

## ICNGC2019 Program

Thursday, December. 19th, 2019		
Time	Program	Venue : Duangtawan Hotel
14:00~18:00	Registration (Lobby)	
15:00~17:00	Steering Committee Meeting	
17:00~18:00	Presenter Meeting	
Friday, December. 20th, 2019 : Conference		
09:30~10:00	Registration (Lobby)	Venue : Duangtawan Hotel
10:00~10:20	<b>Opening Speech from Chairman</b> - Prof. Byeong-hee Roh (Ajou University, Korea)	
10:30~11:00	<b>Keynote Speech I</b> Methods for Next Generation Textmining and Search in the Web Dr. Herwig Unger, FernUniversitaet in Hagen, Germany	
11:00~11:30	<b>Keynote Speech II</b> The need to Counter Present and Expected Information Security Challenges Dr. Gerald Quirchmayr, University of Vienna	
11:30~12:00	<b>Keynote Speech III</b> Privacy Issues on Trajectory Data Publishing Wookey Lee, Inha University, Korea	

13:30~14:50	Session I : Big data & cloud (chair : Ph.D)	Session II: AI (chair : Ph.D)
	<ul style="list-style-type: none"> <li>• Brand Listening using Twitter Sentiment Analysis / Bundidth Dangsawang, Tiphathai Thongthammachart, Nitigan Nakjuatong, Maleerat Sodanil / King Mongkut's University of Technology North Bangkok Bangkok, Thailand</li> <li>• Early classification of Alzheimer's disease using cortical and subcortical regions from MRI T1 brain image / Saidjalol Toshkhujaev, Yubraj Gupta, Goo-Rak Kwon / Chosun University, Korea</li> <li>• Additional Control Message Handling Process to Improve Slot Utilization of the MANET Nodes which Firing Message Collide in Extended-Desync TDMA / Cheol-woong Lee, Byeong-hee Roh / Ajou University, Korea</li> </ul>	<ul style="list-style-type: none"> <li>• Faster and Lighter Optical Flow Estimation Model using Depthwise Separable Convolution / Hyeonwoo Shim, Jong-Kook Kim / Korea University, Korea</li> <li>• AvoidNet Backdoor: Misclassification with Certain Avoided Classes on Deep Neural Network / Hyun Kwon, Hyunsoo Yoon, Ki-Woong Park / Korea Advanced Institute of Science and Technology, Sejong University, Korea</li> <li>• Prediction of Heart Disease Risk Using Data Mining Techniques of Logistic Regression and Neural Network / Kanin Kearpimy, Pacharapimol Bootchamoi, Hathairat Ketmaneechairat / King Mongkut's University of Technology North Bangkok Bangkok, Thailand</li> </ul>

	<ul style="list-style-type: none"> <li>Handling Imbalanced Datasets and Detecting Obfuscated Java Classes Using Machine Learning / Daehan Kim, Minki Kim, Wonwuk Lee, Geunha You, Seong-je Cho, Minkyu Park, Sangchul Han / Dankook University, Konkuk University, Korea</li> </ul>	<ul style="list-style-type: none"> <li>Categorized Violent Contents detection in cartoon movies using Deep Learning Model: Mobile Net / Noreen Fayyaz Khan, Altaf Hussain, Abbas khan, Imran Ud Din / Islamia College Peshawar, Pakistan</li> </ul>
14:50~15:00	<b>Coffee break</b>	
15:00~16:20	<b>Session III : ICT Convergence (chair: Ph.D )</b>	<b>Session IV : IoT (chair: Ph.D )</b>
	<ul style="list-style-type: none"> <li>The 2Q Optimization with the Five-minute Rule in an NVMe SSD / Jaehun Lee, Trong-Dat Nguyen, Sang-Won Lee / Sungkyunkwan University, Korea</li> <li>Network Monitoring and Management System via a LINE Application / Nuttapun Nakpong, Ekkamol Chansamrong, Rungrat Yindeethip, Soontron Wimuktalop / King Mongkut's University of Technology North Bangkok Bangkok, King Mongkut's University of Technology Thonburi, Thailand</li> <li>Benchmarking Kubernetes based Edge Server in Embedded Environment / JooHwan Kim, Deok-Hwan Kim / Inha University, Korea</li> <li>Analysis of Group Based Contention in IEEE 802.11ah Networks / Ikram Syed, Khalil Khan, Irfan Ud Din, Byeong-hee Roh / The Superior College Lahore, The University of Azad Jammu &amp; Kashmir, Ajou University, Pakistan, Korea</li> </ul>	<ul style="list-style-type: none"> <li>CNN based Efficient Facial Expression Analysis for Law Enforcement in a Smart City / Noman Khan, Zulfiqar Ahmad Khan, Amin Ullah, Sung Wook Baik / Sejong University, Korea</li> <li>Multiple Vehicles Tracking in Intelligent Transportation System using Convolutional Neural Network and Kalman Filter / Ngoc Dung Bui, Xuan Tung Hoang / University of Transport and Communications, Vietnam</li> <li>An Autonomous Control of an Aerial Robot Using an Ultrasonic Based Positioning System for Indoor Use / Martin Jaime-Viveros, SJ Kim, Abhijith Prabhu, Woogeun Kil, Kiyong Lee, Byeong-hee Roh / Howard R. Hughes College of Engineering University of Nevada Las Vegas, Ajou University, USA, Korea</li> <li>Fast Magnetic Field Map Collection for Indoor Localization / Wonjoon Son and Lynn Choi / Korea University, Korea</li> </ul>
16:20~17:30	<b>Poster Session (chair: xxx)</b>	
	<ul style="list-style-type: none"> <li>Hue Based Effective Face Detection Using IoT Cooperation for Standby Power Reduction / Myeongjin Kang, Jeongjun Cho, Daejin Park / KyungPook National University, Korea</li> <li>Jamming Mitigation with Reinforcement Learning in a Multi-Channel Ad Hoc Network Environment / Hak-Jun Kim, Robert Basominger, Young-June Choi / Ajou University, Korea</li> <li>Drug response prediction using cell line gene expression data / Kexin Qiu, Dongmug Kang, Joongho Lee, Seokhyun Yoon / Dankook University, Korea</li> <li>Noisy ECG Data affected by Motion Artifact Detection Algorithm using SVM Binary Classifier / ChanHyeong Joo, JaeYeon Park, JeongGil Ko / Ajou University, Yonsei University, Korea</li> <li>Artificial Neural Network based Remaining Useful Life Prediction for Rotating Components / Jae Won Cha, Jong-Kook Kim / Korea University, Korea</li> <li>Prediction of Visible Distance Using Satellite Image Data / Sunho Choi, Heewoong Ahn, Junhee Seok / Korea University, Korea</li> <li>Hand Gesture Signal Extraction and Application to a Light Controller Using a Passive Electric Field Sensor</li> </ul>	

	<p>/ Sunil Jung, Youngchul Kim / Chonnam National University, Korea</p> <ul style="list-style-type: none"> <li>• A TRANSFORM KERNEL DERIVATION FOR VERSATILE VIDEO CODING (VVC) / Sandeep Shrestha, Bumshik Lee / Chosun University, Korea</li> <li>• Randomized Hashing for Video Surveillance System / Sarala Ghimire, Seokjoo Shin, Bumshik Lee / Chosun University, Korea</li> <li>• Wrinkle detection based on effective Active Appearance Model / Umirzakova Sabina, Taeg Keun Whangbo / Gachon University, Korea</li> <li>• Development Scheme of ATC Simulation Based on MR Technology / Seho Park, Ashish Kumar, Sugjoon Yoon, Jongwon Lee / Sejong University, Korea</li> <li>• A New Anti-Reverse Engineering for Android Apps Using Application-level Virtualization and Code Packing / Kyeonghwan Lim, Seungjae Han, Seong-je Cho, Jongmoo Choi, Hanil Kim, Hyoil Han, Kyoungwon Suh / Dankook University, Jeju National University, Illinois State University, Korea, USA</li> <li>• Requirements Derivation of Testbed for UAV Anomaly Detection / Ki-Wan Kang, Sung-Kyung Kim, Ki-Woong Park / Sejong University, Korea</li> <li>• A Batteryless Remote Sensor with Solar Panel Based on Non-Volatile FRAM / Sangsoo Park Hayeon Choi / Ewha Womans University, Korea</li> <li>• Generative Adversarial Networks for Natural Image Matting / Sahadev Poudel, Sang-Woong Lee / Gachon University, Korea</li> <li>• Anomaly Recognition in Smart Cities using Deep Optical Flow and Multi-Layer LSTM / Salman Khan, Amin Ullah, Seogbong Jeon, Sung Wook Baik / Sejong University, Korea</li> <li>• Enhancement of Drone Camera Information for Precise Landing / Chan Min Kwon, Min Je Kim, Hye Won Lee, Sung Wook Baik / Sejong University, Korea</li> <li>• Dynamic 3D Sound Rendering with Sound Propagation on Hardware and Software / Cheong Ghil Kim, Eunjae Kim, Juwon Yun, Woonam Chung, Woo-Chan Park / Namseoul University, Korea Polytechnic University, Dankook University, Sejong University, Korea</li> <li>• Deep learning-based Fusarium wilt detection using UAV imagery with Explainable Artificial Intelligence / L. Minh Dang, Christine Lee, Hanxiang Wang, Hyeonjoon Moon / Sejong University, Korea</li> <li>• Design and Implementation of Streaming System for HoloLens with IoT Platform / Woogeun Kil, Kwangpyo Ko, Kiyong Lee, Byeong-hee Roh, Kiyeol Ryu / Ajou University, Korea</li> <li>• Hive Tuning using TPC-H Benchmark / Seunghwan Lee, Heeseong Shin, Sunghwan Jeon, Yunmook Nah / Dankook University, Korea</li> </ul>
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<b>Saturday, December. 21th, 2019 : Conference</b>	
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<b>Session V : Emerging Topics</b>	
<b>(chair : Ph.D )</b>	
10:00~10:50	<ul style="list-style-type: none"> <li>• Efficient Deep learning Approach for Classification of Pneumonia using Resources Constraint Devices in Healthcare / Altaf Hussain, Abbas Khan, Hikmat Yar, Noreen Fayyaz khan / Islamia College Peshawar, Pakistan</li> <li>• Real-Time Facial Emotion Recognition and Gender Classification for Human Robot Interaction using CNN / Hikmat YAR, TAUSEEF JAN, ALTAF HUSSAIN, SHAMS UD DIN / Islamia College Peshawar, Pakistan</li> <li>• Aerial Imagery Super-Resolution Using a Super Resolution Generative Adversarial Network / Abbas khan, Altaf Hussain, Noreen Fayyaz khan, Sultanat Shah / Islamia College Peshawar, Pakistan</li> <li>• Real-time Violence Detection in Surveillance Videos using Rpi / Muhammad Salman, Hikmat Yar, Khalil Ur Rahman / Islamia College Peshawar, Pakistan</li> <li>• Analyzing Deep Learning-Based Approach to Detect SQL Injection Attacks / Yasir Malik / New York Institute of technology</li> </ul>

11:00~12:30	<b>Poster Session</b> <b>(chair: Ph.D )</b>
	<ul style="list-style-type: none"> <li>• Development of Web-based CFD System for Data Center for Server Room Cooling Analysis / Min-Young Chang, Jin-Kyu Lee, Si-Woo Kim, Tak-Hyun Kim / Onion Software Incorporation, Korea</li> <li>• Efficient Detection of LEDs in Visible Light Communication Systems With Mobile Phone Camera / Muhammad Waqar, Ajung Kim, Jawad Tanveer, Anas Bilal / Sejong University, Beijing University, Korea, China</li> <li>• Analysis of Various Metrics for Text Generation Evaluation / Chan-Woong Jung, Jong-Kook Kim / Korea University, Korea</li> <li>• A Study on Periodically Log Broker in Cloud based Serverless Applications / Dongmin Kim, Jae Gi Son, Ki Man Jeon, Jungguk Kim / Korea Electronics Technology Institute, Korea</li> <li>• A DST-3 BASED TRANSFORM KERNELS DERIVATION METHOD FOR VIDEO CODING / Sandeep Shrestha, Bumshik Lee / Chosun University, Korea</li> <li>• CNN-based Resource Allocation for Vehicular Networks / Jinhee Lim, Yafeng Deng, Young-June Choi / Ajou University, Korea</li> <li>• Iterative Design and Usability of Gamified Application for Adults with ASD / Seungwon Paik, Bogoan Kim, Kyungsik Han / Ajou University, Korea</li> <li>• Effective Panorama Image Generation from Fisheye Cameras Using ORB Features / Muhammad Irfan, Jong Weon Lee / Sejong University, Korea</li> <li>• Quantitative Analysis of Compaction Techniques in Key-Value Store / Jongmoo Choi, Kwanghee Lee, Gunhee Choi, Seong-je Cho, Wonhyo Cho, Jaeyeon Lee / Dankook University, Korea</li> <li>• Fluid Haptic Rendering using Physics based Neural Network / Youngho Kim, Jiseop Lim, Solkeun Jee, Jeha Ryu / Gwangju Institute of Science and Technology, Korea</li> <li>• This Bot Knows the Context: Developing a Human-Preferred Dialogue System Using Contextual Information / Jin Yea Jang, Hanmu Park, Saim Shin, Kyungsik Han, Kyungsik Han / Korea Electronics Technology Institute, Ajou University, Korea</li> <li>• A Review of Duty-Cycled MAC Protocols Simulation in Castalia / Ayesha Akter Lata, Moonsoo Kang, Chung Ghiu Lee / Chosun University, Korea</li> <li>• Study of facial asymmetry features-based strabismus diagnosis system / Su-min Jung, Taeg-keun Whangbo / Gachon University, Korea</li> <li>• Security Monitoring for the SCADA/ICS Systems / Sugwon Hong, Jae-Myeong Lee / Myongji University, Korea</li> <li>• EEG, ECG, GSR signal based 1D CNN emotion recognition for real time robot interface / Woo-Hyun Hwang, Deok-Hwan Kim / Inha University, Korea</li> <li>• System for Real-time Monitoring of Congestive Heart Failure based on Deep Learning / Soyeon Oh, Minsoo Lee / Ewha Womans University, Korea</li> <li>• Mask Pruning-Based Global Attention for Image Inpainting / S. M Nadim Uddin, Yong Ju Jung / Gachon University, Korea</li> <li>• Targets Information Sharing via Drones in Smart Cities for Secure Surveillance / Tanveer Hussain, Ijaz Ul Haq, Mi Young Lee / Sejong University, Korea</li> <li>• Deep learning-based calibration model to improve PM10 measurement accuracy of low-cost sensors / Ah Young Kang, Yeong Hyeon Gu, Hye Jin Lim, Seong Joon Yoo / Sejong University, Korea</li> <li>• Performance improvement of inner product encryption using parallel processing / Seong-Yun Jeon, Jong-Hyuk Im, Mun-Kyu Lee / Inha University, Korea</li> <li>• Resource Usage Monitoring in Cloud Environment: Approach via Linux Kernel Module / Byeong-Yong Yi, Sang-Hoon Choi, Ki-Woong Park / Sejong University, Korea</li> <li>• Open Source Based Web Tool for Multi-Bitrate HTTP Live Streaming Performance Evaluation / Sangsoo Park, Hayeon Choi, Ik-Soon Kim / Ewha Womans University, Electronics and Telecommunications Research Institute, Korea</li> <li>• Benchmarking Sparse Matrix-Vector Multiplication on Heterogeneous Cluster / Sungho Bang, Daehyun Kim, Jee W. Choi, Sangyoon Oh / Ajou University, University of Oregon Eugene, Korea</li> </ul>

	<ul style="list-style-type: none"> <li>• An Overview on Cross Platform Modeling, Technologies and Challenges / Kilichbek Haydarov, Seungmin Rho, Miyoung Lee, Sung Wook Baik / Sejong University, Korea</li> <li>• Fuzzy Logics for Energy Load Forecasting: A Survey / Khan Muhammad, Seungmin Rho, Salman Khan, Miyoung Lee, Sung Wook Baik / Sejong University, Korea</li> <li>• Drone Video Enhancement in Haze Environment using CNN / Chan Min Kwon, Su Min Lee, Ju Chan Park, Sung Wook Baik / Sejong University, Korea</li> <li>• A Study on the Basic Software Curriculum for Improving Algorithm Thinking / Yuna Chong, Eungkyo Suh, Sohyun Park, Haejin Chung / Dankook University, Korea</li> <li>• A Survey for Skeleton-based Action Recognition / Hyun-Cheol Park, Se-Won Kim, Sang-Woong Lee / Gachon University, Korea</li> <li>• Effect of Kubernetes Resource Allocation on Spark Distributed Processing / Jingon Park, JaeHyun Jeong, Kyubin Lee, Yummook Nah / Dankook University, Korea</li> <li>• Autonomous Intelligent Digital Companion Framework and Application / Consortium pf Cloud Computing Research</li> <li>• Development of Distributed and Collaborative Container Platform enabling Auto Scaling and Service Mobility / Consortium pf Cloud Computing Research</li> </ul>
12:30~13:00	<b>Closing Poster Session awards</b>

※ The program may be changed by the organizer.