

ICTACT2018 Advance Program in Paper Number Order - 18, January, 2018

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**** This is the final presentation schedule and can not be modified. All speakers are required to present on time.**

PaperNo	Session	Session Title	Date	Time	Paper Title	Author(s)	Organization(s)	CRF compliance check
20180023	3B-05	AI, Deep Learning, Big Data 3	12-Feb-18	14:30 - 16:00	Graph based KNN for Text Categorization	Taeho Jo	Hongik University, Korea	OK
20180026	5B-01	AI, Deep Learning, Big Data 5	13-Feb-18	13:00 - 14:30	Graph based KNN for Text Summarization	Taeho Jo	Hongik University, Korea	OK
20180033	6B-06	System & Software Engineering	13-Feb-18	15:00 - 16:30	Exploration and Comparison of Personality Traits of Software Quality and Software Project Managers using Big Five Inventory System in Pakistan's IT Industry	Syed Muhammad Shoaib*, Alina Murad*, Ali Ahsan**, Zeeshan Anwar***	*Center for Advanced Studies in Engineering (CASE), **Foundation University, ***National University of Sciences and Technology, Pakistan	Author Profile Missing in the Final Full Paper
20180039	6C-01	Software Platform & Smart Service 1	13-Feb-18	15:00 - 16:30	Web Services for Mobile Devices from One Server	Mirsat Yesiltepe	Yildiz Technical University, Turkey	OK
20180043	3A-03	Wireless Communication 3	12-Feb-18	14:30 - 16:00	Experimental Assessment of Battery Lifetime for Commercial Off-The-Shelf NB-IoT Module	Chun Yeow Yeoh, Abdullah bin Man*, Qazi Mamoon Ashraf**, Ahmad Kamsani Samingan*	Solution Architecture Lab, Connected Mobility Lab*, Backend Lab**, Malaysia	OK
20180046	3C-04	Information & Network Security 2	12-Feb-18	14:30 - 16:00	A Quantum Secure Direct Communication Protocol Based on Six-qubit Cluster State	Danjie SONG, Chun LONG, Wei WAN, Jing ZHAO, Shaojie WANG	Chinese Academy of Sciences, China	OK
20180055	2A-02	Wireless Communication 2	12-Feb-18	12:30 - 14:00	An Approach to Evaluating the Number of Potential Cycles in an All-one Base Matrix	Sheng Jiang and Francis C. M. Lau	Hong Kong Polytechnic University, Hong Kong	OK
20180058	7A-01	Optical Network	13-Feb-18	17:00 - 18:30	Design and Implementation of Optical Transport Network Models with Path Computation	Chang-Gyu LIM*, Moonsub SONG*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180061	2A-03	Wireless Communication 2	12-Feb-18	12:30 - 14:00	Duality of I/Q Imbalance in RF Mixer: Application to the L1-norm Based Estimation and Generalization to the SVD Based Model	Ealwan Lee*, Member, IEEE	*GCT Semiconductor Inc., Korea	OK
20180064	6D-01	Web Service & Future Web 3	13-Feb-18	15:00 - 16:30	Ultimate Performance of Wi-Fi Access Points With Multiple Interfaces: An Application of Software Defined Network	Yu-Ju Lee, Wen-Wei Liao	*University of Colorado Boulde, Boulder, USA	OK
20180070	1B-02	AI, Deep Learning, Big Data 1	12-Feb-18	10:00 - 11:30	Non-Invasive Blood Pressure Estimation from Photoplethysmography Signals using Artificial Neural Networks	Nicolas Bersano, Horacio Sanson	Allm Inc., Japan	OK
20180073	6C-02	Software Platform & Smart Service 1	13-Feb-18	15:00 - 16:30	A Study on the Establishment of Open Source Website for Open Smart Broadcast Platform	Sang Kwon Kim*, Deokkyu Jung*, Sang-Yun Lee*, Sun-Joong Kim*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180076	5D-01	Web Service & Future Web 2	13-Feb-18	13:00 - 14:30	Method of Reliable MPTCP	Jongkuk Lee, HeaSook Park	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180079	8A-01	Network Management & Operation	14-Feb-18	10:00 - 11:30	Dynamic Bandwidth Allocation for Switching FCAE-1553 Network in Avionics System	Yueying Zhan*, Liqian Wang**, Shaojun Wu*, Suzhi Cao*, Jianhua He*	*Chinese Academy of Science, **Beijing University of Posts and Telecommunications, China	OK

20180085	1B-03	AI, Deep Learning, Big Data 1	12-Feb-18	10:00 - 11:30	Shot Category Detection based on Object Detection Using Convolutional Neural Networks	Deokkyu Jung*, Jeong-Woo Son*, Sun-Joong Kim*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180088	3B-02	AI, Deep Learning, Big Data 3	12-Feb-18	14:30 - 16:00	Statistical Traffic Generation Methods for Urban Traffic Simulation	Hyewon Song*, Okgee Min*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180091	7C-01	Software Platform & Smart Service 2	13-Feb-18	17:00 - 18:30	Augmented Reality Services of Photos and Videos from Filming Sites Using Their Shooting Locations and Attitudes	Yoon-Seop Chang*, Seong-Ho Lee*, Joonmyun Cho*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180094	6C-03	Software Platform & Smart Service 1	13-Feb-18	15:00 - 16:30	Video Scene Title Generation based on Explicit and Implicit Relations among Caption Words	Jeong-Woo Son, Wonjoo Park, Sang-Yun Lee, Sun-Joong Kim	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180097	1D-01	Distributed & Cloud Computing 1	12-Feb-18	10:00 - 11:30	A Productivity Improvement of Distributed Software Testing using Checkpoint	Bhuridech Sudsee, Chanwit Kaewkasi	Suranaree University of Technology, Thailand	OK
20180106	3A-04	Wireless Communication 3	12-Feb-18	14:30 - 16:00	Customized embedded system design for lower limb rehabilitation patients	Chae-eun Lee, Inn-chaе Yeo*, Inshil Doh	Ewha Womans University, Korea	Author Profile Missing in the Final Full Paper
20180109	3D-01	Drone, ITS, LBS & Network Robotics	12-Feb-18	14:30 - 16:00	Joint Optimal Channel Allocation, Interface Assignment and Routing in Multi-hop Wireless Networks	Jie Wu, Hongchun Li, Yi Xu and Jun Tian	Fujitsu Research and Development Center Co., Ltd, China	OK
20180115	7C-02	Software Platform & Smart Service 2	13-Feb-18	17:00 - 18:30	Clip Recommendation based on Topic Similarity	Wonjoo PARK*, Jeong-Woo Son*, Sang-Yun Lee*, Sun-Joong Kim*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180118	6B-01	System & Software Engineering	13-Feb-18	15:00 - 16:30	Theme-Related Keyword Extraction from Free Text Descriptions of Image Contents for Tagging	Joonmyun Cho*, Yoon-Seop Chang*, Sung-Ho Lee*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180121	7C-03	Software Platform & Smart Service 2	13-Feb-18	17:00 - 18:30	Scene-based Metadata Generation and Open API Provisioning Method for Smart Broadcast Service	Seung-Hee Kim, Deokkyu Jung, Sang-Yun Lee, Sun-Joong Kim	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180127	5A-02	Mobile Communication 1	13-Feb-18	13:00 - 14:30	A Physical Layer Security-based Routing Protocol in Mobile Ad-hoc Wireless Networks	Kyusung Shim, Tri Nhu Do, and Beongku An	Hongik University, Korea	OK
20180130	3A-05	Wireless Communication 3	12-Feb-18	14:30 - 16:00	Channel Measurements and Characterizations for Automobile Factory Environments	Liu Liu*, Ke Zhang*, Cheng Tao*, Kun Zhang*, Ze Yuan*, Jianhua Zhang**	*Beijing Jiatong University, **Beijing University of Posts and Telecommunications, China	OK
20180136	4A-01	Wireless Communication 4	13-Feb-18	10:00 - 11:30	End to End Performance Analysis of Relay Cooperative Communication Based on Parked Cars	Yingying SUN*, Lijun WANG†‡, Zhiquan BAI§, Kyung Sup KWAK¶, Xuming YAO* and Tao HAN*	*Huazhong University of Science and Technology, †Wuhan University, China, ‡Wenhua College, §Shandong University, China, ¶Inha university, Korea	OK
20180139	6C-04	Software Platform & Smart Service 1	13-Feb-18	15:00 - 16:30	Force-directed Voronoi-based Method for Graph Drawing in Constrained Boundaries	Fernando Wong, Horacio Sanson	Allm Inc., Japan	OK
20180142	7B-01	e-Services 1	13-Feb-18	17:00 - 18:30	A Pipelined Division for Fixed Operation Using User-defined Floating Point	Pengfei Yang*, Daolu Zha*, Xi Jin*	University of Science and Technology of China, China	OK
20180151	2B-02	AI, Deep Learning, Big Data 2	12-Feb-18	12:30 - 14:00	SvgAI – Training Artificial Intelligent Agent to use SVG Editor	Anh H. Dang*, Wataru Kameyama**	*GITS, Waseda University, **Waseda University, Japan	OK
20180154	6C-05	Software Platform & Smart Service 1	13-Feb-18	15:00 - 16:30	Proposal of Value-added Service based on Real-time Automatic Content Recognition	Donghwan SHIN*, Jonguk. CHOI*	*MarkAny Inc., Korea	OK

20180157	3A-01	Wireless Communication 3	12-Feb-18	14:30 - 16:00	User-Side Evil Twin Attack Detection Using Time-Delay Statistics of TCP Connection Termination	En-Chun KUO, Ming-Sang CHANG, Da-Yu KAO*	Central Police University, Taiwan	OK
20180163	5C-01	Information & Network Security 4	13-Feb-18	13:00 - 14:30	Secure Medical Image-Sharing Mechanism based on Visual Cryptography in EHR system	Dana Yang, Inshil Doh, Kijoon Chae	Ewha Womans University, Korea	OK
20180166	5B-02	AI, Deep Learning, Big Data 5	13-Feb-18	13:00 - 14:30	Story Creation And Design Algorithm In Unity	Woo-Hyun Park, Ki-Nam Park	Sungkyunkwan University, Korea	OK
20180169	3B-01	AI, Deep Learning, Big Data 3	12-Feb-18	14:30 - 16:00	Associating Risks of Getting Strokes with Data from Health Checkup Records using Dempster-Shafer Theory	Sergio Penafiel*, Nelson Baloian*, Jose A. Pino*, Jorge Quinteros*, Alvaro Riquelme*, Horacio Sanson**, Douglas Teoh**	*Universidad de Chile, Santiago, Chile, **Allm Inc., Japan	OK
20180172	4B-01	AI, Deep Learning, Big Data 4	13-Feb-18	10:00 - 11:30	Diagnostic Test Suggestion for Emergency Room via Bayesian Network of Non Expert-assisted Knowledge Base	Jorge Quinteros*, Nelson Baloian*, Jose A. Pino*, Alvaro Riquelme*, Sergio Penafiel*, Horacio Sanson**, Douglas Teoh**	*Universidad de Chile, Santiago, Chile, **Allm Inc., Japan	OK
20180175	4B-02	AI, Deep Learning, Big Data 4	13-Feb-18	10:00 - 11:30	Rank Selection of CP-decomposed Convolutional Layers with Variational Bayesian Matrix Factorization	Marcella Astrid*, Seung-Ik Lee*, **	*University of Science and Technology, **ETRI(Electronics and Telecommunications Research Institute), Korea	OK
20180178	2B-05	AI, Deep Learning, Big Data 2	12-Feb-18	12:30 - 14:00	Grading Image Retrieval based on CNN Deep Features	Y.W LUO*, Y LI*, F.J HAN*, S.B HUANG*	NUDT(National University of Defense Technology), China	OK
20180181	4D-01	Web Service & Future Web 1	13-Feb-18	10:00 - 11:30	Trust Management for SOA based Social WoT System	Sabeen Javaid*, Hammad Afzal*, Fahim Arif*, Naima Iltaf*	National University of Sciences and Technology, Pakistan	OK
20180187	2A-01	Wireless Communication 2	12-Feb-18	12:30 - 14:00	Design of a 2.4 GHz High-Performance Mixer with Current Bleeding Topology	Wah Ching LEE^, Kim Fung TSANG*	^The Hong Kong Polytechnic University, Hong, *City University of Hong Kong, Hong Kong	OK
20180193	1B-04	AI, Deep Learning, Big Data 1	12-Feb-18	10:00 - 11:30	Classifying Malware Using Convolutional Gated Neural Network	Chang Hoon Kim, Espoir K. Kabanga, Sin-Jae Kang	Daegu University, Gyeongsan, Korea	OK
20180199	1C-01	Authentication & Private Security	12-Feb-18	10:00 - 11:30	Color Image Watermarking Researches within Past Five Years	Amir Hesam YARIBAKHT*, M.S. ABDULLAH*, Alireza GHOBADI*	*Universiti Teknologi Malaysia (UTM), Malaysia	OK
20180208	6A-02	Mobile Communication 2	13-Feb-18	15:00 - 16:30	Study on Energy Consumption and Coverage of Hierarchical Cooperation of Small Cell Base Stations in Heterogeneous Networks	Xuming Yao†, Yingying Sun† and Tao Han†	†Huazhong University of Science and Technology, China	OK
20180211	4C-01	Information & Network Security 3	13-Feb-18	10:00 - 11:30	Forensic Analysis of Network Packets from Penetration Test Toolkits	Da-Yu KAO*, Yu-Siang WANG*, Fu-Ching TSAI*, Chien-Hung CHEN**	*Central Police University, **Information Management Office, New Taipei City Department, Taiwan	OK
20180214	1D-02	Distributed & Cloud Computing 1	12-Feb-18	10:00 - 11:30	Accelerating a Radio Astronomy Correlator on FPGA	Shuaizhi Guo*, Linlin Zheng*, Xi Jin*	*University of Science and Technology of China, China	OK
20180220	7D-01	IPTV & Internet Telephony	13-Feb-18	17:00 - 18:30	WhatsApp Network Forensics: Discovering the Communication Payloads behind Cybercriminals	Fu-Ching TSAI, En-Cih CHANG, Da-Yu KAO	Central Police University, Taiwan	OK
20180226	2D-01	Distributed & Cloud Computing 2	12-Feb-18	12:30 - 14:00	TSSA: A Two Step Scheduling Algorithm for the Event-driven Clusters	Yu Chen*, Mingming Sun*	*China Unionpay, China	OK
20180232	4D-02	Web Service & Future Web 1	13-Feb-18	10:00 - 11:30	Smart Traffic Management System Using Internet of Things	Sabeen Javaid*, Ali Sufian**, Saima Pervaiz**, Mehak Tanveer**	*National University of Sciences and Technology, **University of Gujrat, Sialkot Campus, Pakistan	OK

20180238	5A-03	Mobile Communication 1	13-Feb-18	13:00 - 14:30	Compressed QR code-based mobile voice guidance service for the visually disabled	Jung Hoon Kim*, Minseo Kim**, Taejun Yang**, Insu Kim**, Jun Seo**, Sunmoo Kang*	*Kyung Hee University, **Hansung Science High School, Korea	OK
20180241	7B-02	e-Services 1	13-Feb-18	17:00 - 18:30	A Nonlinear Decision Tree based Classification Approach to Predict the Parkinson's disease using Different Feature Sets of Voice Data	Satyabrata Aich*, Kim younga, Kueh Lee Hui**, Ahmed Abdulkhakim Al-Absi*** and Mangal Sain****	*Inje University, **Dong-A University, ***Kyungdong University-Global Campus, ****Dongseo University, Korea	OK
20180253	5C-02	Information & Network Security 4	13-Feb-18	13:00 - 14:30	Classification of Exploit-Kit Behaviors via Machine Learning Approach	Sukritta Harnmetta, Sudsangan Ngamsuriyaroj	Mahidol University, Thailand	OK
20180256	5D-02	Web Service & Future Web 2	13-Feb-18	13:00 - 14:30	Dynamic Equilibrium Capacity across Multiple Regions in NFV Environment	Hai Nguyen Dinh*, Sang-il Kim *, Hwa-Sung Kim*	Kwangwoon University, Korea	OK
20180259	7B-03	e-Services 1	13-Feb-18	17:00 - 18:30	Proposal for a universal access solution to care in rural areas: case of Senegal	Kéba GUEYE*, Ngartabé KAG-TEUBE*, Samuel OUYA*, Davy Edgard Moussavou*	*University of Dakar, Senegal	OK
20180262	5A-04	Mobile Communication 1	13-Feb-18	13:00 - 14:30	Performance Enhancement for Co-Channel Interference Cancellation with Smart Antenna and Power Adaptive in Cooperative Communication	Wuttipan Duangsri**, Mongkol Somrobru*, Nikorn Sutthisangiam**	*TOT Public Company Limited Bangkok, King Mongkut's University of Technology North Bangkok, Thailand	OK
20180265	5D-03	Web Service & Future Web 2	13-Feb-18	13:00 - 14:30	LDA Based Classification of Video Surveillance Sequences Using Motion Information	Abdou Khadre DIOP*, Serban MEZA**, Mihaela GORDAN**, Aurel VLAICU**	*Alioune DIOP University Bambey, Senegal, **Research Center for Information Multimedia and Telecommunications Technical University Cluj Napoca, Romania	OK
20180268	8B-01	e-Services 2	14-Feb-18	10:00 - 11:30	A Process-Aware IoT Application Execution Environment Design	Minjae Park*, Hyunah Kim**, Hyun Ahn**, Kwanghoon Pio Kim**	*Daelim University, **Kyonggi University, Korea	OK
20180271	8B-02	e-Services 2	14-Feb-18	10:00 - 11:30	An IoT Aware Workflow Model Designer for Smart Alarm Service About Companion Animal Health Check	Minjae Park*, Hyunah Kim**, Hyun Ahn**, Kwanghoon Pio Kim**	*Daelim University, **Kyonggi University, Korea	OK
20180274	6A-03	Mobile Communication 2	13-Feb-18	15:00 - 16:30	Global Ranking of Heterogeneous Mobile Network Coverage	Mbemba HYDARA*, Ahmed Dooguy KORA**, Antoine GNANSOUNOU**	*University of Gaston Berger, **Ecole Supérieure Multinationale des Télécommunications (ITU Centre of Excellence), Sénégal	OK
20180281	7D-02	IPTV & Internet Telephony	13-Feb-18	17:00 - 18:30	Proposed solution for improving the reliability of HSS data by integrating a queue manager	Ngartabé KAG-TEUBE*, Yvan Paillard KALIA-SYA DODOAGNEN*, Samuel OUYA*, Kéba GUEYE*	*University Cheikh Anta Diop, Dakar Senegal	OK
20180284	7A-02	Optical Network	13-Feb-18	17:00 - 18:30	Demonstration of Digital Optical D Flip Flop based on Photonic Micro-ring Resonator	Law Foo Kui and M. Rakib Uddin	Universiti Teknologi Brunei (UTB), Brunei Darussalam.	OK
20180287	7A-03	Optical Network	13-Feb-18	17:00 - 18:30	Data alignment for multi-channel high-speed interfaces using PRBS patterns	Seung-Woo LEE*, In-Ki HWANG*, Hun-Sik KANG*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180290	4A-02	Wireless Communication 4	13-Feb-18	10:00 - 11:30	Cosine Similarity based Bit to Symbol-and-antenna Mapping in Spatial Modulation System	Na Zhang*, Zhiqian Bai*, Qi Zhang*, Anyang Liu**, Shangqian Sun***, and Kyungsup Kwak****	*Shandong University, **Xidian University, Xi'an, ***Shandong University, China, ****INHA University, Korea	OK
20180296	4D-03	Web Service & Future Web 1	13-Feb-18	10:00 - 11:30	IoT-Based Medical Control System	James K. Tamgno*, Ndeye Rokhaya Diallo*, Claude Lishou**	*RSI Research Group, ESMT, **LTI Laboratory, UCAD, Senegal	OK
20180299	7D-03	IPTV & Internet Telephony	13-Feb-18	17:00 - 18:30	QoS Impact on Multimedia Traffic Load (IPTV, RoIP, VoIP) in Best Effort Mode	Mamadou Alpha Barry*, James K. Tamgno*, Claude Lishou**, Modou Bamba Cissé*	*RSI Research Group, ESMT, **LTI Laboratory, UCAD, Senegal	OK
20180305	8A-02	Network Management & Operation	14-Feb-18	10:00 - 11:30	Optimization of HPSA+ Capacity of Mobile Networks	James K. Tamgno*, Imane S.O-T.A. Alidou*, Claude Lishou**	*RSI Research Group, ESMT, **LTI Laboratory, UCAD, Senegal	OK

20180311	2D-02	Distributed & Cloud Computing 2	12-Feb-18	12:30 - 14:00	Hybrid Cloud Computing for User Location-aware Augmented Reality Construction	Ming-Shen Jian, Yi-Chang Wang, Bo-Han Wu, Yu-En Cheng	National Formosa University, Taiwan	OK
20180314	2D-03	Distributed & Cloud Computing 2	12-Feb-18	12:30 - 14:00	Outage Performance Analysis of IHDAF Cooperative based FSO Communication System	Jianghao Li*, Zhiqian Bai*, Haixia Zhang*, Yingchao Yang*, Shangqian Sun*, Tao Han** and Kyungsup Kwak***	*Shandong University, **Huazhong University of Science and Technology, China, ***INHA University, Korea	OK
20180317	2D-04	Distributed & Cloud Computing 2	12-Feb-18	12:30 - 14:00	Cloud Based Agriculture Safety Inspection with Multiple Standard Sources	Ming-Shen Jian, Hao-Yi Xu, Jenn-Feng Sheen, Yi-Ling Ye	National Formosa University, Taiwan	OK
20180320	2B-01	AI, Deep Learning, Big Data 2	12-Feb-18	12:30 - 14:00	General labelled data generator framework for network machine learning	Kwihoon Kim*, Yong-Geun Hong*, Youn-Hee Han**	*ETRI (Electronics and Telecommunications Research Institute), **KOREATECH, Korea	OK
20180326	6A-01	Mobile Communication 2	13-Feb-18	15:00 - 16:30	Multi-level edge computing framework for 5G cellular system with D2D enabled communication	Abdelhamied A. Ateya*, Ammar Muthanna**, Andrey Koucheryavy**	*Zagazig University, Zagazig, Egypt, **State University of Telecommunication, Russia	OK
20180329	6C-06	Software Platform & Smart Service 1	13-Feb-18	15:00 - 16:30	Using Standardization for Fair Data Evaluation	Kyongho Cho*, Taeseon Yoon**, Sunghee Park*, and Dohyeon Park***	*Gachon University, ** Korea University, ***Hankuk Academy of Foreign Studies, Korea	OK
20180332	4B-03	AI, Deep Learning, Big Data 4	13-Feb-18	10:00 - 11:30	A Case Study on Scene Recognition Using an Ensemble Convolution Neural Network	Bongjin Oh*, Junhyeok Lee**	*ETRI (Electronics and Telecommunications Research Institute), **Department of Research KPST, Korea	OK
20180335	3C-01	Information & Network Security 2	12-Feb-18	14:30 - 16:00	Combine Method of Forecasting VANET Cybersecurity for Application of High Priority Way	Mikhail Buinevich, Konstantin Izrailov, Ekaterina Stolyarova, Andrei Vladyko	The Bonch-Bruевич Saint-Petersburg State University of Telecommunications, Russian Federation	OK
20180357	3C-02	Information & Network Security 2	12-Feb-18	14:30 - 16:00	The Real-time Session Inspection Method using Heartbeat Signal	Jong Beom Kim*, Hyeon Yang*, Kyeong Ho Park**, Si Young Lee**, Seong Gon Choi*	*Chungbuk National University, **Xabyss Inc., Korea	OK
20180360	1D-03	Distributed & Cloud Computing 1	12-Feb-18	10:00 - 11:30	Load Distribution Method using Multicore Based NIC for High-Performance Computing System	Jae Woo Ahn*, Jong Beom Kim*, Won Seok Choi**, Jong Oh Kim**, Seong Gon Choi*	*Chungbuk National University, **Xabyss Inc., Korea	OK
20180363	4C-02	Information & Network Security 3	13-Feb-18	10:00 - 11:30	The Flow-Reduced Malware Detection System by Controlling Inactive/Active Timeout	Jae Kyu Lee*, Hyeon Yang*, Kyeong Ho Park**, Si Young Lee**, Seong Gon Choi*	*Chungbuk National University, **Xabyss Inc., Korea	OK
20180366	5C-04	Information & Network Security 4	13-Feb-18	13:00 - 14:30	Proposing Secure and Lightweight Authentication Scheme for IoT Based E-Health Applications	Maria Almulhim*, Noor Zaman*	*King Faisal University, Saudi Arabia	Author Profile Missing in the Final Full Paper
20180369	2C-01	Information & Network Security 1	12-Feb-18	12:30 - 14:00	The Static Analysis of WannaCry Ransomware	Shou-Ching HSIAO*, Da-Yu KAO**	*Haishan Precinct, New Taipei City Police Department, **Central Police University, Taiwan	OK
20180381	1C-02	Authentication & Private Security	12-Feb-18	10:00 - 11:30	Multiple Main User Recognition	Hye-Jin S. Kim, Il-Kwon Jeong	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180393	5A-01	Mobile Communication 1	13-Feb-18	13:00 - 14:30	Channel Modeling and Analysis of ULA Massive MIMO Systems	Xudong Cheng and Yejun He	Shenzhen University, China	OK
20180399	8C-01	Ubiquitous & Sensor Network	14-Feb-18	10:00 - 11:30	Implement Smart Farm with IoT Technology	Chiyul Yoon*, Miyoung Huh**, Shin-Gak Kang**, Juyoung Park**, Changkyu Lee**	*University of Science Technology, **ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180402	7B-04	e-Services 1	13-Feb-18	17:00 - 18:30	Factors Affecting the Successful Implementation of Hospital Information System: A Preliminary Pilot Study of Iranian Nurses	Shahab REZAIAN*, Harhodin BIN SALAMAT*, Reza MALEKZADEH**, Rasimah CHEMOHD YUSOFF*, Najaf ZARE***	*Universiti Teknologi Malaysia, Malaysia, **Tehran University of Medical Sciences, ***Shiraz University of Medical Sciences, Iran	OK

20180405	1C-03	Authentication & Private Security	12-Feb-18	10:00 - 11:30	Selective Fuzzy Ensemble Learner for Cognitive Detection of Bio-identifiable Modality Spoofing in MCPS	Nishat I Mowla*, Inshil Doh**, Kijoon Chae*	*Ewha Womans University, Korea	OK
20180411	2C-02	Information & Network Security 1	12-Feb-18	12:30 - 14:00	The Dynamic Analysis of WannaCry Ransomware	Da-Yu KAO*, Shou-Ching HSIAO**	*Central Police University, **Haishan Precinct, New Taipei City Police Department, Taiwan	OK
20180414	8B-03	e-Services 2	14-Feb-18	10:00 - 11:30	Impact of MSRP protocol integration in e-learning platforms of universities	Khalifa SYLLA*, Massamba SECK**, Samuel OUYA**, Gervais MENDY**	*Virtual University of Senegal (UVS), **University Cheikh Anta DIOP (U.C.A.D.), Senegal	OK
20180417	8B-04	e-Services 2	14-Feb-18	10:00 - 11:30	Proposal for an online practical work platform for improving the teaching of STEM	Kokou GAGLO*, Massamba SECK**, Samuel OUYA*, Gervais Mendy*	*Ecole Supérieure Polytechnique Université Cheikh Anta DIOP (U.C.A.D.), **Département des Technologies de l'Information et de la Communication Université Alioune Diop de Bambey (UADB), Sénégal	OK
20180420	6A-04	Mobile Communication 2	13-Feb-18	15:00 - 16:30	Analysis of Path Loss about Radio Duct Phenomenon with Atmospheric Refractive Index Information	Jinhyung Oh, Jong Ho Kim and Young-Jun Chong	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180423	7D-04	IPTV & Internet Telephony	13-Feb-18	17:00 - 18:30	Buffermap adaptation method for MP2P multimedia streaming protocol	Wook Hyun*, ChangKyu Lee*, ShinGak Kang*, Juyoung Park*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180426	7D-05	IPTV & Internet Telephony	13-Feb-18	17:00 - 18:30	Method of Managed Content Distribution for Time-Constrained Distribution	Changkyu Lee, Wook Hyun, Shin-Gak Kang	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180429	6D-02	Web Service & Future Web 3	13-Feb-18	15:00 - 16:30	The Architecture of Multi Media Multi Path System	Byung Yun Lee*, Hea Sook Park*	*ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180435	2C-03	Information & Network Security 1	12-Feb-18	12:30 - 14:00	Protecting End-Device from Replay Attack on LoRaWAN	Woo-Jin Sung*, Hyeong-Geun Ahn*, Jong-Beom Kim*, Seong-Gon Choi*	*ChungBuk National University, Korea	OK
20180438	4A-03	Wireless Communication 4	13-Feb-18	10:00 - 11:30	Performance Enhancement for Harvest-to-Transmit Cognitive Multi-hop Networks with Best Path Selection Method under Presence of Eavesdropper	Tran Dinh Hieu*, Tran Trung Duy† and Seong Gon Choi*	*Chungbuk National University, †Posts and Telecommunications Institute of Technology (PTIT), Vietnam	OK
20180441	1D-04	Distributed & Cloud Computing 1	12-Feb-18	10:00 - 11:30	Design of Multicore-based High Performance Load Distribution System	Joon Yeol Yoon*, Won Seok Choi**, Jong Oh Kim**, Jae Woo Ahn*, Jong Beom Kim*, Seong Gon Choi*	*ChungBuk National University, **Fisys Inc., Korea	OK
20180444	1C-04	Authentication & Private Security	12-Feb-18	10:00 - 11:30	A Systematic Review of Features Identification and Extraction for Behavioural Biometric Authentication in Touchscreen Mobile Devices	Sami Abduljalil Abdulhak*, Ala Abdulhakim Alariki*	American university of Afghanistan,	OK
20180447	7B-05	e-Services 1	13-Feb-18	17:00 - 18:30	Sensing system and sensing method of passive patch interface for gathering bioinformation	Tae-Gyu LEE*	*Wonkwang University, Korea	OK
20180450	1B-01	AI, Deep Learning, Big Data 1	12-Feb-18	10:00 - 11:30	Global Optimization of Neural Network	Chae Young Lee and Yeon Jun Lim*, Taeseon Yoon**	*Hankuk Academy of Foreign Studies, **Korea University, Korea	OK
20180456	6A-05	Mobile Communication 2	13-Feb-18	15:00 - 16:30	Advanced LTE Network Deployment Methodology: A case Study for Dakar Region	Antoine Gnansounou*, Samuel Ouya*, Raïmy Abd. Toure*	*ESMT-DETIK-LTI, ESMT, Senegal	OK
20180459	2C-04	Information & Network Security 1	12-Feb-18	12:30 - 14:00	IoT Security Vulnerability: A Case Study of a Web Camera	Yogeesh Seralathan*, Tae (Tom) Oh*, Suyash Jadhav*, Jonathan Myers*, Jaehoon (Paul) Jeong+, Young Ho Kim^, and Jeong Neyo Kim^	*Rochester Institute of Technology, USA, +DSungkyunkwan University, Korea, ^Electronics and Telecommunications Research Institute, Korea	OK
20180465	2B-03	AI, Deep Learning, Big Data 2	12-Feb-18	12:30 - 14:00	A Classification Approach with Different Feature Sets to Predict the Quality of Different Types of Wine using Machine Learning Techniques	Satyabrata Aich*, Ahmed Abdulhakim Al-Absi**, Kueh Lee Hui***, John Tark Lee*** and Mangal Sain****	*Inje University, **Kyungdong University- Global Campus, ***Dong-A University, ****Dongseo University, Korea	OK

20180479	3B-03	AI, Deep Learning, Big Data 3	12-Feb-18	14:30 - 16:00	ECPS: An Application-Specific VM Scheduler Basing on CPU Pool Mechanism for Big Data Environment	Xiaodong Liu*, Jian Li*	SJTU (Shanghai Jiao Tong University), China	OK
20180482	3C-03	Information & Network Security 2	12-Feb-18	14:30 - 16:00	QAT: Evaluation of a Dedicated Hardware Accelerator for High Performance Web Service	Xue Shuai*, Liu Yao*, Zhang Wang*	*Shanghai Jiao Tong University, China	OK
20180488	1C-05	Authentication & Private Security	12-Feb-18	10:00 - 11:30	Accelerate the Paillier Cryptosystem in CryptDB by Chinese Remainder Theorem	Yao Liu*, Shuai Xue*	*Shanghai Jiao Tong University, China	OK
20180491	5D-04	Web Service & Future Web 2	13-Feb-18	13:00 - 14:30	HPSRouter: A High Performance Software Router Based on DPDK	Zongyao Li*	*Shanghai Jiao Tong University, China	OK
20180494	2D-05	Distributed & Cloud Computing 2	12-Feb-18	12:30 - 14:00	Efficient Partitioner For Distributed OLTP DBMS	Wenkang Chen*	*Shanghai Jiao Tong University, China	OK
20180500	6B-05	System & Software Engineering	13-Feb-18	15:00 - 16:30	Implementation and Performance Evaluation of 256-QAM in Vienna System Level Simulator	Igor Kim, Jungsun Um, Seungkeun Park	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180503	3D-02	Drone, ITS, LBS & Network Robotics	12-Feb-18	14:30 - 16:00	Energy Efficient IoT based on Wireless Sensor Networks for Healthcare	Youngbok Cho*, Minkang Kim**, Sunghee Woo***	*University of Chungbuk, **SONOUM Inc, ***Korea National University of Transportation, Korea	OK
20180509	4B-04	AI, Deep Learning, Big Data 4	13-Feb-18	10:00 - 11:30	3D Convolutional Neural Networks for Soccer Object Motion Recognition	Jiwon Lee*, Yoonhyung Kim**, Minki Jeong**, Changick Kim**, Do-Won Nam*, JungSoo Lee*, Sungwon Moon*, and WonYoung Yoo*	*ETRI(Electronics and Telecommunications Research Institute), **KAIST(Korea Advanced Institute of Science and Technology), Korea	OK
20180512	4C-03	Information & Network Security 3	13-Feb-18	10:00 - 11:30	Development Trend of Insider Anomaly Detection System	MinKyu Kim *, KiHwan Kim *, HoonJae Lee**	*Dongseo University, Busan, **Div. Of Information and Communication Engineering, KOREA	OK
20180515	3D-03	Drone, ITS, LBS & Network Robotics	12-Feb-18	14:30 - 16:00	Driving Information Logger with In-VehicleCommunication for Autonomous Vehicle Research	Kyungbok Sung, Kyoungwook Min, and Jeongdan Choi	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180521	6D-03	Web Service & Future Web 3	13-Feb-18	15:00 - 16:30	An SDN Framework for Video Conference in Inter-Domain Network	Teerawut Banchuen, Kiattikun Kawila, Kultida Rojviboonchai*	Chulalongkorn University, Thailand	OK
20180524	3D-04	Drone, ITS, LBS & Network Robotics	12-Feb-18	14:30 - 16:00	Opportunistic Computational Offloading System for Clusters of Drones	Rico Valentino*, Woo-Sung Jung**, Young-Bae Ko*	*Ajou University, **ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180527	7C-04	Software Platform & Smart Service 2	13-Feb-18	17:00 - 18:30	Shareable Camera Framework for Multiple Computer Vision Applications	Hayun Lee, Gyeonghwan Hong, Dongkun Shin	Sungkyunkwan University, Korea	OK
20180530	1A-01	Wireless Communication 1	12-Feb-18	10:00 - 11:30	PAPR Reduction in FBMC-OQAM Signals with Half Complexity of Trellis-based SLM	Panya Jirajaracheep*, Sunisa Sanpan**, Pornpawit Boonsrimuang***, Pisit Boonsrimuang*	*King Mongkut's Institute of Technology Ladkrabang, **Metropolitan Waterworks Authority, ***Suan Sunandha Rajabhat University, Thailand	OK
20180533	6D-04	Web Service & Future Web 3	13-Feb-18	15:00 - 16:30	ICT Enabling Technologies for Smart Cities	Dzung Van DINH*, Byeong-Nam YOON**, Hung Ngoc LE***, Uy Quoc NGUYEN****, Khoa Dang PHAN*, Lam Dinh PHAM*	*Vietnam National University, Vietnam, **Global IT Research Institute, Korea, ***Viet Nam Korea Exchange Joint Venture Company, Vietnam, ****Posts and Telecommunications Institute of Technology, Vietnam	OK
20180536	5B-03	AI, Deep Learning, Big Data 5	13-Feb-18	13:00 - 14:30	Applying Business Intelligence Technology for Equipment Maintenance and Repair Plan of Telecommunications Services Provider	Sasiwimon Tanphet*, Paweena Wanchai*	*Khon Kaen University, Thailand	OK
20180542	4B-05	AI, Deep Learning, Big Data 4	13-Feb-18	10:00 - 11:30	Self-Learning Mechanism for Prediction of Energy Consumption and Generation	Tai-Yeon Ku*, Wan-Ki Park*, Hoon Choi**	*ETRI (Electronics and Telecommunications Research Institute), **Chungnam National University, Korea	OK

20180548	4C-04	Information & Network Security 3	13-Feb-18	10:00 - 11:30	A Study on Detection of Anomaly Behavior in Automation Industry	SuMi Ryu*, Young-Jin Kang*, HoonJae Lee**	*Dongseo University, **Div. Of Information and Communication Engineering, KOREA	OK
20180554	7A-04	Optical Network	13-Feb-18	17:00 - 18:30	Analysis of Coupling Coefficient and Crosstalk in a Homogenous Multicore Optical Fiber	Azruph Islam Badhon,Homira Asima Prapty, Khairul Bin Amin* and Md. Afzal Hossain	Department of EECE, MIST, Dhaka, Bangladesh	OK
20180557	8C-02	Ubiquitous & Sensor Network	14-Feb-18	10:00 - 11:30	Wireless Identifying System Based on Nano-tags	M. Blinnikov*, R. Pirmagomedov*	*St. Petersburg State University of Telecommunication, Russian Federation	OK
20180560	2C-05	Information & Network Security 1	12-Feb-18	12:30 - 14:00	A Deep Auto-Encoder based Approach for Intrusion Detection System	Fahimeh Farahnakian, Jukka Heikkonen	University of Turku, Turku, Finland	Author Profile Missing in the Final Full Paper
20180566	1A-02	Wireless Communication 1	12-Feb-18	10:00 - 11:30	Achieving Fair Cell-Edge Performance: Low-Complexity Interference Coordination in OFDMA Networks	Sunghyun Kim, Hyekyung Jwa, Jung-Mo Moon, Jee-Hyeon Na	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180572	1A-03	Wireless Communication 1	12-Feb-18	10:00 - 11:30	Size-Miniaturized Half-Mode Substrate Integrated Waveguide Bandpass Filter Incorporating E-Shaped Defected Ground Structure for Wideband Communication and Radar Applications	Chencong Wang*, Zijun Wang*, Yong Mao Huang*	*University of Electronic Science and Technology of China, China	OK
20180578	2A-04	Wireless Communication 2	12-Feb-18	12:30 - 14:00	Improving Network Lifetime in Wireless Sensor Network Using Fuzzy Logic Based Clustering Combined With Mobile Sink	Phan Thi The*, Vu Nhu Manh**, Tran Cong Hung**, Le Dien Tam*	*Thu Duc College, **Posts & Telecommunications Institute of Technology, VietNam	OK
20180581	8C-03	Ubiquitous & Sensor Network	14-Feb-18	10:00 - 11:30	A Cooperative Trilateration Technique for Object Localization	Malathi Balaji, Shafique Ahmad Chaudhry	Dhofar University, Oman	OK
20180594	5B-04	AI, Deep Learning, Big Data 5	13-Feb-18	13:00 - 14:30	Making Learning Fun: Educational Concepts & Logics through Game	*Abdulaziz ALSUBAIE, *Mohammed ALAITHAN, *Muath BOUBAID, *Noor ZAMAN	*King Faisal University, Saudi Arabia	OK
20180597	1A-04	Wireless Communication 1	12-Feb-18	10:00 - 11:30	Obstacles Effects on Signal Attenuation in Line of Sight for Different Environments in V2V Communication	Mohammed Abdulhakim Al-Absi*, Ahmed Abdulhakim Al-Absi**, Young-Jin Kang*, Hoon Jae Lee*	*Dongseo University, **Department of Smart Computing, Global Campus (Gosung), Korea	OK
20180600	2A-05	Wireless Communication 2	12-Feb-18	12:30 - 14:00	An algorithm to Calculate Phase and Amplitude of tag on RFID protocol conformance test system	Na Wang, Ying Xu, Yajun Zhang, Meng Liu, Daxue Shen, Hongjun Wang	Shandong University, China	OK
20180603	5B-05	AI, Deep Learning, Big Data 5	13-Feb-18	13:00 - 14:30	A Comparative Study on Preprocessing Methods for Object Tracking in Sports Events	Sungwon MOON*, Jiwon LEE*, Dowon NAM*, Wonyoung YOO*, Wonjun KIM**	*ETRI(Electronics and Telecommunications Research Institute), **KONKUK University, Korea	OK
20180609	7C-05	Software Platform & Smart Service 2	13-Feb-18	17:00 - 18:30	Basketball Event Recognition Technique using Deterministic Finite Automata (DFA)	JungSoo Lee*, Jiwon Lee*, Sungwon Moon*, DoWon Nam* and Wonyoung Yoo*	*ETRI(Electronics and Telecommunications Research Institute), **KAIST(Korea Advanced Institute of Science and Technology), Korea	OK
20180615	3A-02	Wireless Communication 3	12-Feb-18	14:30 - 16:00	Android Based Advanced Attendance Vigilance System Using Wireless Network with Fusion of Bio-metric Fingerprint Authentication	Hamim Adal, Nawsheen Promy, Sanjana Srabanti, Mahbubur Rahman	Military Institute of Science and Technology, Bangladesh	OK
20180618	2B-04	AI, Deep Learning, Big Data 2	12-Feb-18	12:30 - 14:00	Bitcoin Price Prediction using Machine Learning	Siddhi Velankar*, Sakshi Valecha*, Shreya Maji*	*Pune Institute of Computer Technology, India	OK
20180621	6B-02	System & Software Engineering	13-Feb-18	15:00 - 16:30	Automated Vehicle Parking System And Unauthorized Parking Detector	Ishraq Haider Chowdhury**, Afsana Abida**, Md. Mehedi Hasan Muaz**,	*Military Institute of Science and Technology, **Department of Computer Science and Engineering, Bangladesh	OK
20180633	4C-05	Information & Network Security 3	13-Feb-18	10:00 - 11:30	A PCA-based Method for IoT Network Traffic Anomaly Detection	Dang Hai Hoang*, Ha Duong Nguyen**	*Posts and Telecommunication Institute of Technology, **National University of Civil Engineering, Vietnam	OK

20180648	8A-03	Network Management & Operation	14-Feb-18	10:00 - 11:30	Study on Multi - Network Traffic Modeling in Distribution Communication Network Access Service	WeiDong Feng*, Yong Sun **, Zheng Zhou*, Qiang Rao*, Di Chen ***, Linhui Yang****, Yawei Wang***	*State Grid Hubei Electric Power Information Communication Company, **Beijing University of Posts and Telecommunications, ***State Grid Hubei Electric Power Maintenance Company, **** State Grid Qinghai Electric Power Information Communication Company, China	OK
20180661	6D-05	Web Service & Future Web 3	13-Feb-18	15:00 - 16:30	UL Coverage Enhancement for Massive Machine Type Communication in 5G	Dongyang Wang, Qingping Shi	Beijing Institute of Astronautical System Engineer, China	OK
20180662	6B-03	System & Software Engineering	13-Feb-18	15:00 - 16:30	The Gesture Recognition Technology based on IMU Sensor for Personal Active Spinning	Mi-Seon Kang *, Hyun-Woo Kang **, Cheolhyo Lee*, Kiyoun Moon	*ETRI (Electronics and Telecommunications Research Institute), **Korea Polytechnic Colleges VI, Korea	OK
20180663	3B-04	AI, Deep Learning, Big Data 3	12-Feb-18	14:30 - 16:00	EEG-Signals Based Cognitive Workload Detection of Vehicle Driver using Deep Learning	Mohammad A. Almgobel*, Anh H. Dang**, Wataru Kameyama*	*Waseda University, **GITS, Waseda University, Japan	OK
20180665	6B-04	System & Software Engineering	13-Feb-18	15:00 - 16:30	An assessment framework for smart manufacturing	Sangkeun YOO*, Yongwoon KIM*, Hoon CHOI**	*ETRI (Electronics and Telecommunications Research Institute), **Chungnam National University, Korea	OK
20180667	1B-05	AI, Deep Learning, Big Data 4	12-Feb-18	10:00 - 11:30	Detection of Rail Surface Defects Based on CNN Image Recognition and Classification	Lidan SHANG, Qiushi YANG, Jianing WANG, Shubin LI, Weimin LEI	Northeastern University(NEU), China	OK
20180670	4D-04	Web Service & Future Web 1	13-Feb-18	10:00 - 11:30	Recent Challenges, Trends, and Concerns Related to IoT Security: An Evolutionary Study	Chalee Vorakulpipat*, Ekkachan Rattanalerdnusorn*, Phithak Thaenkaew*, Hoang Dang Hai**	*National Electronics and Computer Technology Center, Thailand, **Post and Telecommunication Institute of Technology, Vietnam	OK
20180673	1A-05	Wireless Communication 1	12-Feb-18	10:00 - 11:30	Study on the Fabrication and Evaluation of the MEMS Based FBAR Filter for wireless systems	Eun Kyu Lee*, Chae Soo Kim*, Jae Joong Kim*, Hyung Rim Choi*	*Dong-A University Research Park, Korea	OK
20180676	4A-04	Wireless Communication 4	13-Feb-18	10:00 - 11:30	Practical Incremental Network Coding for Multimedia Content Delivery	Phuc CHAU, Toan Duc BUI, Yongwoo LEE, Jitae SHIN	Sungkyunkwan University, Suwon, Korea	OK
20180679	5C-03	Information & Network Security 4	13-Feb-18	13:00 - 14:30	Cyber Crime Trend in Bangladesh, an Analysis and Ways Out to Combat the Threat	Shusmoy Kundu, Khandaker Annatoma Islam, Tania Tahmina Jui, Suzzana Rafi, Md. Afzal Hossain, Ishraq Haider Chowdhury	Military Institute of Science and Technology, Bangladesh	OK
20180681	3D-05	Drone, ITS, LBS & Network Robotics	12-Feb-18	14:30 - 16:00	Driver-Adaptive Vehicle Interaction System for the Advanced Digital Cockpit	Jin-Kyu Choi, Kyongho Kim, Dohyun Kim, Hyunkyun Choi, Byungtae Jang	ETRI (Electronics and Telecommunications Research Institute), Korea	OK
20180682	8B-05	e-Services 2	14-Feb-18	10:00 - 11:30	Study of p-ICN defined performance measurement Enterprise Architecture	Byeongnam Yoon*, Kwanghoon Kim*, Pham Dinh Lam**, Pham Thanh Dat**, Vu Viet Vu**, Do Hong Quan**, Do Nang Toan**	*Kyonggi University, Korea, **Vietnam National University, Vietnam	OK
20180696	5A-05	Mobile Communication 1	13-Feb-18	13:00 - 14:30	Accurate Radio Coverage Assessment Methods: Investigation of Mobile Networks Based on Subscribers Mobile Phones	Yendoutie NAKORGOU*, Antoine GNANSOUNOU*, Ahmed Dooguy KORA*, Mbemba HYDARA**	*ESMT (Ecole Superieure Multinationale des Telecommunications), **University of Gaston Berger, Senegal	OK
20180700	4A-05	Wireless Communication 4	13-Feb-18	10:00 - 11:30	Protocols and Use Cases for Media Independent Management in SDN-based Wireless Access Networks	Hyeong Ho Lee*, Yun Chul Choi*, Byung Jun Ahn*, Jin Seek Choi**	*ETRI (Electronics and Telecommunications Research Institute), **Hanyang University, Korea	OK