

ICTACT2017 Advance Program in Paper Title Order - 23, Jan., 2017

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PaperNo	Sess- ion	Session Title	Date	Time	Paper Title	Author(s)	Organization(s)	CRF compliance check
20170085	6E-01	Web Service & Future Web 4	Feb. 21(Tue)	15:00~16:30	A 3-dimensional View Model of IoT-empowered Business Model Engineering Towards Borderless Business Reengineering	Toshihiko Yamakami	ACCESS, Japan	
20170082	6B-05	Software Platform & Smart Service 1	Feb. 21(Tue)	15:00~16:30	A 4-stage Mental Model of Conversion:An Approach to Capture Transition of Customer Mind	Toshihiko Yamakami	ACCESS, Japan	
20170023	6B-02	Software Platform & Smart Service 1	Feb. 21(Tue)	15:00~16:30	A Bayesian Sensor Fusion Scheme for Attitude Tracking	Junekey Jeon, Hwa-Suk Kim, Woo-Sug Jung, Sun-Joong Kim	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170153	5B-02	ITS & Telematics 2	Feb. 21(Tue)	13:00~14:30	A Collision-Mitigation Hashing Scheme Utilizing Empty Slots of Cuckoo Hash Table	ChoongHee Cho*, JungBok Lee**, and Jeong-dong Ryoo*	*Korea University of Science and Technology (UST), Korea, **Kakao Corp, Korea	
20170426	2E-04	Distributed & Cloud Computing 2	Feb. 20(Mon)	13:00~14:30	A Communication Security Protocol for Ubiquitous Sensor Networks	Mangal Sain, Ndibanje Bruce, Ki Hwan Kim, Hoon Jae Lee	Dongseo University, Busan, Korea	
20170083	7B-04	Software Platform & Smart Service 2	Feb. 21(Tue)	17:00~18:30	A Comparative Analysis of Time-lag Type-in Advertisements	Toshihiko Yamakami*, Aska Ikeda**, Tetsuro Fujii**	*ACCESS, Japan, *** Tokyo City University, Japan	
20170246	8D-02	Big Data & Search Engine 5	Feb. 22(Wed)	10:00-11:30	A Comparative Study on Multi-object Tracking Methods for Sports Events	Sungwon MOON*, Jiwon LEE*, Dowon NAM*, Howon KIM*, Wonjun KIM**	*Electronics and Telecommunication Research Institute (ETRI), Korea, **KONKUK University, Korea	
20170180	4A-06	Mobie & Wireless Communication 4	Feb. 21(Tue)	10:00~11:30	A Cooperative Spectrum Sensing Algorithm Based on Leading Eigenvector Matching	Yuhui SONG, Yigang ZHOU	Harbin Institute of Technology, China	
20170252	5B-03	ITS & Telematics 2	Feb. 21(Tue)	13:00~14:30	A Design and Simulation of Variable CCH Interval based on Message of V2X	ShinKyung Lee, HyunKyun Choi	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170140	1E-02	Distributed & Cloud Computing 1	Feb. 20(Mon)	10:00~11:30	A Design of the Flow Switch for the Cloud based Network Function Virtualization	Kang Il Choi, Bhum Cheol Lee	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170119	2A-01	Mobie & Wireless Communication 2	Feb. 20(Mon)	13:00~14:30	A Dual Preamble Random Access Protocol for Reducing Access Congestion in Disaster Situations	Seung Beom Seo*, Wha Sook Jeon*, and Dong Geun Jeong**	*Seoul National University, Korea, **Hankuk University of Foreign Studies, Korea, **CNU (Chungnam National University), Korea	
20170022	6C-01	Systems & Software Engineering 1	Feb. 21(Tue)	15:00~16:30	A Framework of Universiti Kebangsaan Malaysia Patent: UKM Patent	Rosilah Hassan, Abdullah A. Al-khatib and Wan Mohd Hirwani Wan Hussain	Universiti Kebangsaan Malaysia, MALAYSIA	
20170060	3B-01	IPTV & Internet Telephony	Feb. 20(Mon)	15:00~16:30	A Lightweight Personalized Image Preloading Method for IPTV System	Wen-Chang Tsai*, Chih-Lung Ko*, Chi-Shi Liu*	*Telecommunication Laboratories Chunghwa Telecom Co., Ltd., Taiwan	
20170369	1B-05	Ubiquitous & Sensor Network 1	Feb. 20(Mon)	10:00~11:30	A Medium Access Control for the Infraless Peer Aware Communication Networks	Seong-Soon Joo, Kwihoon Kim, Nae-Soo Kim and Cheol-Sik Pyo	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170027	6B-04	Software Platform & Smart Service 1	Feb. 21(Tue)	15:00~16:30	A New ICF-based Ball Tracking System with Multi-Expose Cameras for Virtual Sports	Jong-Sung Kim, Myung-Gyu Kim	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170031	4B-02	ITS & Telematics 1	Feb. 21(Tue)	10:00~11:30	A New Model for Effective Use of Robustness as a Measure of QoS in Vehicular Ad-hoc Networks	Nitin Singh Rajput*, Rahul Banerjee*, Ajinkya Rajput**, Abhimanyu Siwach*	*Birla Institute of Technology and Science, India, **Indian Institute of Science, India	
20170156	6A-03	Mobie & Wireless Communication 6	Feb. 21(Tue)	15:00~16:30	A Programmable Interactive Approach for QualNet-based Network Model Evaluation and Testing	Haiqiao Wu**, Lining Han**, Li Huang*, Meng Song**, Duk Kyung Kim***, and Peng Gong**	*State Grid Global Energy Interconnection Research Institute, China, **Beijing Institute of Technology, China, ***Inha University, Korea	
20170189	4B-04	ITS & Telematics 1	Feb. 21(Tue)	10:00~11:30	A Q-learning algorithm applied to the behavioral decision-making of affective virtual human	Yiwei ZHANG,Tianhuang CHEN	Wuhan University of Technology, China	
20170399	6E-04	Web Service & Future Web 4	Feb. 21(Tue)	15:00~16:30	A Reliable Internet of Things based Architecture for Oil and Gas Industry	Wazir Zada Khan*, Mohammed Y Aalsalem*, Muhammad Khurram Khan**, Md. Shohrab Hossain*** and Mohammed Atiqzaman****	*Jazan University, Saudi Arabia, **King Saud University, Saudi Arabia, ***Bangladesh University of Engineering and Technology, Bangladesh, ****University of	
20170136	5A-04	Mobie & Wireless Communication 5	Feb. 21(Tue)	13:00~14:30	A Stable Clustering Algorithm based on Affinity Propagation for VANETS	Hamayoun Shahwani , Toan Duc Bui , Jaehoon (Paul) Jeongy and Jitae Shin	Sungkyunkwan University, Korea	

20170336	5B-04	ITS & Telematics 2	Feb. 21(Tue)	13:00~14:30	A Study for QoS support in the WAVE MAC	Jeong-Woo Lee, Hyun-Kyun Choi	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170148	3B-04	IPTV & Internet Telephony	Feb. 20(Mon)	15:00~16:30	A study of MXF Extension of mapping HEVC Stream for UHD Broadcasting Contents Production	Se Yoon Jeong*, Jooyoung Lee, Jae-hyoun Yoo, Hui Yong Kim	ETRI (Electronics and Telecommunications Research Institute), Korea	
20170249	8D-03	Big Data & Search Engine 5	Feb. 22(Wed)	10:00-11:30	A Study on Composition of Context-based Soccer Analysis System	Jiwon Lee, Do-Won Nam, JungSoo Lee, Sungwon Moon, Kyungill Kim, and Howon Kim	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170357	8D-04	Big Data & Search Engine 5	Feb. 22(Wed)	10:00-11:30	A study on motion recognition of objects in soccer game	Jungsoo Lee*, Jiwon Lee*, Sungwon Moon*, Dowon Nam*	*Electronics and Telecommunication Research Institute (ETRI), Korea	
20170327	3C-04	Information & Network Security 3	Feb. 20(Mon)	15:00~16:30	A Study on One-way Communication using PF_RING ZC	Jin-Hong Kim*, Jung-Chan Na**	* UST(Korea University of Science and Technology), Korea, ** ETRI(Electronics and Telecommunications Research Institute), Korea	
20170021	5D-01	Big Data & Search Engine 2	Feb. 21(Tue)	13:00-14:30	Accelerating Eulerian Video Magnification Using FPGA	Kening Zhang*, Xi Jin*, An Wu*	University of Science and Technology of China, China	
20170072	3A-03	Mobie & Wireless Communication 3	Feb. 20(Mon)	15:00~16:30	Ad Hoc WLAN Throughput Improvement by Reduction of RTS Range	Emilia Weyulu, Taro Iwabuchi, Misu Takeshi, Masaki Hanada, Moo Wan Kim	Tokyo University of Information Sciences, Japan	
20170069	4A-04	Mobie & Wireless Communication 4	Feb. 21(Tue)	10:00~11:30	Adaptive Polynomials Method for FBMC Nonlinear Power Amplifier Complex Gain	Ditthawat Songratthaset* and Suwat Pattaramalai*	King Mongkut's University of Technology Thonburi, Thailand	
20170378	6A-05	Mobie & Wireless Communication 6	Feb. 21(Tue)	15:00~16:30	AIM - Adaptive Invalidation Mechanism for Wireless Networks	Mangal Sain*, Srikanth Varanasi**, Young-Jin Kang*, Hoon Jae Lee*	*Dongseo University, Korea, **Texas Tech University, LUSA	
20170163	8B-02	Software Platform & Smart Service 3	Feb. 22(Wed)	10:00~11:30	Altruistic Knowledge Sharing in Online Communities	L. G. Pee*	*Nanyang Technological University, Singapore	
20170025	1C-02	Information & Network Security 1	Feb. 20(Mon)	10:00~11:30	An Adaptive HoneyPot Configuration, Deployment and Maintenance Strategy	Daniel Fraunholz, Marc Zimmermann, Hans D. Schotten	German Research Centre for Artificial Intelligence, Germany	
20170360	7A-06	Mobie & Wireless Communication 7	Feb. 21(Tue)	17:00~18:30	An Area-Efficient Multimode FFT Circuit for IEEE 802.11 ax WLAN Devices	Phuong T.K. Dinh**, Leonardo Lanante*, Minh D. Nguyen**, Masayuki Kurosaki* and Hiroshi Ochi*	*Kyushu Institute of Technology, Fukuoka, Japan **Hanoi University of Science and Technology, Vietnam	
20170101	1B-02	Ubiquitous & Sensor Network 1	Feb. 20(Mon)	10:00~11:30	An Efficient ILACS Control Algorithm for Intelligent LED Indoor Lighting System	Sung-IL Hong, Chi-Ho Lin	Semyung University, Korea	
20170174	7A-02	Mobie & Wireless Communication 7	Feb. 21(Tue)	17:00~18:30	An Improved Spectrum Sensing Algorithm Based on Random Matrix Theory	Yuhui SONG, Yigang ZHOU	Harbin Institute of Technology, China	
20170187	7A-03	Mobie & Wireless Communication 7	Feb. 21(Tue)	17:00~18:30	An Industrial IoT MAC Protocol Based on IEEE 802.15.4e TSCH for A Large-Scale Network	Kyeong Tae Kim*, Haeyong Kim*, Huig Park**, Seon-Tae Kim*	*Electronics and Telecommunication Research Institute (ETRI), Korea, **University of Science & Technology, Korea	
20170068	7B-02	Software Platform & Smart Service 2	Feb. 21(Tue)	17:00~18:30	An Open Interactive Survey Platform to Collect and Analyze Users' Privacy Decisions in Pervasive Computing Environments	Seung-Hyun Kim*†, In-Young Ko*, Soo-Hyung Kim†	* Computer Science, KAIST, Korea, *Electronics and Telecommunication Research Institute (ETRI), Korea	
20170200	6D-03	Big Data & Search Engine 3	Feb. 21(Tue)	15:00-16:30	Analysis of HSV-1 and HSV-2 that Cause Herpes Simplex with Apriori Algorithm, Decision Tree, and Support Vector Machine	Juhyun Lee, Yeojin Jung, Seungho Shin, and Taeseon Yoon	HAFS (Hankuk Academy of Foreign Studies), Korea	
20170131	2D-02	Network Management 2	Feb. 20(Mon)	13:00~14:30	Analysis of NDN Repository Architecture and its Improvement for I/O Intensive Applications	Inchan Hwang, Dabin Kim, Young-Bae Ko	Ajou University, Korea	
20170288	6D-04	Big Data & Search Engine 3	Feb. 21(Tue)	15:00-16:30	Analysis of Relation between Aging and Telomere using Datamining – Apriori, Decision Tree, and Support Vector Machine(SVM)	Jongchan LEE, Taeseon YOON	Hankuk Academy of Foreign Studies, Korea	
20170172	5D-05	Big Data & Search Engine 2	Feb. 21(Tue)	13:00-14:30	Analysis on Mannose-binding Lectin as a Treatment of Helicobacter pylori by Using Data Mining	Seojun Kim, Wonjong Lee, Juho Jung, and Taeseon Yoon	HAFS (Hankuk Academy of Foreign Studies), Korea	
20170390	4E-05	Web Service & Future Web 2	Feb. 21(Tue)	10:00~11:30	Analyzing stock price changes using event related Twitter feeds	Satyabrata Aich*, Hee-Cheol Kim*, Mangal Sain**, Bijay Bhaskar Deo***	*Inje University, Korea, **Dongseo University, Korea, ***Syracuse University, USA	
20170279	8C-04	Systems & Software Engineering 3	Feb. 22(Wed)	10:00~11:30	Atomic Multi-database Transaction of WAL Journaling Mode in SQLite	Sungmin Kim, Minseok Kim, Dam Quang Tuan, Youjip Won	Hanyang University, Korea	

20170049	7B-01	Software Platform & Smart Service 2	Feb. 21(Tue)	17:00~18:30	Augmented ontology by handshaking with machine learning	Marie Kim, Hyunjoong Kang, Soonhyun Kwon, YongJoon Lee, Kwihoon Kim, Cheol Sik Pyo	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170073	7C-02	Systems & Software Engineering 2	Feb. 21(Tue)	17:00~18:30	Auto Calibration for Arrayed Penetrating Radar	Dong Kyoo Kim, Youngwoo Choi	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170041	7D-01	Big Data & Search Engine 4	Feb. 21(Tue)	17:00-18:30	Big Data Analysis in Hotel Customer Response and Evaluation based on Cloud	Ming-Shen Jian, Yi-Chi Fang, Yu-Kai Wang, Chih Cheng	National Formosa University, Taiwan	
20170202	2A-03	Mobile & Wireless Communication 2	Feb. 20(Mon)	13:00~14:30	Bit Error Rate Expression of MC-CDMA System in α - μ Fading Channel	Chirawat Kotchasarn	Rajamangala University of Technology Thanyaburi, THAILAND	
20170078	8D-01	Big Data & Search Engine 5	Feb. 22(Wed)	10:00-11:30	Bulb Control in Virtual Reality by Using Leap Motion Somatosensory Controlled Switches	Bing-Yuh Lu*, Chin-Yuan Lin*, Shu-Kuang Chang*, Yi-Yen Lin*, Chun-Hsiang Huang*, Hai-Wu Lee**, Ying-Pyng Lin*	*Tungnan University, Taiwan, **National Taipei University of Technology, Taiwan	
20170096	3B-03	IPTV & Internet Telephony	Feb. 20(Mon)	15:00~16:30	Challenges of Integrating a VoIP Communication System on a VSAT Network	Mamadou Alpha Barry*, James K. Tamgno*, Claude Lishou**, Renaud K. K. Maleka*	*DETIC Department, ESMT, Senegal, **LTI Laboratory, UCAD, Senegal	Must remove page numbers
20170074	3E-02	Web Service & Future Web 1	Feb. 20(Mon)	15:00~16:30	Classification of Service Co-creation Systems: an Integrative Approach	Reihaneh Bidar*, Jason Watson*, Alistair Barros*	*Queensland University of technology, Australia	
20170108	3C-02	Information & Network Security 3	Feb. 20(Mon)	15:00~16:30	Cloud Service Trustworthiness Assessment Based on Cloud Controls Matrix	Jirayu Kanpariyasontorn, Twittie Senivongse	Chulalongkorn University, Thailand	
20170044	5E-02	Web Service & Future Web 3	Feb. 21(Tue)	13:00~14:30	Cluster-based CoAP for Message Queuing in Internet-of-Things Networks	Dong-Kyu Choi, Joong-Hwa Jung, Hyung-Woo Kang, Seok-Joo Koh	Kyungpook National University, Korea	
20170182	4D-04	Big Data & Search Engine 1	Feb. 21(Tue)	10:00-11:30	Comparison of Flavivirus Using Datamining-Apriori, K-means, and Decision Tree Algorithm	Chan woo Kim, and Se Hwan Ahn, and Taeseon Yoon	HAFS (Hankuk Academy of Foreign Studies), Korea	
20170138	8C-02	Systems & Software Engineering 3	Feb. 22(Wed)	10:00~11:30	Compressed Sensing Image Reconstruction Based on Joint Statistical and Structural Priors	Jiahui LI, Shaohua WU, Huan HUANG, Jian JIAO	Harbin Institute of Technology Shenzhen Graduate School, China	
20170181	1E-05	Distributed & Cloud Computing 1	Feb. 20(Mon)	10:00~11:30	Computation Offloading Strategy for Multi User Mobile Data Streaming	Wei Liu, WanJia Gong, Wei Du, Chengming Zou	Wuhan University of Technology, Wuhan, China	
20170190	5C-02	Application & Biometric Security	Feb. 21(Tue)	13:00~14:30	Computational Analysis of Chloroplast DNA and Synechococcus by Apriori and Decision Tree	Kyuhee Jo, Hyemin Lee, Taeseon Yoon	HAFS (Hankuk Academy of Foreign Studies), Korea	Cancel
20170194	7D-03	Big Data & Search Engine 4	Feb. 21(Tue)	17:00-18:30	Constructing a Sorting Machine for Degenerative Cerebrophathia	Seohyun Moon, Bogeum Choi, Jiwoo An, Taeseon Yoon	HAFS (Hankuk Academy of Foreign Studies), Korea	
20170011	6B-01	Software Platform & Smart Service 1	Feb. 21(Tue)	15:00~16:30	Cost-efficient 3D Face Reconstruction from a Single 2D Image	Juseung Yun*, Jaeyoung Lee*, Dongyoon Han*, Jeongwoo Ju*, Junmo Kim*	KAIST (Korea Advanced Institute of Science and Technology), Korea	
20170141	1E-03	Distributed & Cloud Computing 1	Feb. 20(Mon)	10:00~11:30	Declarative Policy Support for Cloud Application Orchestration	Kena Alexander*, Choonwha Lee**, and Seungmok Chai*	Hanyang University, Korea	
20170381	8A-06	Mobile & Wireless Communication 8	Feb. 22(Wed)	10:00~11:30	Design of CMOS Continuous-Time Low-pass Delta-Sigma Modulator for Digital Distributed Antenna System based on IF-over-Fiber Transmission	Seunghyun Jang*, Seok-Bong Hyun*, Kwang-Seon Kim*, Jaeho Jung*, Bonghyuk Park*	*Electronics and Telecommunication Research Institute (ETRI), Korea	
20170051	6A-01	Mobile & Wireless Communication 6	Feb. 21(Tue)	15:00~16:30	Design of Downlink Control Channels for MHN Enhanced System	Dae-Soon Cho†, Ilgyu Kim†	†Electronics and Telecommunication Research Institute (ETRI), Korea	
20170261	3E-05	Web Service & Future Web 1	Feb. 20(Mon)	15:00~16:30	Design of Educational Big Data Application using Spark	Min-Seon Lee, Earl Kim, Choon-Sung Nam, Dong-Ryeol Shin	Sungkyunkwan University, Korea	
20170160	6B-06	Software Platform & Smart Service 1	Feb. 21(Tue)	15:00~16:30	Design of Interfaces among Functionalities for Smart Greenhouse	MiYoung Huh*, JuYoung Park*	ETRI(Electronics and Telecommunications Research Institute), Korea	
20170139	8B-05	Software Platform & Smart Service 3	Feb. 22(Wed)	10:00~11:30	Design of Large Scale Network Simulator using Device Emulator for Internet of Things	Bumho Kim, Haeyong Kim, Seon-Tae Kim	ETRI (Electronics and Telecommunications Research Institute), Korea	
20170090	5D-02	Big Data & Search Engine 2	Feb. 21(Tue)	13:00-14:30	Design of Scene Knowledge base system based on Domain ontology	Wonjoo PARK*, Minho Han*, Jeong-Woo Son*, Sun-Joong Kim*	*ETRI(Electronics and Telecommunications Research Institute), Korea, **Chung-Ang University, Korea	

20170122	5A-02	Mobie & Wireless Communication 5	Feb. 21(Tue)	13:00~14:30	Design of Two-stage Fully-integrated CMOS Power Amplifier for K-band Applications	Hyunjun Kim, Jongseok Bae, Sungjae Oh, Wonseob Lim, and Youngoo Yang	Sungkyunkwan University, Korea	
20170147	5E-05	Web Service & Future Web 3	Feb. 21(Tue)	13:00~14:30	Detection and Recognition of Hand Gesture for Wearable Applications in IoMTW	Anna YANG*, Sung Moon CHUN**, Jae-Gon KIM*	*Korea Aerospace University, Korea, **Insignal, Korea	
20170102	3C-01	Information & Network Security 3	Feb. 20(Mon)	15:00~16:30	Detection as a Service: A SDN Application	Mehrnoosh Monshizadeh**, Vikramajeet Khatri*, Raimo Kantola†	*Nokia Bell Labs, Finland †Aalto University, Finland	
20170375	4E-03	Web Service & Future Web 2	Feb. 21(Tue)	10:00~11:30	Determination of the Optimum Feature Extraction Technique Using Wavelet in Classification Phase of Growing Rice	Muhamad Irsyad Habibi*, Sani M. Isa*, Sidik Mulyono**	*Bina Nusantara University, Indonesia, **Agency for The Assessment and Application of Technology (BPPT), Indonesia	
20170016	8A-01	Mobie & Wireless Communication 8	Feb. 22(Wed)	10:00~11:30	Digital Hopping of Narrowband Waveform using Wideband Frontend	Sumbul Gulzar, Shoab A.Khan, Muhammed Zeeshan	National University of Sciences and Technology, Pakistan	
20170121	5A-01	Mobie & Wireless Communication 5	Feb. 21(Tue)	13:00~14:30	Distant Auscultation System for Detecting Lung Sounds of Patients on Ambulances	Bing-Yuh Lu*, Ming-Kwen Tsai*, Jhen-Chen Wang*, Meng-Lun Hsueh **, Huey-Dong Wu***, Jin-Shin Lai***, Ya-Fen Wu***, Tzer-En Nee *****	*Tungnan University, Taiwan, **Hwa Hwa Hsia University of Technology, Taiwan, *****National Taiwan University Hospital, Taiwan, ****Ming Chi	
20170188	3D-04	NGN, BCN, Future Network	Feb. 20(Mon)	15:00~16:30	Distributed Real-Time Stochastic Optimization based ESS Management Strategy for residential customers	Jeong Sik Kim *, Hyeon Yang*, Seong Gon Choi *	ChungBuk National University, Korea	Must submit copyright
20170070	2E-01	Distributed & Cloud Computing 2	Feb. 20(Mon)	13:00~14:30	Dynamic Replica Creation Strategy Based on File Heat and Node Load in Hybrid Cloud	YaHui Zhao,ChunLin Li,LaYuan Li,Peng Zhang	Wuhan University of Technology, China	
20170145	7C-04	Systems & Software Engineering 2	Feb. 21(Tue)	17:00~18:30	Economic Feasibility Analysis of PV Installation for a CES Apartment Complex	Soyoung PARK*, Wan-Ki PARK*, Il-Woo LEE*	ETRI (Electronics and Telecommunications Research Institute), Korea	
20170155	3A-04	Mobie & Wireless Communication 3	Feb. 20(Mon)	15:00~16:30	Efficient Data Uploading Based on Network Coding in LTE-Advanced Heterogeneous Networks	Phuc CHAU, Toan Duc BUI, Yongwoo LEE, Jitae SHIN	Sungkyunkwan University, Suwon, Korea	
20170267	2E-03	Distributed & Cloud Computing 2	Feb. 20(Mon)	13:00~14:30	Efficient Resource Management for Infrastructure as Service Cloud Providers	Mehdi Keshavarz, Hyenyoung Yoon, Junseok Hwang	Seoul National University, Korea	
20170309	7A-04	Mobie & Wireless Communication 7	Feb. 21(Tue)	17:00~18:30	ELF Wave Propagation Simulation using FDTD Method and Satellite Constellation Concept for Early Warning System	Rahmi Rahmatillah	Kyushu Institute of Technology, Japan	
20170006	1A-01	Mobie & Wireless Communication 1	Feb. 20(Mon)	10:00~11:30	End-to-End (e2e) Quality of Service (QoS) For IPv6 Video Streaming	Rosilah Hassan*, Rana Jabbar*	Universiti Kebangsaan Malaysia, MALAYSIA	
20170294	5C-04	Application & Biometric Security	Feb. 21(Tue)	13:00~14:30	Energy Efficient Middleware: Design and Development for Mobile Applications	Fatimah Abdualaziz Almusalli*, Noor Zaman*, Raihan Rasool**	*King Faisal University, Saudi Arabia, Victoria University Melbourne, Australia	
20170348	8A-05	Mobie & Wireless Communication 8	Feb. 22(Wed)	10:00~11:30	Enhancing Limit MAC Performance for IEEE 802.11 Wireless LANs	Woo-Yong Choi	Dong-A University, KOREA	
20170372	8D-05	Big Data & Search Engine 5	Feb. 22(Wed)	10:00-11:30	Epidemiological Analysis of MERS-CoV Using NN and SVM in Respect to Applicability of AI in Multiple Classes	Soyoung Hong, Sungwoo Choi, Donghyun Kim, and Taeseon Yoon	Hankuk Academy of Foreign Studies, Korea	
20170033	8C-01	Systems & Software Engineering 3	Feb. 22(Wed)	10:00~11:30	Estimating Number of Organs using Erlang's B & C-Formulas	James K. Tamgno*, Mamadou Alpha Barry*, Simplicie E. Gngang*, Claude Lishou**	*ESMT-DETI-C-LTI, Senegal, **LTI Laboratory, Senegal	Must remove page numbers
20170087	1E-01	Distributed & Cloud Computing 1	Feb. 20(Mon)	10:00~11:30	Evaluation of Task Clustering Algorithm by FFT for Heterogeneous Distributed System	Shuya Hashimoto*, Emilia Ndilokelwa Weyulu*, Kazuo Hajikano**, Hidehiro Kanemitsu***, Moo Wan Kim*	*Tokyo University of Information Sciences, Japan, **Daiichi Institute of Technology, Japan, ***Waseda University, Japan	
20170203	3E-04	Web Service & Future Web 1	Feb. 20(Mon)	15:00~16:30	Evaluation of Wavelet Fusion Method On Land Cover Classification In Bodetabek Area, Indonesia	Sani M. Isa*, Suharjito*	*Bina Nusantara University, Indonesia	
20170303	2C-03	Information & Network Security 2	Feb. 20(Mon)	13:00~14:30	Evolving Neural Network Intrusion Detection System for MCPS	Nishat Mowla*, Inshil Doh*, KiJoon Chae*	*Ewha Womans University, Korea	
20170080	2B-01	Ubiquitous & Sensor Network 2	Feb. 20(Mon)	13:00~14:30	Experimental Realization of Multi-Service RoF system using OCS-PolMux Techniques	M. H. Mohamad Nor*, T. Kanesan*, F. Maskuriy*, A.Yusof*, F.A.Fatah* and S. B. A. Anas**	*Telekom Research & Development (TM R&D), Malaysia, **Universiti Putra Malaysia, Malaysia	
20170077	2C-02	Information & Network Security 2	Feb. 20(Mon)	13:00~14:30	Exploring the Cybercrime Investigation Framework of ATM Heist from ISO/IEC 27043:2015	Da-Yu Kao	Central Police University, Taiwan	

20170057	7C-01	Systems & Software Engineering 2	Feb. 21(Tue)	17:00~18:30	Fault Detection and Fault Tolerant System for Smart Factories	**Prajakta Jadhav, **In-Geol Chun	*Korea University of Science and Technology (UST), Korea, †Electronics and Telecommunications Research Institute (ETRI), Korea	
20170013	6D-01	Big Data & Search Engine 3	Feb. 21(Tue)	15:00-16:30	Fine Grained Classification of Internet Multimedia Traffics	Yu-ning DONG, Kai WANG	Nanjing University of Posts and Telecommunications (NUPT), China	
20170396	8B-04	Software Platform & Smart Service 3	Feb. 22(Wed)	10:00~11:30	Footprint based Workflow Model for Analytical Task Automation	Minjae Park*, Jin Ma**, Hyunah Kim***, Hyun Ahn***, Kwnaghoon Pio Kim***	*BISTel, Inc., Korea, **KISTI, Korea, ***Kyonggi University, Korea	
20170212	5C-03	Application & Biometric Security	Feb. 21(Tue)	13:00~14:30	Forensic Tool for Wireless Surveillance Camera	Reem Alshalawi, Turki Alghamdi	Umm Al-Qura University, Saudi Arabia	
20170084	4E-02	Web Service & Future Web 2	Feb. 21(Tue)	10:00~11:30	Framework of Emotion for the Singularity in a Social Context	Toshihiko Yamakami	ACCESS, Japan	
20170032	4D-02	Big Data & Search Engine 1	Feb. 21(Tue)	10:00-11:30	Gateway-based Access Interface Management in Big Data Platform	Minh Chau Nguyen*, Hee Sun Won*	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170150	6A-02	Mobie & Wireless Communication 6	Feb. 21(Tue)	15:00~16:30	Generalized Stable Marriage-Assisted Power and Sub-band Allocation for Energy Efficient OFDMA-based Uplink	Xiaoxiao Chen*, Peng Gong*, Haiqiao Wu*, Xiang Gao*, Duk Kyung Kim**	*Beijing Institute of Technology, China, **Inha University, Korea	
20170050	6C-03	Systems & Software Engineering 1	Feb. 21(Tue)	15:00~16:30	Hardware Common Platform for Smart Networks : Management of NFB	Jihyun Lee*, Myung-Ki Shin*, Sungil Lim**, Sung-Hyuk Park***	*ETRI(Electronics and Telecommunications Research Institute), Korea, **ubiQuoss. Inc., Korea, ***WOORINET, Seoul, Korea	
20170018	4D-01	Big Data & Search Engine 1	Feb. 21(Tue)	10:00-11:30	Heterogeneous Reconfigurable Design for TreePM N-body Simulation	Linlin Zheng*, Xi Jin*, Bo Peng*, Tianqi Wang*	University of Science and Technology of China, China	
20170191	2E-02	Distributed & Cloud Computing 2	Feb. 20(Mon)	13:00~14:30	Hotspot Management Strategy for Real-Time Log Data in MongoDB	Boonyalit Oonhawatt, Natawut Nupairoj	Chulalongkorn University, Thailand	
20170315	8B-03	Software Platform & Smart Service 3	Feb. 22(Wed)	10:00~11:30	Human Gesture Recognition Performance Evaluation for Service Robots	Mi-Young Cho, Young-Sook Jeong	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170045	4A-02	Mobie & Wireless Communication 4	Feb. 21(Tue)	10:00~11:30	IA-Based Hybrid Beamforming Design in MIMO Interference Channel	Ji-Ho Lee*, Myeong-Jin Kim**, and Young-Chai Ko*	*Korea University, Korea, **LG Electronics, Korea	
20170042	5E-01	Web Service & Future Web 3	Feb. 21(Tue)	13:00~14:30	IDMP-VLC: IoT Device Management Protocol in Visible Light Communication Networks	Cheol-Min Kim, Sang-Il Choi, Seok-Joo Koh	Kyungpook National University, Korea	
20170161	5D-04	Big Data & Search Engine 2	Feb. 21(Tue)	13:00-14:30	Implementation of Robot Journalism by Programming Custombot using Tokenization and Custom Tagging	Naeun Lee, and Kirak Kim, Taeseon Yoon	HAFS (Hankuk Academy of Foreign Studies), Korea	
20170034	6C-02	Systems & Software Engineering 1	Feb. 21(Tue)	15:00~16:30	Implementations of automated testing environment for distributed multimedia streaming applications	Wook Hyun*, Ju Young Park*	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170105	1A-05	Mobie & Wireless Communication 1	Feb. 20(Mon)	10:00~11:30	Improved PTS Method with New Weighting Factor Technique for FBMC-OQAM systems	Amnart HANPRASITKUM*, Arjin NUMSOMRAN*, Pornpawit BOONSRI MUANG** and Pisit BOONSRI MUANG*	*King Mongkut's Institute of Technology, Thailand, **Suan Sunandha Rajabhat University, Thailand	
20170324	7A-05	Mobie & Wireless Communication 7	Feb. 21(Tue)	17:00~18:30	Improving Latency Using Codes in Mission-Critical Communication	Sunghyun Kim* and Jee-Hyeon Na*	*Electronics and Telecommunication Research Institute (ETRI), Korea	
20170285	2A-04	Mobie & Wireless Communication 2	Feb. 20(Mon)	13:00~14:30	Incremental Hybrid DAF Scheme based Cooperative Spatial Modulation	Na Zhang*, Zhiqian Bai*, Qi Zhang*, Shangqian Sun*, and Kyungsup Kwak**	*Shandong University Jinan, China, **INHA University, Korea	
20170063	4C-02	Information & Network Security 4	Feb. 21(Tue)	10:00~11:30	Inferring OpenFlow Rules by Active Probing in Software-defined Networks	Po-Ching Lin, Ping-Chung Li, Van Linh Nguyen	National Chung Cheng University, Taiwan	
20170342	1D-04	Network Management 1	Feb. 20(Mon)	10:00~11:30	Intelligent Driver Safety System Using Fatigue Detection	Samra Naz*, Aneeqa Ahmed*, Qurat ul Ain*, Irum Naushin**	*National University of Sciences and Technology Islamabad, **International Islamic University	
20170183	5C-01	Application & Biometric Security	Feb. 21(Tue)	13:00~14:30	Intensified Analysis and Comparison of 5 Flavivirus with the use of Decision Tree and Support Vector Machine (SVM)	Eujin Yang, and Bokyoung Gu, and Taeseon Yoon	HAFS (Hankuk Academy of Foreign Studies), Korea	
20170024	6B-03	Software Platform & Smart Service 1	Feb. 21(Tue)	15:00~16:30	Interactive Media Creation by Reusing Video Contents	Minho Han, Wonjoo Park, Jeong-Woo Son, Sun-Joong Kim	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170054	5E-03	Web Service & Future Web 3	Feb. 21(Tue)	13:00~14:30	IOT base Smart Home Appliances by using Cloud Intelligent Tetris Switch	Ming-Shen Jian, Jun-Yi Wu, Jing-Yan Chen, Yue-Jyun Li, Yi-Cheng Wang, Hao-Yi Xu	National Formosa University, Taiwan	

20170258	3C-03	Information & Network Security 3	Feb. 20(Mon)	15:00~16:30	IOT Smart Bell Notification System Design and Implementation	WOO-HYUN PARK, YUN-GYUNG CHEONG	Sungkyunkwan University, Korea	
20170142	5A-05	Mobie & Wireless Communication 5	Feb. 21(Tue)	13:00~14:30	LDPC convolutional codes Coded cooperation based on Puncturing	Wenhe JIN, Shaohua WU, Erpeng YANG, Jian JIAO	Harbin Institute of Technology, China	
20170012	3A-01	Mobie & Wireless Communication 3	Feb. 20(Mon)	15:00~16:30	Least Congested Channel Recommendation for Uncoordinated Access Point	Ahmad Tajuddin Samsudin, Norman Fadhil Idham Muhammad, Awang Ibrahim Awang Daud, Syaiful Nizam Yahya, Khalil Huzairi Ahmad	TM Research & Development Sdn. Malaysia	
20170159	6A-04	Mobie & Wireless Communication 6	Feb. 21(Tue)	15:00~16:30	Lens MIMO Based Millimeter Wave Broadcast Channel	Kushal Anand, Erry Gunawan, Yong Liang Guan	Nanyang Technological University, Singapore	
20170097	7C-03	Systems & Software Engineering 2	Feb. 21(Tue)	17:00~18:30	LevelDB-Raw: Eliminating File System Overhead for Optimizing Performance of LevelDB Engine	Hak-Su Lim and Jin-Soo Kim	Sungkyunkwan University, Korea	
20170198	7D-04	Big Data & Search Engine 4	Feb. 21(Tue)	17:00-18:30	Long Text Segmentation by String Vector based KNN	Taeho Jo	Hongik University, Korea	
20170065	1C-04	Information & Network Security 1	Feb. 20(Mon)	10:00~11:30	LTE for Military Communication - Business Models and Vulnerabilities	Bodil Farsund*, Anne-Marie Hegland**, Frode Lillevoid*	*Norwegian Defence Research Establishment (FFI), Norway, **Kongsberg Defence & Aerospace, Norway	
20170040	4E-01	Web Service & Future Web 2	Feb. 21(Tue)	10:00~11:30	Managing IoT Devices using Blockchain Platform	Seyoung Huh*, Sangrae Cho*, Soohyung Kim*	*Electronics and Telecommunication Research Institute (ETRI), Korea	
20170170	7A-01	Mobie & Wireless Communication 7	Feb. 21(Tue)	17:00~18:30	Measurement and Analysis for 3.5GHz Small-cell Environment with Time and Spatial Ratio	Jinhyung Oh, Byungjin Lee**, Kyungseok Kim** and Young Jun Chong	*Electronics and Telecommunication Research Institute (ETRI), Korea, **Chungbuk National University, Korea	
20170363	3A-05	Mobie & Wireless Communication 3	Feb. 20(Mon)	15:00~16:30	Media Independent Service for Software-Defined Radio Access Networks	Hyeong Ho Lee*, **, Jin Seek Choi***	*Electronics and Telecommunication Research Institute (ETRI), Korea, **UST (University of Science and Technology), Korea, ***Hanyang University, Korea	
20170026	3D-01	NGN, BCN, Future Network	Feb. 20(Mon)	15:00~16:30	Model of Transport SDN for Path Computation	Chang-Gyu LIM*, Soo-Myung PAHK*	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170116	8B-01	Software Platform & Smart Service 3	Feb. 22(Wed)	10:00~11:30	Modeling of manufacturing software catalogue for interoperability in manufacturing systems	Sangkeun YOO*, Hyunjeong LEE*, Yong-woon KIM*, Hoon CHOI**	*ETRI (Electronics and Telecommunications Research Institute), Korea	
20170439	2B-04	Ubiquitous & Sensor Network 2	Feb. 20(Mon)	13:00~14:30	Modeling Process-Aware Internet of Things Services over an ARDUINO Community Computing Environment	Meesun Kim, Kyoungsook Kim and Kwanghoon Pio Kim	KYONGGI UNIVERSITY, Korea	
20170208	1E-04	Distributed & Cloud Computing 1	Feb. 20(Mon)	10:00~11:30	Multilevel cloud based Tactile Internet system	Abdelhamied A. Ateya*, Anastasia Vybornova*, Ruslan Kirichek*, Andrey Koucheryavy*	*State University of Telecommunication, Russia	
20170111	7B-05	Software Platform & Smart Service 2	Feb. 21(Tue)	17:00~18:30	Multi-Object Tracker Using Kernelized Correlation Filter Based on Appearance and Motion Model	Kwang-Yong Kim*, Jun-Seok Kwon**, Kee-Seong Cho*	*ETRI(Electronics and Telecommunications Research Institute), Korea, **Chung-Ang University, Korea	
20170007	1C-01	Information & Network Security 1	Feb. 20(Mon)	10:00~11:30	Network Abnormal Behavior Analysis System	Sunoh Choi, Yangseo Choi, Jooyoung Lee, Jonghyun Kim and Ikkyun Kim	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170129	2C-05	Information & Network Security 2	Feb. 20(Mon)	13:00~14:30	Network coordinate system using non-negative matrix factorization based on KL divergence	Lixiang Chai*, Xiangyang Luo*, Fan Zhao*, Mingyue Li*, Siqi Liu*	*Zhengzhou Information Science and Technology Institute, China	
20170067	2C-01	Information & Network Security 2	Feb. 20(Mon)	13:00~14:30	New Qubits Steganography Algorithm to Conceal a Secret File In Compressed edge detection operators Based on Optimized Adaptive Neural Networks	YAHYA E. A. AL-SALHI, LU SONGFENG, Arkan A.G Al-Hamodi, Adel H.AL-Mter and Zhigang Zhang	Huazhong University of Science and technology, China	
20170048	1D-03	Network Management 1	Feb. 20(Mon)	10:00~11:30	NFP Brokering for VNF Chaining Models	TaeYeon Kim and BhumCheol Lee	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170255	1C-05	Information & Network Security 1	Feb. 20(Mon)	10:00~11:30	Non-Redundant Indirect Trust Search Algorithm Based on a Cross-Domain Trust Model in Content Delivery Network	Shi Li, Inshil Doh, Kijoon Chae	Ewha Womans University, Korea	
20170036	1D-01	Network Management 1	Feb. 20(Mon)	10:00~11:30	On the Effects of Resource Usage Ratio on Data Rate in LTE Systems	Sunghyun Hwang, Seungkeun Park	*Electronics and Telecommunication Research Institute (ETRI), Korea	
20170035	1C-03	Information & Network Security 1	Feb. 20(Mon)	10:00~11:30	On the Security of Two Sealed-Bid Auction Schemes	Kin-Woon Yeow, Swee-Huay Heng and Syh-Yuan Tan	Multimedia University, Malaysia	
20170099	1A-04	Mobie & Wireless Communication 1	Feb. 20(Mon)	10:00~11:30	On the Spectral Analysis of Discrete-Time Faster-Than-Nyquist Signaling	Sangwoon Kwak, Jounil Yun, Hyoungsoo Lim and Namho Hur	Electronics and Telecommunication Research Institute (ETRI), Korea	

20170143	2A-02	Mobie & Wireless Communication 2	Feb. 20(Mon)	13:00~14:30	On-Demand Anchor-based Mobility Support Method for Named Data Networking	Dabin Kim* and Young-Bae Ko*	*Ajou University, Korea	
20170128	3E-03	Web Service & Future Web 1	Feb. 20(Mon)	15:00~16:30	Open Government Data Assessment Model: An indicator development in Thailand	Chatipot Srimuang, Nagul Cooharajanone, Uthai Tanlamai, Achara Chandrachai	Chulalongkorn University, Thailand	
20170081	1A-02	Mobie & Wireless Communication 1	Feb. 20(Mon)	10:00~11:30	Operating Frequency Improvement on FPGA Implementation of a Pipeline Large FFT Processor	Ting-wai Siu!, Chiu-Wing Sham! and Francis C. M. Lau!†	*Hong Kong Polytechnic University, Hong Kong, †Hong Kong Polytechnic University Shenzhen Research Institute, China	
20170185	3D-03	NGN, BCN, Future Network	Feb. 20(Mon)	15:00~16:30	Performance Analysis of Broadband Power Line Communications with OFDM Transmission	Chirawat Kotchasarn	Rajamangala University of Technology Thanyaburi, THAILAND	
20170144	8C-03	Systems & Software Engineering 3	Feb. 22(Wed)	10:00~11:30	Performance Comparison of MRTOS and VxWorks in MultiBench Benchmark Suite	Jeong-Woo Lee, Sang Cheol Kim, Duk-Kyun Woo, Yu-Seung Ma, Pyeongsoo Mah	ETRI (Electronics and Telecommunications Research Institute), Korea	
20170046	4A-03	Mobie & Wireless Communication 4	Feb. 21(Tue)	10:00~11:30	Performance Evaluation of DVB-S2X Satellite Transmission according to Sharp Roll off Factors	JongKeun Lee*, **, Daelg Chang**	*Korea University of Science & Technology (UST), Korea, **Electronics and Telecommunication Research Institute (ETRI), Korea	
20170015	4A-01	Mobie & Wireless Communication 4	Feb. 21(Tue)	10:00~11:30	Performance of PLC Synchronization for DOCSIS 3.1 Receiver	Jaeho LEE*, Younok PARK*, Seungchan BANG*	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170055	3E-01	Web Service & Future Web 1	Feb. 20(Mon)	15:00~16:30	Photo Alive! Application and Method for Intergenerational Social Communication	Masooma Zehra SYEDA*, **, Yong-Moo KWON*, **	*KIST(Korea Institute of Science and Technology), Korea, **UST(University of Science and Technology), Korea	
20170333	8A-03	Mobie & Wireless Communication 8	Feb. 22(Wed)	10:00~11:30	Practical Access Control Protocols (PACPs) for Wireless Sensor Networks: Analysis of Security Pitfalls	Mangal Sain, Hyun Ho Kim, Hoon Jae Lee	Dongseo University, Korea	
20170076	3B-02	IPTV & Internet Telephony	Feb. 20(Mon)	15:00~16:30	Practical Packet Analysis: Exploring the Cybercriminal behind the LINE Voice Calls	Da-Yu Kao, Wen-Ying Wu	Central Police University, Taiwan	
20170132	5E-04	Web Service & Future Web 3	Feb. 21(Tue)	13:00~14:30	Proposed Classification of Blockchains Based on Authority and Incentive Dimensions	Hitoshi Okada*, Shigeichiro Yamasaki**, Vanessa Bracamonte*	*National Institute of Informatics, Japan, **Kindai University, Japan	
20170387	4E-04	Web Service & Future Web 2	Feb. 21(Tue)	10:00~11:30	Protecting Individuals from the Suitable Target of Cyberbullying	Benjamaporn Kluaypa, Da-Yu Kao	Central Police University, Taiwan, ROC	
20170130	5A-03	Mobie & Wireless Communication 5	Feb. 21(Tue)	13:00~14:30	Random-Permutation-Matrix-Based Cyclically-Coupled LDPC Codes	Francis C. M. Lau*†, Fanlu Mo*, Wai M. Tam* and Chiu-Wing Sham*	*Hong Kong Polytechnic University, Hong Kong, †Hong Kong Polytechnic University Shenzhen Research Institute, China	
20170168	4C-04	Information & Network Security 4	Feb. 21(Tue)	10:00~11:30	Re-identification of medical records by optimum quasi-identifiers	Yong Ju LEE*, Kyung Ho LEE*	*Korea University, Korea	
20170151	4B-03	ITS & Telematics 1	Feb. 21(Tue)	10:00~11:30	Reliable Estimation of Disparity Map in Textureless Region of Roadway	Jai-Eun Kim, Ki-Doo Kim, and Kyeong-Hoon Jung	Kookmin University, Korea	
20170071	1B-01	Ubiquitous & Sensor Network 1	Feb. 20(Mon)	10:00~11:30	Rethinking of Feature Selection Method for Room-Level Localization using Public APs	Youngsam Kim* and Soohyung Kim*	*Electronics and Telecommunication Research Institute (ETRI), Korea	
20170088	4A-05	Mobie & Wireless Communication 4	Feb. 21(Tue)	10:00~11:30	RFID Indoor Localization System for Tag and Tag-free Target based on Interference	Meng Liu*, Hongjun Wang*, Yang Yang*, Yajun Zhang*, Ligong Li**, Jianhua Xu**, Yao Du**, Liang Ma*, Na Wang**	*Shandong University, China, **The 41st Institute of China Electronics Technology Group Corporation, China	
20170178	7D-02	Big Data & Search Engine 4	Feb. 21(Tue)	17:00-18:30	ROUTE/DASH Server system development for Real-time UHD broadcasting	Myungseok Ki, Jinwuk Seok, Hui Yong Kim	ETRI(Electronics and Telecommunications Research Institute), Korea	
20170039	4D-03	Big Data & Search Engine 1	Feb. 21(Tue)	10:00-11:30	Scene Boundary Detection with Graph embedding	Jeong-Woo Son, Wonjoo Park, Minho Han, Sun-Joong Kim	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170133	6E-02	Web Service & Future Web 4	Feb. 21(Tue)	15:00~16:30	Scheme to Guarantee IP Continuity for NFC-based IoT Networking	Younghwan Choio, Yunchul Choi, Dongmyoung Kim, Jungsoo Park	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170126	2D-01	Network Management 2	Feb. 20(Mon)	13:00~14:30	SDN-Enabled Network Virtualization for Industry 4.0 Based on IoTs and Cloud Computing	Yi-Wei Ma*, Yung-Chiao Chen**, *** and Jiann-Liang Chen**	*Shanghai Maritime University, China, **National Taiwan University of Science and Technology, Taiwan, ***National Taiwan University, Taiwan	
20170330	2C-04	Information & Network Security 2	Feb. 20(Mon)	13:00~14:30	Security Analysis of Hybrid Security Mechanisms for Heterogeneous Sensor Networks	Mangal Sain, Ki Hwan Kim and Hoon Jae Lee	Dongseo University, Korea	
20170405	5C-05	Application & Biometric Security	Feb. 21(Tue)	13:00~14:30	Security Analysis of Samsung Knox	Munkhзориг Dorjmyagmar, MinChang Kim, Hyoungshick Kim	Sungkyunkwan University, Korea	

20170273	4C-05	Information & Network Security 4	Feb. 21(Tue)	10:00~11:30	Security Attacks on Information Centric Networking for Healthcare System	B Balaji Naik*, Dhananjay Singh**, A. B. Samaddar*, Hoon-Jae Lee***	*National Institute of Technology (NIT), India, **Hankuk University of Foreign Studies (HUFS), Korea, ***Dongseo University (DSU), Korea	
20170152	5D-03	Big Data & Search Engine 2	Feb. 21(Tue)	13:00-14:30	Segmentation of Group-Housed Pigs using Concave-Points and Edge Information	*Hansol Baek, *Yeonwoo Chung, *Miso Ju, *Yongwha Chung, and *Daihee Park	*Korea University, Korea	
20170106	4C-03	Information & Network Security 4	Feb. 21(Tue)	10:00~11:30	Self Configuring Netflow Anomaly Detection using Cluster Density Analysis	Kieran Flanagan*, ***, Enda Fallon*, Abir Awad**, Paul Connolly***	*Athlone Institute of Technology, Ireland, University of South Wales, UK, *****The NPD Group, Inc, Ireland	
20170107	1B-03	Ubiquitous & Sensor Network 1	Feb. 20(Mon)	10:00~11:30	Semi-Supervised Radio Signal Identification	Timothy J. O'Shea*, Nathan West**, Mathew Vondral* and T. Charles Clancy*	*Virginia Tech, USA, **Oklahoma State University, USA	
20170089	6C-05	Systems & Software Engineering 1	Feb. 21(Tue)	15:00~16:30	Sensory Effect Representation for Barrier-free Broadcasting Service	Ji Hoon Choi*, Chung Hyun AHN*, Jeongil Seo*, Ohseok Kwon**	*ETRI(Electronics and Telecommunications Research Institute), Korea, **Chungnam National University, Korea	
20170393	7C-05	Systems & Software Engineering 2	Feb. 21(Tue)	17:00~18:30	Server for SQLite Database: Multithreaded HTTP Server with Synchronized Database Access and JSON Data-Interchange	Noprianto, Benfano Soewito, Sani Muhamad Isa, Karto Iskandar, Ford Lumban Gaol, Raymond Kosala	Bina Nusantara University, Indonesia	
20170053	5B-01	ITS & Telematics 2	Feb. 21(Tue)	13:00~14:30	Service Function Path Adaptation in SFC	*Seungik Lee, **Sangheon Pack, *Myung-Ki Shin	*Electronics and Telecommunication Research Institute (ETRI), Korea, **Korea University, Korea	
20170125	3D-02	NGN, BCN, Future Network	Feb. 20(Mon)	15:00~16:30	Service Model for Smart Farming Services at the Pre-production Stage	Soong-Hee Lee*, Dong-Il Kim**, Sok-Pal Cho***, Heechang Chung**	*Inje University, Korea, **Donggeui University, Korea, *****Korea Institute of Science and Technology Information, Korea	
20170047	3A-02	Mobile & Wireless Communication 3	Feb. 20(Mon)	15:00~16:30	Slot based Radio Resource Management for Low Latency in LTE-Advanced System	Yousun Hwang, Jeasung Shin	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170432	2B-03	Ubiquitous & Sensor Network 2	Feb. 20(Mon)	13:00~14:30	Software-Defined Architecture for Flying Ubiquitous Sensor Networking	Ruslan Kirichek*, Andrei Vladyko*, Alexander Paramonov*, Andrey Koucheryavy*	*The Bonch-Bruевич State University of Telecommunication, Russia	
20170028	4B-01	ITS & Telematics 1	Feb. 21(Tue)	10:00~11:30	Standards Analysis on Korean Positioning System for Public Safety	Jaehyuk Choi, Myungin Ji, Jooyoung Kim, Youngsu Cho	Electronics and Telecommunication Research Institute (ETRI), Korea	
20170196	6D-02	Big Data & Search Engine 3	Feb. 21(Tue)	15:00-16:30	String Vector based AHC for Text Clustering	Taeho Jo	Hongik University, Korea	
20170195	4D-05	Big Data & Search Engine 1	Feb. 21(Tue)	10:00-11:30	String Vector based KNN for Text Categorization	Taeho Jo	Hongik University, Korea	
20170345	6E-03	Web Service & Future Web 4	Feb. 21(Tue)	15:00~16:30	Survey on Security in Internet of things: state of the art and challenges	Mangal Sain, Young Jin Kang, Hoon Jae Lee	Dongseo University, Busan, Korea	
20170038	4C-01	Information & Network Security 4	Feb. 21(Tue)	10:00~11:30	Testing of Utilities for Finding Vulnerabilities in the Machine Code of Telecommunication Devices	Mikhail Buinevich*, Konstantin Izrailov*, Andrei Vladyko*	*The Bonch-Bruевич Saint-Petersburg State University of Telecommunications, Russia	
20170091	3C-05	Information & Network Security 3	Feb. 20(Mon)	15:00~16:30	The Application of Quantum Communication Technology used in Electric Power Information & Communication System Confidential Transmission	Liu Junwen*, Zhao Ziyang*, Hao Jiakai**	* State Grid Information & Telecommunication Branch, China, ** State Grid Beijing Electric Power Company, China	
20170043	1D-02	Network Management 1	Feb. 20(Mon)	10:00~11:30	The Architecture of Generic VNF using TOSCA	Byung Yun Lee*, Bhum Cheol Lee*	*Electronics and Telecommunication Research Institute (ETRI), Korea	
20170318	8A-02	Mobile & Wireless Communication 8	Feb. 22(Wed)	10:00~11:30	The Implementation of Spectrum Sensing and Spectrum Allocation on Cognitive Radio	Pitcha Rungsawang, Amnach Khawne	King Mongkut's Institute of Technology Ladkrabang, Thailand	
20170079	7B-03	Software Platform & Smart Service 2	Feb. 21(Tue)	17:00~18:30	To Reduce Signaling Cost for Smart Grid Alarm System by Using Caching Mechanism	Jeong Sik Kim*, Soon Ki Eun**, Seong Gon Choi*	*Chungbuk National University, Korea	
20170109	2B-02	Ubiquitous & Sensor Network 2	Feb. 20(Mon)	13:00~14:30	Towards Realizing the Importance of Placing Fog Computing Facilities at the Central Office of a PON	S.H. Shah Newaz*, Wida Susanty binti Haji Suhaili*, Gyu Myoung Lee**, ***, Mohammad Rakib Uddin*, Alalddin Fuad Yousif Mohammed**, and Jun Kyun Choi**	*Universiti Teknologi Brunei (UTB), Brunei, **Korea Advanced Institute of Science and Technology (KAIST), Korea, ***Liverpool John Moores University,	
20170098	1A-03	Mobile & Wireless Communication 1	Feb. 20(Mon)	10:00~11:30	Trade-Off between Spectral Efficiency and Energy Efficiency in Multi-Cell Uplink Networks	Hyunwoo Nam and Bang Chul Jung	Chungnam National University, Korea	
20170339	8A-04	Mobile & Wireless Communication 8	Feb. 22(Wed)	10:00~11:30	Uplink frame structure of Short TTI system	Eunjeong Shin*, Gwendo Jo**	*Electronics and Telecommunications Research Institute, Korea **Second Company, Korea	
20170064	6C-04	Systems & Software Engineering 1	Feb. 21(Tue)	15:00~16:30	Various Green Energy Sources in Smart Grid Power Network based on Cloud	Ming-Shen Jian, Yen-Lung Chen, Rui-Wei Tong, Yu-Huei Lin, Chih Cheng	National Formosa University, Taiwan	

20170312	2D-03	Network Management 2	Feb. 20(Mon)	13:00~14:30	VNF management method using VNF Group Table in Network Function Virtualization	Chan-Ho Park, Dong-Ryeol Shin	Sungkyunkwan University, Korea	
20170205	1B-04	Ubiquitous & Sensor Network 1	Feb. 20(Mon)	10:00~11:30	Wireless monitoring method for diabetic foot temperature	D.Erdenechimeg, D.Enkhzul, O.Munkhtamir, B.Enkhbat	Mongolian University of Science and Technology, Mongolia	