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 - 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-Machine by Jan Van der Spiegel, Unive	ne Interface: The Next Frontier" rsity of Pennsylvania, USA	
12:00 _ 13:30		Lunch at Restaurant Jules Fe	rry
	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.	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 - 15:30	Coffee Break		

15:30 _ 17:00	Tutorial 1 (cont.)	Tutorial 2 (cont.)	Tutorial 2 (cont.) Tuto		orial 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 Sessio	n 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 Fe	rry	
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 ering	CNS – 2: Cognitive Radio
15:10 _ 15:40		Coffee Break & Poste	r Sessio	n 2	
15:40 _ 17:20	CNS-3: WSN and loT	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 Venue: TBD	0		
		Friday, 20 July, 201	8		
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: Channe and Cod	l Modeling	SPA-4: Image privacy and protection

Coffee Break

10:05

10:35

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			
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. Phuoc Tran-Gia, Vice-president, University of Wuerzburg, Germany.			
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 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 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.		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 - 13:30	Lunch at Restaurant Jules Ferry		
CNS-	1: Network Applications		
	: 13:30 – 15:00		
Room	: Le Cinéma A		
Session	on chair: Nguyen Thanh Chuyen (Hanoi University of Scie	ence and Technology, Vietnam)	
Time	Title	Presenter	
13:30 - 14:00	Invited Talk: Mobility-assisted data transmission systems for offloading and extending conventional communication networks	Promethee Spathis (Sorbonne University)	
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	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		
	13:30 – 14:50		
Room	: Banquet		
Session	on chair: Long Le (INRS, University of Quebec, Canada)		
Time	Title	Presenter	
13:30 - 13:50	Downlink Outage Analysis for Cognitive Cooperative Radio Networks Employing Non-Orthogonal Multiple Access	Thi My Chinh Chu (Blekinge Institute of Technology, Sweden)	
13:50 - 14:10	Symbol Error Rate and Achievable Rate of Cognitive Cooperative Radio Networks Utilizing Non-Orthogonal Multiple Access	Hans-Juergen Zepernick (Blekinge Institute of Technology, Sweden)	
14:10 - 14:30	Multiuser MISO Beamforming Design for Balancing the Received Powers in Secure Cognitive Radio Networks	Pham Viet Tuan (University of Ulsan, Korea)s	
14:30 _ 14:50	Multi-Objective Optimal Resource Allocation Using Particle Swarm Optimization in Cognitive Radio	Sang-jo Yoo (Inha University, Korea)	
15:10 - 15:40	Coffee Break & Poster Sess	sion 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	Nhan Ly-Trong (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	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	Amirhossein 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 - 10:35	Coffee Break		

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 Royal

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

Time	Title	Presenter
10:35 - 10:55	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: Minh D. Nguyen (Hanoi University of Science and Technology, Vietnam)

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	Tuan Vu Quoc (Institute of Applied Physics and Scientific Instrument, Vietnam)
10:05 - 10:35	Coffee Break & Poster Session 1	

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

Session chair: Pham Ngoc Nam (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	
CALA DINED		

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,

Time	Title	Presenter
13:30 - 13:50	Developement of a LC Passive Wireless Sensor Utilizing Capacitively Coupled Contactless Detection Structure	Loc Quang Do (VNU University of Science, Hanoi, Vietnam)
13:50 - 14:10	Design and Optimization of Optical Mode Exchange Based on Cascaded Multimode Interferences	Ho Duc Tam Linh (Danang University of Science and Technology & Hue University of Sciences, Vietnam)
14:10 - 14:30	Circular Polarization Dual-Feed Array Antenna for X-Band Satellite Communication	Phong Nguyen Duy (Hanoi University of Science and Technology, Vietnam)
14:30 - 14:50	A Controllable Triple-band Filter for Wireless Communication Applications	Tran Duong (School of Information Science and Engineering, P.R. China)
15:10 - 15:40	Coffee Break & Poster Session 2	

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

Session chair: Hiroshi Shirai (Chuo University, Japan)

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

GALA DINER Time: 18:30 - 21:00 **Venue: TBD**

TRACK: SIGNAL PROCESSING AND APPLICATIONS

Classification Different Types of Fall for Reducing False Alarm

Using Single Accelerometer

16:00

16:20

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) **Presenter** 8:45 An Adaptive Method for Low-Delay 360 VR Video Streaming over Dang Nguyen (Hanoi University of HTTP/2 Science and Technology, Vietnam) 9:05 9:05 On Selecting the Appropriate Scale in Image Selective Ngoc Hoang Thanh Dang (Hue College **Smoothing by Nonlinear Diffusion** of Industry, Vietnam) 9:25 9:25 An Analysis of HEVC Compression for Light Field Image Daniel D Giusto (University of Cagliari & **Refocusing Applications** CNIT, Italy) 9:45 9:45 Regularization Parameter Selection in Image Restoration with Ngoc Hoang Thanh Dang (Hue College Inverse Gradient: Single Scale or Multiscale? of Industry, Vietnam) 10:05 10:05 Coffee Break & Poster Session 1 10:35 SPA- 2: Signal processing Time: 10:35 - 11:55 **Room: Banquet** Session chair: Dong Seog Han (Kyungpook National University) Presenter Time 10:35 Pavel Zahradnik (University of Approximation of Equiripple Low-pass FIR Filters **Technology Prague, Czech Republic)** 10:55 10:55 Anh Nguyen (Hanoi University of Gaussian Process Modeling of UWB Multipath Components Science and Technology, Vietnam) 11:15 11:15 Feedback Active Noise Control Based on Variable Step-size Nguyen Le Thai (HCMC University of Food Industry, Vietnam) **FXLMS Algorithm** 11:35 11:35 Modified Model Based on the Impedance Spectrum of Meat in Trung Thanh (Hanoi University of the Frequency Range 50Hz to 1Mhz Science and Technology, Vietnam) 11:55 11:55 **Lunch at Restaurant Jules Ferry** 13:30 15:10 Coffee Break & Poster Session 2 15:40 SPA- 3: Information analysis Time: 15:40 - 17:00 **Room: Banquet** Session chair: Pavel Zahradnik (University of Technology Prague, Czech Republic) Time Presenter 15:40 Estimating Skeleton-Based Gait Abnormality Index by Sparse Huu Hung Huynh (Danang University of **Deep Auto-Encoder** Science and Technology, Vietnam) 16:00

Ngoc P Pham (Hanoi University of

Sciences and Technology, Vietnam)

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

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)

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 - 13:30	Lunch at Restaurant Jules Ferry	

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

	<u> </u>		
	Thursday, 19 July, 2018		
Room	n: Le Cinéma B		
8:35	Opening Remarks:		
- 8:45	 Welcome remark from organizer: Prof. Nguyen Tien Dzung, chair of KICS Vietnam Section 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:	9:05 – 10:05		
Sessi	on 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		
9:45	"Spectrum and Policy for 5G"		
_	by Nguyen Anh Tuan, Deputy Director, The Authority of Frequency Management, Ministry of Information and		
	Communications, Vietnam		
10:05 —	Coffee Break		

10:35			
SS-1: 5G Technologies			
	Time: 10:35 – 11:50		
Sessi	Session chair: Dong Ku Kim (Yonsei University, Korea)		
Time	Title	Presenter	
10:35 —	5G Technologies and FWA	HanSeok Kim (Master, System Design Lab, Samsung, Korea)	
11:00		Lab, Gamsung, Rolea)	
11:00 - 11:25	Pilot Contamination in Massive MIMO	Han Huy Dung (Hanoi University of Science and Technology, Vietnam)	
11:25 -	Millimeter-Wave Communications in 5G Cellular Networks	Truong Trung Kien (Post and Telecommunications Institute of	
11:50		Technology, Vietnam)	
11:50	Lunch at Restaurant Jules	Ferry	
13:30	LTE/EO Deuterment and Comice Duraticionin		
	LTE/5G Deployment and Service Provisioning		
_	13:30 - 15:10	a)	
Time	on Chair: Hong-Yeop Song (Vice-President of KICS, Korea	Presenter	
	litie	1100011101	
13:30 - 13:55	Towards Network Automation	Yong Seok Park (Principal Engineer, System Design Lab, Samsung, Korea)	
13:55 - 14:20	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 - 14:45	5G Toward Verticals	HyeonWoo Lee (DanKook University, Chair of Global Strategy Committee of 5G FORUM, Korea)	
14:45 - 15:10	5G: The Network Vision	Ngo Hoang Anh (Head of 5G R&D Department, Viettel Network Technologies – Viettel Group, Vietnam)	
15:10 - 15:40	Coffee Break		
	Requirements and Expectations of Verticals and Eco-Indu	estries	
	15:40 – 16:55	1011100	
	on Chair: Prof. Sang-Jo Yoo, Inha University		
15:40	on onant rion oang oo roo, mila omversity		
16:05	Introduction of KT Public Safety Network	Jun-Ho Jo (Korea Telecom, Korea)	
16:05 —	5G V2X and Autonomous Car	Young Lak Kim (Leader of V2X Lab, SK Telecom, Korea)	
16:30			
16:30 - 16:55	Introducing H2020 EU-KR 5G Project, Virtual Presence in Moving Objects through 5G (PriMO-5G)	Seong-Lyun Kim, Yonsei University	
Closing Remark by Prof. Sang-Jo Yoo (Inha University)			
Time: 16:55 – 17:00			
GALA DINER			
	Time: 18:30 – 21:00		
Venue: TBD			
venue: IBD			

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

	bom: Le Cinema A		
Time	Title	Presenter	
8:45 - 09:00	Registration	All participants	
9:00 - 9:05	Opening	Prof. Alan Marshall (University of Liverpool, UK)	
9:05 - 9:25	Detection in WIFI network	Alan Marshall (University of Liverpool, UK)	
9:25 - 9:45	Smart lighting for Internet of Things and Smart Homes	Nguyen Tan Hung (Da Nang University of Science and Technology, Vietnam)	
9:45 - 10:05	Application-Oriented Scheduling on the CPU/Coprocessor-based SuperNode-XP Cluster	Thoai Nam (Ho Chi Minh University of Technology, Vietnam)	
10:05 - 10:35	Coffee Break & Poster Session 2		
10:40 - 11:00	Security in Physical Layer for IoT	Zhang Junqing (University of Liverpool, UK)	
11:00 - 11:20	Information Security in the Age of IoT and Industry 4.0	Nguyen Trong Duong (Director, VNCERT, Ministry of Information and Communications, Vietnam)	
11:20 - 11:40	QoS Provisioning Capable Cost-Effective SDN-based Switch for IoT Communication	Le Hai Chau (Post and Telecommunication Institute of Technology, Vietnam)	
11:40 - 12:00	IoT-based Smart Irrigation for Precision Agriculture	Truong Thu Huong (Hanoi University Science and Technology, Vietnam)	
12:00 - 12:05	Closing	Prof. Alan Marshall (University of Liverpool, UK)	
11:55 - 13:30	Lunch at Restaurant Jules Ferry		

POSTER SESSIONS:

Thursday, 19 July, 2018 (During coffee breaks)

	(Burning contect	· · · · · · · · · · · · · · · · · · ·	
	r Session 1		
Tracks: Communication Networks and System; Microwave Engineering			
Time	Title	Presenter (2)	
	H-polarized Plane Wave Diffraction by Thick	Khanh Nguyen (Chuo University & Graduate	
	Conducting Slits	School of Science and Engineering, Japan)	
	An IoTs Reconfiguration Framework with Intelligent	Tuen Nauven Anh / University of Information	
	Context Management	Tuan Nguyen-Anh (University of Information	
		Technology - VNUHCM, Vietnam)	
	A New Transmit Antenna Selection Algorithm for	Van-Khoi Dinh (Le Quy Don Technical University,	
	Precoding in Massive MIMO System	Vietnam)	
	An Open Implement of Industrial Communication and	Lan Anh Dinh Thi (Hanoi University of Science and	
	Internet of Things (IoT) Using Embedded Linux	Technology, Vietnam)	
	Simultaneous Generation of Two Lowest Optical	Duong Duy (Posts and Telecommunications	
	Modes Using Silicon MMI and Y-Junction Couplers	Institute of Technology, Vietnam)	
	wodes using silicon with and 1-sunction couplers	institute of reciniology, vietnami	
	Construction of Nonlinear O Any M. Securement with	Dang Truong (Vietnam Government Information	
10:05	Construction of Nonlinear Q-Ary M-Sequences with	Security Committee & Institute of Science and	
10.03	Interleaved Structure by d-Transform	Technology of Cryptography, Vietnam)	
10:35	A Flexible Split Ring Resonator-based Dual Band	Thanh Huong Nguyen (Hanoi University of Science	
10100	Antenna for Wearable Remote Monitoring Device	and Technology & MICA, Vietnam)	
	Sensitivity Gain of Coherent Millimeter-Wave	Hung Nguyen-Tan (Danang University of Science	
	Subcarrier Multiplexed Radio-over-Fiber System	and Technology (DUT), Vietnam)	
	Dual Polarized Antenna Array for New Generation	Linh Ho Manh (Hanoi University of Science and	
	Communication System	Technology, Vietnam)	
	Evaluation of Atmopheric Water Vapor by Measuring		
	Attenuation of K+ Satellite Television Waves in	Vinh Nguyen (Hanoi University of Science and	
	Vietnam	Technology, Vietnam)	
	Fingerprinting-based Indoor Positioning with Variable	Thoi Hoang (Hanoi University of Science and	
	Power Maps	Technology, Vietnam)	
	Fingerprinting-based Indoor Positioning with Variable	Thoi Hoang (Hanoi University of Science and	
	Power Maps	Technology, Vietnam)	
	Coding Structure for Ultra Multi-channel Audio		
	Signals	Kwangki Kim (Korea Nazarene University, Korea)	
Poste	r Session 2		
Tracks	s: Electronics System; Signal Processing and A		
Time	Title	Presenter	
	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	Jongsu Yoon (Yonsei University, Korea)	
15:10	Based on Fully Connected Neural Network	Jongsu Tooli (Torisei Olliveisity, Noiea)	
13.10	Single LED Based Indoor Visible Light Positioning		
15:40	Using Out-of-Focus Blur Based LED Extraction	Joon-Woo Lee (Yonsei University, Korea)	
	•		
	Cross-Layer Design Approach for High-Reliable,	Hiroshi Ochi (Kyushu Institute of Technology,	
	Low-Latency, and Energy-Efficient Industrial	Japan)	
	Wireless LAN System		
	The Soft-Decision Decoding Algorithm for Hamming	Nhung Nguyen (University of Economic and	
	Code Using Zeros Codeword of Dual Code	Technical Industries & Military Technical Academy,	
	2000 Coming Ecros Code Word of Dual Code	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	Hoang Lai (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)