarial Network Approach to Metastatic Cancer Cell Images	Seohyun Lee, Hyuno Kim and Hideo Higuchi (The University of Tokyo, Japan); Masatoshi Ishikawa (University of Tokyo, Japan); Ryuichiro Nakato (Institute of Quantitative Bioscience, Japan)
5	1570780901	UIRNet: Facial Landmarks Detection Model with Symmetric Encoder-Decoder	Savina Colaco, Young Jin Yoon and Dong Seog Han (Kyungpook National University, South Korea)

Oral Session 9A: AI Applications for Information Systems III (February 24, 2022, Thursday, 11:10-12:30 Room A/Zoom A)
Chair: Prof. Jeong Gon Kim (Korea Polytechnic University)

1	1570781636	Design and Analysis of an Efficient Energy Sharing System among Electric Vehicles using Evolutionary Game Theory	MD Rizwanul Kabir, Muhammad Mutiul Muhaimin and Abrar Mahir (Islamic University of Technology (IUT), Bangladesh); Habibul Khondokar Kabir (Islamic University of Technology (IUT), Japan)
2	1570781764	GAN-based Data Augmentation for UWB NLOS Identification Using Machine Learning	Duc Hoang Tran and Yeong Min Jang (Kookmin University, South Korea)
3	1570778566	BER Minimization by User Pairing in Downlink NOMA Using Laser Chaos-Based MAB Algorithm	Masaki Sugiyama, Aohan Li and Zengchao Duan (Tokyo University of Science, Japan); Makoto Naruse (The University of Tokyo, Japan); Mikio Hasegawa (Tokyo University of Science, Japan)
4	1570787073	Hybrid Energy Management Systems based on Edge Processing for Electric Transportation Applications	Henar Canilang (Kumoh National Institute of Technology, South Korea); Danielle Jaye S. Agron (Kumoh National Institute of Technology, South Korea, South Korea); Wansu Lim (Kumoh National Institute of Technology, South Korea)
5	1570772165	Studies on Intelligent Curation for the Korean Traditional Cultural Heritage	Jae-Ho Lee (Electronics and Telecommunications Research Institute: ETRI, South Korea); Hee-Kwon Kim and Chan-woo Park (Electronics and Telecommunications Research Institute, South Korea)

Oral Session 9B: AI for Data Analysis, Big Data and Cloud (February 24, 2022, Thursday, 11:10-12:30 Room B/Zoom B)
Chair: Prof. Ihsan Ullah (Korea University of Technology and Education)

1	1570779601	Community Detection with Graph Neural Network using Markov Stability	Chao Wang (Xidian University, China); Shunjie Yuan (University of Xidian, China)
2	1570780190	Exploiting Heterogeneous Monitoring Data for Spatiotemporal Algal Bloom Prediction	Taewhi Lee and Miyoung Jang (ETRI, South Korea); Jang-Ho Choi (Electronics and Telecommunications Research Institute, South Korea); Jong Ho Won and Jiyong Kim (ETRI, South Korea)
3	1570780807	Three-dimensional Data Outlier Detected by Angle Analysis	Zhongyang Shen (China Mobile, China)
4	1570781882	Identification and Analysis of COVID-19-related Misinformation Tweets via Kullback-Leibler Divergence for Informativeness and Phraseness and Biterm Topic Modeling	Thomas Daniel S. Clamor and Geoffrey A. Solano (University of the Philippines Manila, Philippines); Nathaniel Oco (De La Salle University, Philippines); Jasper Kyle Catapang (University of Birmingham, United Kingdom (Great Britain)); Jerome Cleofas (De La Salle University, Philippines); Iris Thiele Isip-Tan (University of the Philippines Manila, Philippines)
5	1570780769	Blockchain based Secure Data Exchange between Cloud Networks and Smart Hand-held Devices for use in Smart Cities	Muneer Dar (National Institute of Electronics & Information Technology, Srinagar, India); Sameer Ahmad Bhat (Gulf University for Science and Technology (GUST), Meref, Kuwait)