Final Technical Program

2018 IEEE Seventh International Conference on Communications and Electronics (IEEE ICCE 2018)

SUBMISSION and ACCEPTACE at A GLANCE

-	Number of submitted papers	187
-	Number of full accepted papers	62
-	Number of poster papers	24
_	Acceptance rate of full papers	32.62%
-	Number of submitting countries	29

PROGRAM AT A GLANCE

Wednesday, 18 July, 2018				
08:45 _ 09:15	Opening Ceremony: - Welcome speeches of General Co-Chairs: Prof. Nguyen Xuan Quynh, Senior Expert of NCSTP, Chairman of the State Council for Professor Title on Electricity-Electronics and Automation, Vietnam Prof. Hoang Minh Son, Rector of Hanoi University of Science and Technology, Vietnam Prof. Chung-Gu Kang, Korea University, Korea. - Conference introduction: Prof. Phuoc Tran-Gia, Vice-president, University of Wuerzburg, Germany.			
Time: 09 Room: L	Keynote Session Time: 09:15 – 12:00 Room: Le Cinéma Session Chair: Serge Fdida (Sorbonne University, France)			
09:15 - 10:00	Keynote 1: "Progress in Quantum Dots: From Science to Engineering" by Yasuhiko Arakawa, Institute for Nano-Quantum Information Electronics, The University of Tokyo			
10:00 - 10: 45	Keynote 2: "Scalable Solutions for Telecommunications Network Design and Optimization" by Moshe Zukerman, City University of Hong Kong, China			
10:45 - 11:15	Coffee Break			
11:15 - 12:00	Keynote 3: "A Closed-loop Brain-Machin by Jan Van der Spiegel, Unive	ne Interface: The Next Frontier" rsity of Pennsylvania, USA		
12:00 _ 13:30	Lunch at Restaurant Jules Ferry			
	Room: Le Cinéma A	Room: Le Cinéma B	Room: Le Royal	
13:30 - 15:00	Control of the Contro	Tutorial 2: "Software Defined Networking, Network Function Virtualization and the Future Internet", by Doan B. Hoang, University of Technology Sydney (UTS), Australia	Tutorial 3: "Closed-form Design of Optimal FIR Filters" by Pavel Zahradnik, Czech Technical University in Prague, Czech.	
15:00		Coffee Break		

_ 15:30					
15:30 _ 17:00	Tutorial 1 (cont.)	Tutorial 2 (cont.)	Tutorial 2 (cont.) Tuto		rial 3 (cont.)
		Thursday, 19 July, 20	018		
Time	Room: Le Cinéma A	Room: Le Cinéma B	Room	: Le Royal	Room: Banquet
8:45 _ 10:05	IoT Workshop	Samsung's Special Session on LTE Evolution/5G Technologies and Services	ES-1: EI	ectronics 1	SPA- 1: Image processing
10:05 _ 10:35		Coffee Break & Poste	r Sessioı	1 1	
10:35 _ 11:55	IoT Workshop (cont.)	Samsung's Special Session on LTE Evolution/5G Technologies and Services (cont.)	ES-1: EI	ectronics 2	SPA-2: Signal processing
11:55 _ 13:30	Lunch at Restaurant Jules Ferry				
13:30 _ 15:10	CNS – 1: Network Applications	Samsung's Special Session on LTE Evolution/5G Technologies and Services (cont.)	ME– 1: I Enginee	Microwave ring	CNS – 2: Cognitive Radio
15:10 _ 15:40	Coffee Break & Poster Session 2				
15:40 _ 17:20	CNS-3: WSN and IoT	Samsung's Special Session on LTE Evolution/5G Technologies and Services (cont.)	ME- 2: /	Antennas	SPA-3: Information analysis
	GALA DINER				
Time: 18:30 – 21:00					

Time: 18:30 – 21:00

Venue: TBD

Friday, 20 July, 2018

Time	Room: Le Cinéma A	Room: Le Cinéma B	Room: Le Royal	Room: Banquet
8:45 _ 10:05	CNS –4: Software-Defined Networks/Network Function Virtualization	CNS – 5: MIMO Systems	CNS –6: Channel Modeling and Coding 1	SPA-4: Image privacy and protection

10:05 _ 10:35	Coffee Break			
10:35 _ 11:55	Special Session on Network Softwarization		CNS -7: Channel Modeling and Coding 2	
11:55 _ 13:30		Lunch at Restaurant Jules Ferry		

FINAL DETAILED TECHNICAL PROGRAM

NOTE:

- The speakers in oral sessions should prepare for 15 minutes presentation and 5 minutes discussion
- . The presenters in poster sessions should prepare a poster in size of A0 or A1
- The time for all social activities (coffee breaks, lunches, and Gala dinner) is shown PROGRAM AT A GLANCE

	Wednesday, 18 July, 2018			
		realiesday, 10 July, 2010		
08:45 - 09:15	Opening Ceremony: - Welcome speeches of General Co-Chairs: - Prof. Nguyen Xuan Quynh, Senior Expert of NCSTP, Chairman of the State Council for - Professor Title on Electricity-Electronics and Automation, Vietnam - Prof. Hoang Minh Son, Rector of Hanoi University of Science and Technology, Vietnam Prof. Chung-Gu Kang, Korea University, Korea Prof. Phuoc Tran-Gia, Vice-president, University of Wuerzburg, Germany.			
Time: 09 Room: I	e Session 9:15 – 12:00 Le Cinéma n Chair: Serge Fdida (Sorbo	nne University, France)		
09:15 - 10:00	Keynote 1: "Progress in Quantum Dots: From Science to Engineering" by Institute for Nano-Quantum Information Electronics, The University of Tokyo, Japan			
10:00 - 10:45	Keynote 2: "Scalable solutions for telecommunications network design and optimization" by Moshe Zukerman, City University of Hong Kong, China			
10:45 - 11:15	Coffee Break			
11:15 _ 12:00	Keynote 3: "A Closed-loop Brain-Machine Interface: The Next Frontier" by Jan Van der Spiegel, University of Pennsylvania, USA			
12:00 - 13:30		Lunch at Restaurant Jules Fer	ry	
		Tutorial Session Time: 13:30 – 17:00		
	Room: Le Cinéma A	Room: Le Cinéma B	Room: Le Royal	
13:30 _ 15:00	Tutorial 1: "Quantum Computing" by Joanna Ptasinski, Space and Naval Warfare Systems Center Pacific (SSC PAC), USA.	"Software Defined Networking, Network Function Virtualization and the future Internet", by Doan B.	Tutorial 3: "Closed-form Design of Optimal FIR Filters" by Pavel Zahradnik, Czech Technical University in Prague, Czech.	
15:00 - 15:30		Coffee Break		
15:30 - 17:00	Tutorial 1 (cont.)	Tutorial 2 (cont.)	Tutorial 3 (cont.)	

ORAL SESSIONS:

TRACK: COMMUNICATION NETWORKS AND SYSTEMS

	Thursday, 19 July, 2018
11:55	
_	Lunch at Restaurant Jules Ferry
13:30	
CNS_1: Network Applicat	ons

CNS-1: Network Applications

Time: : 13:30 - 15:00 Room: Le Cinéma A

Session chair: Nguyen Thanh Chuyen (Hanoi University of Science and Technology, Vietnam)

Time	Title	Presenter
13:30	Invited Talk: Mobility-assisted data transmission systems for offloading and extending conventional communication networks	Promethee Spathis (Sorbonne University)
14:00 14:00 - 14:20	Nested One-Class Support Vector Machines for Network Intrusion Detection	Huong Thu Truong(Hanoi University of Science and Technology, Vietnam)
14:20 - 14:40	On the Current State of Interoperable Content Protection for Internet Video Streaming	Stefan Pham (Fraunhofer FOKUS, Germany)
14:40 _ 15:00	Reliable Software-Defined Optical Camera Communication over Screen	Trang Nguyen (Kookmin University, Korea)

CNS-2: Cognitive Radio Time: 13:30 – 14:50 **Room: Banquet**

Session chair: Long Le (INRS, University of Quebec, Canada)

Time	Title	Presenter
13:30	Downlink Outage Analysis for Cognitive Cooperative Radio	Thi My Chinh Chu (Blekinge Institute of
13:50	Networks Employing Non-Orthogonal Multiple Access	Technology, Sweden)
13:50	Symbol Error Rate and Achievable Rate of Cognitive Cooperative	Hans-Juergen Zepernick (Blekinge
14:10	Radio Networks Utilizing Non-Orthogonal Multiple Access	Institute of Technology, Sweden)
14:10	Multiuser MISO Beamforming Design for Balancing the Received	Pham Viet Tuan (University of Ulsan,
14:30	Powers in Secure Cognitive Radio Networks	Korea)s
14:30	Multi-Objective Optimal Resource Allocation Using Particle	Sang-jo Yoo (Inha University, Korea)
14:50	Swarm Optimization in Cognitive Radio	Sang-jo 100 (iiiia Oniversity, Rorea)
15:10		

Coffee Break & Poster Session 2

CNS-3: WSN and IoT Time: 15:40- 17:20 Room: : Le Cinéma A

Session chair: Erdal Cayirci (University of Stavanger, Norway)

Time	Title	Presenter
15:40 _ 16:00	Water and Energy-Efficient Irrigation Based on Markov Decision Model for Precision Agriculture	Nguyen Thi Van (Hanoi University of Science and Technology, Vietnam)
16:00 - 16:20	An Empirical Study on Approaches of Internet of Things Reconfiguration	Dang Huynh-Van (University of Information Technology - VNUHCM, Vietnam)

16:20 - 16:40	Towards a Large-Scale IoT Emulation Testbed Based on Container Technology	Quan LE-TRUNG (University of Information Technology - VNUHCM, Vietnam)
16:40 - 17:00	A Novel Time- And Energy-Efficient Tag Identification Protocol in Dense RFID Systems	Linh Hoang (Hanoi University of Science and Technology, Vietnam)
17:00 - 17:20	Integrating Trickle Timing in Software Defined WSNs for Energy Efficiency	Nguyen Quang Hieu (Hanoi University of Science and Technology, Vietnam)

GALA DINER Time: 18:30 – 21:00 Venue: TBD

Friday, 20 July, 2018

CNS-4: Software-Defined Networks/Network Function Virtualization

Time: 8:45 – 10:25 Room: Le Cinéma A

Session chair: Promethee Spathis (Sorbonne University)

Time	Presenter	Presenter
8:45 - 9:05	Invited paper: Flexible Multi-step Resource Relocation for Virtual Network Functions	Nguyen Tuan Khai (Technische Universität Chemnitz, Germany)
9:05 - 9:25	Shortening the Response Time in Software-Defined Networking: A Sensitivity Analysis Approach	Amir hossein Moravejosharieh (Auckland Institute of Studies, New Zealand)
9:25 - 9:45	Evaluation of the Detection Capabilities of the ONOS SDN Controller	Florian Wamser (University of Wuerzburg, Germany)
9:45 - 10:05	Latency-aware Placement for State Management Functions in Service-based 5G Mobile Core Network	Truong-Xuan Do (Soongsil University, Korea)
10:05 _ 10:25	Optimization Model and Algorithm for Dynamic Service-Aware Traffic Steering in Network Functions Virtualization	Thi-Thuy-Lien Nguyen (Hanoi National University of Education, Vietnam)

CNS-5: MIMO Systems Time: 8:45 - 10:25 Room: : Le Cinéma B

Session chair: Thi My Chinh Chu (Blekinge Institute of Technology, Sweden)

Time	Title	Presenter
8:45 - 9:05	Transmit Power Imbalance Reduction Method and Nonlinear Companding Transform for Beamforming OFDM Systems	Chang-Jun Ahn (Chiba University, Japan)
9:05 - 9:25	On Optimal Input and Capacity of Non-Coherent Correlated MISO Channels Under Per-Antenna Power Constraints	Minh N Vu (University of Akron, USA)
9:25 - 9:45	Performance of Assigning Pilot Sequences in Cell Free Massive MIMO Under SINR Constraints	Nguyen Tien Hoa (Hanoi University of Science and Technology, Vietnam)
9:45 _ 10:05	Pilot Decontamination Using Time-shifted Pilot and Data-aided Channel Estimation for Massive MIMO	Dang-An Nguyen (Hanoi University of Science and Technology, Vietnam)
10:05 - 10:25	Outage Analysis for Downlink Single-cell Massive MIMO System Under Per-user Power Control	Anh-Tuan Nguyen (Hanoi University of Science and Technology, Vietnam)
CNS-	6: Channel Modeling and Coding 1	•

Time: : 8:45 - 9:55 Room: Le Royal

Session chair: Hans-Juergen Zepernick (Blekinge Institute of Technology, Sweden)

Time	Title	Presenter
8:45 - 9:15	Invited Talk: Modelling and Analysis of Non-Stationary Radio Channels with Applications in Human Activity Recognition	Matthias Pätzold (University of Agder, Norway)
9:15 - 9:35	Modelling of Non-WSSUS Channels with Time-Variant Doppler and Delay Characteristics	Matthias Pätzold (University of Agder, Norway)
9:35 - 9:55	Efficient Channel Column Sorting Method Based on Householder Transformation for QRM-MLD	Chang-Jun Ahn (Chiba University, Japan)
10:05	Coffee Break	

10:35 CNS-7: Channel Modeling and Coding 2

Time: : 10:35 - 11:35 Room: Le Royal

Session chair: Han Huy Dzung (Hanoi University of Science and Technology, Vietnam)

Time	Title	Presenter
10:35 - 10:55	On the Optimal Beam Selection with Partial Subcarriers on Wideband mmWave Systems	Juho Park (ETRI, Korea)
10:55 - 11:15	IEEE 802.11ax On Performance of Multi-Antenna Technologies with LDPC Codes	Roger Pierre Fabris Hoefel (Federal University of Rio Grande do Sul, Brazil)
11:15 - 11:35	The Design of Low-Iteration Protograph Codes for Rayleigh Fading Channels with Spatial Diversity	Thuy V. Nguyen (Posts and Telecommunications Institute of Technology, Vietnam)

Special Session on Network Softwarization

Time: : 10:35 – 12:15 Room: Le Cinéma A

Session chair: Florian Wamser (University of Wuerzburg, Germany)

Time	Title	Presenter
10:35 - 10:55	Invited paper: Maximizing Cache Value for Distributing Content via Small Cells in 5G	John N. Daigle (University of Mississippi, USA)
10:55 - 11:15	Evaluation of a Distributed Control Plane for Managing Heterogeneous SDN-enabled and Legacy Networks	Nicholas Gray (University of Wuerzburg, Germany)
11:15 _ 11:35	Benchmarking the ONOS Controller with OFCProbe	Anh Nguyen-Ngoc(University of Würzburg, Germany)
11:35 _ 11:55	Joint Resource Allocation, Computation Offloading, and Path Planning for UAV Based Hierarchical Fog-Cloud Mobile Systems	Long Bao Le (INRS, University of Quebec, Canada)
11:55 _ 12:15	Blocknetwork for Big Information Fusion and NoSQL Knowledgebase Management	Erdal Cayirci (University of Stavanger, Norway)
11:55 _ 13:30	Lunch at Restaurant Jules	Ferry

TRACK: ELECTRONICS SYSTEMS

Thursday, 19 July, 2018

ES- 1: Electronic 1 Time: 8:45 - 9:45 Room: Le Royal Session chair: TBD

Time	Title	Presenter
8:45 - 9:05	Hardware Design and Optimization of Multimode Pipeline Based FFT for IEEE 802.11ax WLAN Devices	Linh Dinh (Hanoi University of Science and Technology, Vietnam)
9:05 - 9:25	Training On-chip Hardware with Two Series Memristor Based Backpropagation Algorithm	Huan Minh Vo (Ho Chi Minh University of Technology and Education, Vietnam)
9:25 - 9:45	Development of an Impedance Spectroscopy Measurement Circuit Board for Protein Detection	Tung Thanh Bui (Institute of Applied Physics and Scientific Instrument, Vietnam)
10:05	Coffee Break & Poster Ses	sion 1

10:35 ES- 2: Electronic 2 Time: 10:35 - 11:55 Room: Le Royal

Session chair: Minh D. Nguyen (Hanoi University of Science and Technology, Vietnam)

Time	Title	Presenter
10:35 - 10:55	A 3D Printed Two-axis Tilt Angle Capacitive Sensor	Tung Thanh Bui (VNU University of Engineering and Technology, Vietnam)
10:55 - 11:15	Application of PSO and Bacterial Foraging Optimizations to Speed Control PMSM Servo Systems	Hieu Le Dinh (National University of Science and Technology MISiS, Russia)
11:15 - 11:35	LQG Regulator for Control Moment Gyroscope Based Balancing System	Hien Vu (Hanoi University of Science and Technology, Vietnam)
11:35 _ 11:55	A 600 Kpixels Image Sensor Operates at 100Mfps for Multi- Framing Camera	Anh Quang Nguyen (Hanoi University of Science and Technology, Vietnam)
11:55 - 13:30	Lunch at Restaurant Jules	Ferry

GALA DINER Time: 18:30 – 21:00 Venue: TBD

TRACK: MICROWAVE ENGINEERING

Thursday, 19 July, 2018

ME- 1: Microwave Engineering

Time: 13:30 - 14:50 Room: Le Royal

Session chair: Thanh Huong Nguyen (Hanoi University of Science and Technology & MICA,

Vietnam)

Time	Title	Presenter
13:30	Developement of a LC Passive Wireless Sensor Utilizing Capacitively Coupled Contactless Detection Structure	Loc Quang Do (VNU University of Science, Hanoi, Vietnam)
13:50	Capacitively Coupled Contactiess Detection Structure	
13:50	Design and Optimization of Optical Mode Exchange Based on	Ho Duc Tam Linh (Danang University of
14:10	Cascaded Multimode Interferences	Science and Technology & Hue University of Sciences, Vietnam)
14:10	Circular Polarization Dual-Feed Array Africinia for X-band	Nguyen Khac Kiem (Hanoi University
14:30	Satellite Communication	of Science and Technology, Vietnam)
14:30	A Controllable Triple-band Filter for Wireless Communication	Tran Duong (School of Information
14:50	Applications	Science and Engineering, P.R. China)
15:10		

Coffee Break & Poster Session 2

ME- 1: Antennas Time: 15:40 - 17:20 Room: Le Royal

15:40

Session chair: Hiroshi Shirai (Chuo University, Japan)

Time	Title	Presenter
15:40		Andrea Massaccesi (Politecnico di
_	Multibeam Transmitarrays for 5G Antenna Systems	Torino, Italy)
16:00		Torno, nary)
16:00	La notata et Custavistical I La College de la composition de la college	Son Xuat Ta (Hanoi University of
_	A Low-Profile Base-Station Antenna	Science and Technology, Vietnam)
16:20		
16:20	Beamsteering Phased Array Antenna Using a Full 360O and	Thanh Huong Nguyen (Hanoi University
_	Programmable Continuous Phase Shifter for Indoor Localization	of Science and Technology & MICA, Vietnam)
16:40		
16:40		Son Xuat Ta (Hanoi University of
_	A Low-Cost, Light-Weight, High-Efficiency Fabry-Perot Antenna	
17:00		Science and Technology, Vietnam)
17:00	Minimization of Circularly Polarized Patch Antenna Using	Nguyen Khac Kiem (Hanoi University of
_	Metasurface	Company of the control of the contro
17:20	Weldsurface	Science and Technology, Vietnam)
	CALADINED	•

GALA DINER
Time: 18:30 – 21:00
Venue: TBD

TRACK: SIGNAL PROCESSING AND APPLICATIONS

Thursday, 19 July, 2018

SPA-1: Image processing

Time: 8:45 - 10:05 Room: Banquet

Session chair: Nguyen Tien Dzung (Hanoi University of Science and Technology)

Time	Title	Presenter
8:45	An Adaptive Method for Low-Delay 360 VR Video Streaming over	Truong Cong Thang (Hanoi University
9:05	HTTP/2	of Science and Technology, Vietnam)
9:05	On Selecting the Appropriate Scale in Image Selective	Ngoc Hoang Thanh Dang (Hue College
9:25	Smoothing by Nonlinear Diffusion	of Industry, Vietnam)
9:25	An Analysis of HEVC Compression for Light Field Image	Daniel D Giusto (University of Cagliari &
9:45	Refocusing Applications	CNIT, Italy)
9:45	Regularization Parameter Selection in Image Restoration with	Ngoc Hoang Thanh Dang (Hue College
10:05	Inverse Gradient: Single Scale or Multiscale?	of Industry, Vietnam)
10:05		
10.05	Coffee Break & Poster Sess	sion 1
10:35	Collee Diedk & Fosiel Ses	SIOIT I

SPA- 2: Signal processing

Time: 10:35 - 11:55 Room: Banquet

Session chair: Dong Seog Han (Kyungpook National University)

Time	Title	Presenter
10:35 _ 10:55	Approximation of Equiripple Low-pass FIR Filters	Pavel Zahradnik (University of Technology Prague, Czech Republic)
10:55 _ 11:15	Gaussian Process Modeling of UWB Multipath Components	Anh Nguyen (Hanoi University of Science and Technology, Vietnam)
11:15 _ 11:35	Feedback Active Noise Control Based on Variable Step-size FXLMS Algorithm	Nguyen Vu Anh Duy (HCMC University of Food Industry, Vietnam)
11:35 _ 11:55	Modified Model Based on the Impedance Spectrum of Meat in the Frequency Range 50Hz to 1Mhz	Trung Thanh (Hanoi University of Science and Technology, Vietnam)
11:55 _ 13:30	Lunch at Restaurant Jules	s Ferry
15:10 - 15:40	Coffee Break & Poster Ses	ssion 2

SPA- 3: Information analysis

Time: 15:40 - 17:00 Room: Banquet

Session chair: Pavel Zahradnik (University of Technology Prague, Czech Republic)

Time	Title	Presenter
15:40 _ 16:00	Estimating Skeleton-Based Gait Abnormality Index by Sparse Deep Auto-Encoder	Huu Hung Huynh (Danang University of Science and Technology, Vietnam)
16:00 –	Classification Different Types of Fall for Reducing False Alarm Using Single Accelerometer	Ngoc P Pham (Hanoi University of Sciences and Technology, Vietnam)

17:00		3,,
-	An Approach for Image Analysis Using Complex Network	Science and Technology, Vietnam)
16:40		Nguyen Van Giang (Hanoi University of
16:40	Comparison of Feature Extraction for Accent Dependent Thai Speech Recognition System	Institute of Technology Ladkrabang, Thailand)
16:20		Montri Phothisonothai (King Mongkut's
16:20		

GALA DINER Time: 18:30 – 21:00 Venue: TBD

Friday, 20 July, 2018

SPA – 4: Image privacy and protection

Time: 8:45 – 9:45 Room: Banquet

Session chair: Daniel D Giusto (University of Cagliari & CNIT, Italy)

00001	describing than: Barner B Grasto (Gritter Sity of Gaghart & Graff, Italy)		
Time	Title	Presenter	
8:45 - 9:05	Reversible Data Hiding for Medical Images Using Boundary Expandable Schemes	Chung-Yen Su(National Taiwan Normal University, Taiwan)	
9:05 - 9:25	Frangi Filter-Based Finger Vein Pattern Extraction for Personal Authentication	Viet Dung Nguyen (Hanoi University of Science and Technology, Vietnam)	
9:25 - 9:45	Bit Plane Decomposing Image Encryption Based on Discrete Cat- Hadamard Map	Ta Kim Hue (Hanoi University of Science and Technology, Vietnam)	
10:05 - 10:35	Coffee Break		
11:55			

Samsung's Special Session on LTE Evolution/5G Technologies and Services

	Thursday, 19 July, 2018		
Room	: Le Cinéma B		
8:35	Opening Remarks:		
_	Welcome remark from organizer: Prof. Nguyen Tien Dzung, chair of KICS Vietnam Section		
8:45	 Welcome remark from KICS: Prof. Chung Gu Kang, President of KICS 		
	Welcome remark from Mr. Dongsu Shin, Vice-President of Samsung Electronics		
8:45	Opening Address:		
_	"VKIST - the bridge to connect Korea and Vietnam - Technology Solution Provider for Market winner"		
9:05	by Kum Dongwha, Director of Vietnam-Korea Institute of Science and Technology, Ministry of Science and		
	Technology, Vietnam		
Series	s of Invited Talks: LTE Evolution /5G Trials - 5G Policies		
Time:	Time: 9:05 – 10:05		
Session Chair: Nguyen Huu Thanh, Hanoi University of Science and Technology, Vietnam			
9:05			
_	"5G Vision to Reality" by HanSeok Kim, Master, System Design Lab, Samsung		
9:25			
9:25	"5G Deployment in Vietnam, Policy and Regulation Aspects"		
_	by Nguyen Phong Nha, Vice-Director of Telecommunication Department, Ministry of Information and		
	Communications, Vietnam		
	"Spectrum and Policy for 5G"		
_	by Nguyen Anh Tuan, Deputy Director, The Authority of Frequency Management, Ministry of Information and		

10:05	Communications, Vietnam		
10:05			
10:35	Coffee Break		
	5G Technologies		
	10:35 – 11:50		
Sessi	on chair: Dong Ku Kim (Yonsei University, Korea)		
Time	Title	Presenter	
10:35 - 11:00	5G Technologies and FWA	HanSeok Kim (Master, System Design Lab, Samsung, Korea)	
11:00 - 11:25	Pilot Contamination in Massive MIMO	Han Huy Dung (Hanoi University of Science and Technology, Vietnam)	
11:25 - 11:50	Millimeter-Wave Communications in 5G Cellular Networks	Truong Trung Kien (Post and Telecommunications Institute of Technology, Vietnam)	
11:50 -	Lunch at Restaurant Jules		
13:30	LTE/SO Deployment and Comite Day 11		
	LTE/5G Deployment and Service Provisioning 13:30 – 15:10		
	าร:รบ – าร:าบ on Chair: Hong-Yeop Song (Vice-President of KICS, Korea	a)	
Time	Title	Presenter	
13:30	Towards Network Automation	Yong Seok Park (Principal Engineer, System Design Lab, Samsung, Korea)	
13:55	5G Approaches by Mobile Carrier and a Brief Study on Massive MIMO - Precoder and Detector	Ngo Vu Duc (Vice-Director, Mobifone R&D Center, Vietnam)	
14:20 14:20 - 14:45	5G Toward Verticals	Hyeon Woo Lee (DanKook University, Chair of Global Strategy Committee of 5G FORUM, Korea)	
14:45 - 15:10	5G: Vision on Future Network	Ngo Hoang Anh (Head of 5G R&D Department, Viettel Network Technologies – Viettel Group, Vietnam)	
15:10 -	Coffee Break	, and an	
15:40	Requirements and Expectations of Verticals and Eco-Indu	uetrioe	
	15:40 – 16:55	1311103	
_	on Chair: Sang-Jo Yoo (Inha University, Korea)		
15:40 –	Introduction of KT Public Safety Network	Jun-Ho Jo (Korea Telecom, Korea)	
16:05 16:05	5G V2X and Autonomous Car	Young Lak Kim (Leader of V2X Lab, SK	
16:30 16:30	Introducing H2020 EU-KR 5G Project, Virtual Presence in Moving	Telecom, Korea) Seong-Lyun Kim (Yonsei University,	
- 16:55	Objects through 5G (PriMO-5G)	Korea)	
	Closing Remark by Prof. Sang-Jo Yoo (Inha University) Time: 16:55 – 17:00		
GALA DINER Time: 18:30 – 21:00 Venue: TBD			
venue: 100			

Thursday, 19 July, 2018

IoT Workshop: Workshop in Emerging Technologies in the Era of Internet of Things

Time: : 8:45 – 12:05 Room: Le Cinéma A

	m: Le Cinéma A		
Time	Title	Presenter	
8:45		No. ACTION AND REPORTED TO	
_	Registration	All participants	
09:00			
9:00		JC (PT) (SET IN THE SERVED TO BE SERVED TO SERVED AND A SERVED TO	
_	Opening	Prof. Alan Marshall (University of Liverpool, UK)	
9:05			
9:05			
_	Detection in WIFI network	Alan Marshall (University of Liverpool, UK)	
9:25			
9:25	Smart lighting for Internet of Things and Smart	Nguyen Tan Hung (Da Nang University of Science	
_	Homes	and Technology, Vietnam)	
9:45	11011103	and recimology, victiani)	
9:45	Application-Oriented Scheduling on the	Thoai Nam (Ho Chi Minh University of Technology,	
_	CPU/Coprocessor-based SuperNode-XP Cluster	Vietnam)	
10:05	Of Group occasion based Superfiede At Staster	Violianiy	
10:05			
_	Coffee Break 8	Poster Session 1	
10:35			
10:40			
	Security in Physical Layer for IoT	Zhang Junqing (University of Liverpool, UK)	
11:00			
11:00	Information Security in the Age of IoT and Industry	Nguyen Trong Duong (Director, VNCERT, Ministry of	
_	4.0	Information and Communications, Vietnam)	
11:20	-110	mornator and communications, restrainy	
11:20	QoS Provisioning Capable Cost-Effective SDN-	Le Hai Chau (Post and Telecommunication Institute of	
_	based Switch for IoT Communication	Technology, Vietnam)	
11:40		, sometrage, treatment,	
11:40	IoT-based Smart Irrigation for Precision	Truong Thu Huong (Hanoi University Science and	
_	Agriculture	Technology, Vietnam)	
12:00			
12:00	Olerations	Deed Alex Messale II (15)	
-	Closing	Prof. Alan Marshall (University of Liverpool, UK)	
12:05			
11:55	Lunch at Restaurant Jules Ferry		
-			
13:30			

POSTER SESSIONS:

Thursday, 19 July, 2018 (During coffee breaks)

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Pactar	Session	1
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Tracks: Communication Networks and System; Microwave Engineering

Time	Title	Presenter
	H-polarized Plane Wave Diffraction by Thick Conducting Slits	Khanh Nguyen (Chuo University & Graduate School of Science and Engineering, Japan)
	An IoTs Reconfiguration Framework with Intelligent Context Management	Dang HUYNH-VAN (University of Information Technology - VNUHCM, Vietnam)
	A New Transmit Antenna Selection Algorithm for Precoding in Massive MIMO System	Van-Khoi Dinh (Le Quy Don Technical University, Vietnam)
	An Open Implement of Industrial Communication and Internet of Things (IoT) Using Embedded Linux	Lan Anh Dinh Thi (Hanoi University of Science and Technology, Vietnam)
	Simultaneous Generation of Two Lowest Optical Modes Using Silicon MMI and Y-Junction Couplers	Duong Duy (Posts and Telecommunications Institute of Technology, Vietnam)
10:05 _ 10:35	Construction of Nonlinear Q-Ary M-Sequences with Interleaved Structure by d-Transform	Dang Truong (Vietnam Government Information Security Committee & Institute of Science and Technology of Cryptography, Vietnam)
	A Flexible Split Ring Resonator-based Dual Band Antenna for Wearable Remote Monitoring Device	Thanh Huong Nguyen (Hanoi University of Science and Technology & MICA, Vietnam)
	Sensitivity Gain of Coherent Millimeter-Wave Subcarrier Multiplexed Radio-over-Fiber System	Tuan Nguyen-Van (Danang University of Science and Technology (DUT), Vietnam)
	Dual Polarized Antenna Array for New Generation Communication System	Linh Ho Manh (Hanoi University of Science and Technology, Vietnam)
	Evaluation of Atmopheric Water Vapor by Measuring Attenuation of K+ Satellite Television Waves in Vietnam	Tran Phuc Hung (Hanoi University of Science and Technology, Vietnam)
	Fingerprinting-based Indoor Positioning with Variable Power Maps	Pham Doan Tinh (Hanoi University of Science and Technology, Vietnam)
	Coding Structure for Ultra Multi-channel Audio Signals	Kwangki Kim (Korea Nazarene University, Korea)

Poster Session 2

Tracks: Electronics System; Signal Processing and Applications

Time	Title	Presenter
15:10 _ 15:40	Smartphone Based Indoor Heading Estimation	Alwin Poulose (Kyungpook National University, Korea)
	Short-term South Korean Electricity Load Forecasting with Generalized Additive Models	Jaehee Kim (Duksung Women's University, Korea)
	Color Matching Model Between Different Devices Based on Fully Connected Neural Network	Jongsu Yoon (Yonsei University, Korea)
	Single LED Based Indoor Visible Light Positioning Using Out-of-Focus Blur Based LED Extraction	Joon-Woo Lee (Yonsei University, Korea)
	Cross-Layer Design Approach for High-Reliable, Low-Latency, and Energy-Efficient Industrial Wireless LAN System	Hiroshi Ochi (Kyushu Institute of Technology, Japan)
	The Soft-Decision Decoding Algorithm for Hamming Code Using Zeros Codeword of Dual Code	Nhung Nguyen (University of Economic and Technical Industries & Military Technical Academy, Vietnam)

A Comparative Study on Shape Analysis Methods for Rice Seed Accessions	Nga Thi-Kim Tran (Ho Chi Minh City University of Technology, Vietnam)
Low-Complexity Image Processing Algorithm for Estimating Distance and Actual Size of Subject	Nguyen Huu Phat (School of Electronics and Telecommunications, Vietnam)
A Review of Techniques to Remove the Respiratory Noise for Cardiac Output Measurement Using Impedance Cardiography	Phan Dang Hung (Hanoi University of Science and Technology, Vietnam)
English Alphabetic Characters Recognition Through P300 EEG Signal	Ngoc P Pham (Hanoi University of Sciences and Technology, Vietnam)
Car Re-identification: GoogleNet Vs VGG-16	Cuong Vo-Le (Hanoi University of Science and Technology & School of Electronics and Telecommunications, Vietnam)