Final Technical Program

2014 Fifth IEEE International Conference on Communications and Electronics (ICCE)

CONFERENCE AT A GLANCE

- Number of submitted papers	228
- Number of full accepted papers	96
- Number of poster papers	29
- Full acceptance rate	42,1%
- Number of countries	24

PROGRAM AT A GLANCE

	Wednesday, July 30 th , 2014				
08:45 – 09:15	Opening Ceremony: - Speech of General Co-Chairs: Prof. Nguyen Xuan Quynh, The State Council for Professor Title, Vietnam - Conference introduction: Prof. Serge Fdida, Université Pierre et Marie Curie, France				
Time: 09:1! Room: Lot u	Keynote Session Time: 09:15 – 12:35 Room: Lotus Session Chair: Phuoc Tran-Gia, University of Würzburg, Germany				
09:15 – 10:00		of Sustained Research Commu eorgia Tech. and formally NSF, L			
10:00 – 10: 45	Keynote 2: "GENI – Global Environment by Prof. Chip Elliott's, GENI P	for Network Innovations ", roject Office and Raytheon BBN	Technologies, USA		
10:45 – 11:05		Coffee	: Break		
11:05 – 11:50	Keynote 3: "Magnetic Resonance Imaging: It's just a Fourier Transform", by Prof. Gary Glover, Radiological Sciences Laboratory, University of Stanford, USA				
11:50 – 12:35	Keynote 4: "5G: Era beyond I by Dr. Chih-Lin I, China Mobil	Data Rate" , e Chief Scientist of Wireless Tec	hnologies, China		
12:35 – 14:00		Lunch at Res	taurant Epice		
	Room: Lotus I	Room: Lotus II	Room: Lotus III	Room: Jasmine	
14:00 – 15:30	Past, Present and Future" by Hans-Jürgen Zepernick,	Tutorial 2: "Immersive Visual Communication with Depth" by Minh N. Do, University of Illinois at Urbana-Champaign, USA	Nguyen², Phuoc Tran-Gia¹,	Tutorial 4: "Free Space Materials Characterization at 110GHz and beyond", by Thang Yong Wee, Agilent Technologies	
15:30 – 16:00	Coffee Break				
16:00 – 18:00	Tutorial 1 (cont.)	Tutorial 2 (cont.)		Tutorial 4 (cont.)	

	Thursday, July 31 st , 2014					
	Room: Lotus I	Room: Lotus II	Room: Lotus III	Room: Jasmine	Room: Hibicus	Room: Magnolia
8:45 - 10:05	CN-1: Fiber-Optic Communications 1	CN-7: Future Internet		ME-1: Multi- band and Wide- band Antennas	SPA-1: Image and video processing I	SS-1: Crowdsourcing and Crowdsourcing Applications
10:05 - 10:45				oster Session 1 – nications		
10:45 - 12:05	CN-2: Fiber-Optic Communications 2	CN-8: Software- Defined Networking	ES-1: DSP on FPGA	ME-2: Antennas and Propagation	SPA-2: Image and video processing II	SS-2: Information Hiding and Security in communications: Recent Developments
12:05 -13:45	Lunch at Restaurant Epice					
13:45 - 15:25	CN-3 : Wireless Communications 1	CN-9: Energy- aware Networking	ES-2: Smart Sensor & Analog Devices 1	ME-3: Microwave Components, Subsystems and Applications	SPA-3: Signal detection and estimation	SS-2 (cont.): Information Hiding and Security in communications: Recent Developments
15:25– 16:05	Coffee Break & Poster Session 2 - Electronics					
16:05– 17:45	CN-4 : Cognitive Radio	CN-10: Ad hoc and Sensor Networks	ES-3: Smart Sensor & Analog Devices 2			

GALA DINER

Time: 18:30 - 21:00

	Friday, August 1 st , 2014					
	Room: Lotus I	Room: Lotus II	Room: Lotus III	Room: Jasmine	Room: Hibicus	Room: Magnolia
8:45 – 10:05	CN-5: Wireless Communications 2	CN-11: Free Space Optical Communications	ES-4: ASIC Design and Verification			
10:05 - 10:45	Coffee Break					
10:45 - 12:05	CN-6: Wireless Communications 3	CN-12: Network Infrastructure and Services	ES-5: Computer and Memory Systems			

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 A1

	Wednesday, July 30 th , 2014					
Time	ICCE 2014 Agenda					
8:00	3					
_	Registration					
8:45						
Opening Time: 09	3 0:00 – 09:30					
Room: L						
8:45	Opening ceremony					
- 0.1F			Quynh, The State Council for Prof			
9:15 Keynote		ction: Prof. Serge Faida, Univers	sité Pierre et Marie Curie, France	2		
-	9:15 – 12:35					
Room: L						
	Chair: Phuoc Tran-Gia, Univers	ity of Würzburg, Germany				
09:15	Keynote 1:	igins of GENI: A Story of Sustaine	ed Research Community Engage	ment"		
10:00		y Prof. Peter A. Freeman, Georg		mene ,		
10:00						
-	Keynote 2:	"CENIL Clobal Facilitation of the	for Notwork Investises "			
10: 45	by Prof. Chin Elliott's GENI P	"GENI – Global Environment oject Office and Raytheon BBN"				
10:45	by 1101. Crip Emote 3, GENT1	oject office and naytheoff bbit	recimologics, os/t			
_		Coffee	Break			
11:05						
11:05	Keynote 3:	"Magnetic Resonance Imaging:	It's just a Fourier Transform"			
11:50	by Prof. G		Laboratory, University of Stanfo	ord, USA		
11:50	Keynote 4:	, , ,	, , , , , , , , , , , , , , , , , , ,	·		
_		"5G: Era beyon				
12:35 12:35	by Dr. C	hih-Lin I, China Mobile Chief Sci	entist of Wireless Technologies,	China		
-		Lunch at Resta	aurant Epice			
14:00			·			
	Room: Lotus I	Room: Lotus II	Room: Lotus III	Room: Jasmine		
14:00 _ 15:30	Tutorial 1: "Quality of Mobile Multimedia Experience: Past, Present and Future", by Prof. Hans-Jürgen Zepernick, Institute of Communication Systems of the Faculty of Computing of the Blekinge Institute of Technology (BTH), Karlskrona, Sweden	Tutorial 2: "Immersive Visual Communication with Depth", Prof. Minh N. Do, University of Illinois at Urbana-Champaign, USA	Tutorial 3: "Crowdsourcing – From Theory to Practice", by by Matthias Hirth ¹ , Nhatvi Nguyen ² , Prof. Phuoc Tran- Gia ¹ ¹ University of Würzburg, Germany ² Weblabcenter Inc., USA	Tutorial 4: "Free Space Materials Characterization at 110GHz and beyond" by Mr. Thang Yong Wee, Agilent Technologies		
15:30 - 16:00	Coffee Break					
16:00 - 18:00	Tutorial 1 (cont.): "Quality of Mobile Multimedia Experience: Past, Present and Future", by Prof. Hans-Jürgen Zepernick, Institute of Communication Systems of the Faculty of Computing of the Blekinge Institute of Technology	Tutorial 2 (cont.): "Immersive Visual Communication with Depth", Prof. Minh N. Do, University of Illinois at Urbana-Champaign, USA		Tutorial 4 (cont.): "Free Space Materials Characterization at 110GHz and beyond" by Mr. Thang Yong Wee, Agilent Technologies		

_			
	(BTH), Karlskrona, Sweden		

ORAL SESSIONS:

TRACK: COMMUNICATION NETWORKS AND SYSTEMS

Thursday, July 31st, 2014

CN-1: Fiber-Optic Communications 1

Time: 9:05 - 10:05 Room: Lotus I

Session chair: Yoshinori Namihira (University of Ryukyu, Japan)

Time	Title	Authors
9:05 -	Invited paper: Rigorous characterization of Nano-	B.M.A. Rahman (City University London, UK)
9:25	photonic Devices	B.W.A. Kallillali (City Offiversity London, OK)
9:25 - 9:45	Generation of FCC-compliant ultra-wideband waveforms using directly modulated semiconductor distributed-feedback laser	Quang Trung Le, Dieter Briggmann, and Franko Kueppers (Technische Universit¨at Darmstadt, Germany)
9:45 – 10:05	A Study on Measuring Refractive Index by Using an Optoelectronic Oscillator	Toan Thang Pham, Isabelle Ledoux-Rak, and Bernard Journet; (Institut d'Alembert, ENS Cachan, France) Van Yem Vu (Hanoi University of Science and Technology, Vietnam)

CN-7: Future Internet

Time: 8:45 - 10:05 Room: Lotus II

Session chair: Serge Fdida (Université Pierre et Marie Curie, France)

Time	Title	Authors
8:45 -		Mark Berman and Chip Elliott (GENI Project Office, Raytheon
9:05	GENI: Large-Scale Distributed Infrastructure for	BBN Technologies Cambridge, MA, USA); Lawrence
	Networking and Distributed Systems Research	Landweber (GENI Project Office, University of Wisconsin,
		USA)
9:05 -	Adaptive Video Streaming with Smooth Advertisement	Hung T. Le, Anh T. Pham, and Truong Cong Thang (The
9:25	Adaptive Video Streaming with Smooth Advertisement	University of Aizu, Aizu-Wakamatsu, Japan); Pham Ngoc
	Insertion	Nam (Hanoi University of Science and Technology, Vietnam)
9:25 -	Oos aware Mulki Claud Draharing for NCN Samines	Thomas Magedanz (Technische Universitat Berlin, Germany);
9:45	QoS-aware Multi-Cloud Brokering for NGN Services	Florian Schreiner (Fraunhofer FOKUS Institute, Germany)
9:45 -		Julius Mueller, Yahya Al-Hazmi, and Thomas Magedanz
10:05		(Technical University, Berlin, Germany); David Palma
		(OneSource, Coimbra, Portugal); Giada Landi (Nextworks,
	Monitoring as a Sorvice for Cloud Environments	Pisa, Italy); João Soares and Bruno Parreira (Portugal
	Monitoring as a Service for Cloud Environments	Telecom Inovação, Portugal); Thijs Metsch (Intel GmbH,
		Dublin, Ireland); Peter Gray and Alexander Georgiev
		(CloudSigma, Zurich, Switzerland); Paulo Simões (University
		of Coimbra, Portugal)

Coffee Break & Poster Session 1

Time: 10:05 - 10:45 (see below for detailed poster program)

CN-2: Fiber-Optic Communications 2

Time: 10:45 - 11:45 Room: Lotus I

Session chair: Aziz Rahman (City University London, UK)

30331011 0	Session chair. Aziz Ramman (City Oniversity London, Ok)				
Time	Title	Authors			
10:45 -	Light Source Decign Using Hollow Core Photonic Crystal	Md. Anwar Hossain, Yoshinori Namihira, and Takuro Yasui			
11:05	Light Source Design Using Hollow Core Photonic Crystal	(University of the Ryukyus, Japan); Nguyen Hoang Hai (Hanoi			
	Fibers	University of Science and Technology, Vietnam)			
11:05 -	A 622 Mbit/s Transmitter for POF-based Home	V. D. Trong and P. H. Binh (Vietnam Academy of Science and			
11:25	•	Technology			
	Networks using Red LED	Hanoi, Vietnam); T. C. Thang (University of Aizu)			
11:25 -	New Proposal of Chromatic Dispersion Control in	Nghiem Xuan Tam, Nguyen Xuan Son, Pham Hong Thai, and			
11:45	Honey Comb Photonic Crystal Fiber for Broadband	Nguyen Hoang Hai (Hanoi University of Science and			
	Communication	Technology, Vietnam)			

CN-8: Software-Defined Networking

Time: 10:45 - 12:05 Room: Lotus II

Session chair: Chip Elliott (GENI Project Office and Raytheon BBN Technologies, USA)

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Time	Title	Authors		
10:45 - 11:05	<i>Invited talk</i> : "Software Defined Systems: From SDN to SDI"	Paul Mueller (University of Kaiserslautern, Germany)		
11:05 - 11:25	OFCProbe: A Platform-Independent Tool for OpenFlow Controller Analysis	Michael Jarschel, Christopher Metter, Thomas Zinner; Steffen Gebert, and Phuoc Tran-Gia (University of		
11.23	Controller Arialysis	Steller Gebert, and Fildoc Hall-Gla (Olliversity Ol		

		W¨urzburg, Germany)
11:25 -	Model of Organization and Distribution of Applications	Rômulo S. Pinheiro, Billy A. Pinheiro, and Antonio Jorge
11:45	for Software Defined Networks: SDNrepo	Gomes Abelem (Federal University of Para, Brazil)
11:45 -	Running Lifecycle Experiments over SDN-enabled	Aris Cahyadi Risdianto, Taeheum Na, and JongWon Kim
12:05	OF@TEIN Testbed	(Gwangju Institute of Science and Technology, Korea)

Lunch at Restaurant Epice Time: 12:05 - 13:45

CN-3: Wireless Communications 1

Time: 14:05 - 15:25 Room: Lotus I

Session chair: Vo Nguyen Quoc Bao (Post and Telecommunications Institute of Technology, Vietnam)

Time	Title	Authors
14:05 – 14:25	Clustered Precoding for Coordinated Multi-Cell Systems Based on Signal-to-Leakage Ratios	Mehdi Sadeghzadeh, Hamid Reza Bahrami, and Nghi H. Tran (The University of Akron, USA)
14:25 – 14:45	Channel Estimation Method for SFBC MIMO-OFDM Based Wireless Two-Way Relay System in Time-Varying Fading Channel	Tanairat Mata, Kazuo Mori, and Hideo Kobayashi (Mie University, Japan); Pisit Boonsrimuang (King Mongkut's Institute of Technology Ladkrabang, Thailand)
14:45 – 15:05	Optimal Power Allocation Schemes for Single-Relay AF Wire-Tap Channels	Leonardo Jiménez Rodríguez and Tho Le-Ngoc (McGill University, Canada); Nghi H. Tran (The University of Akron, USA)
15:05 – 15:25	Coordinated Downlink Beamforming in Multicell Wireless Network	H. H. M. Tam, H. D. Tuan, and E. Che (University of Technology Sydney, Australia)

CN-9: Energy-aware Networking

Time: 14:25 - 15:25 Room: Lotus II

Session chair: JongWon Kim (Gwangju Institute of Science and Technology, Korea)

Time	Title	Authors
14:25 -		Tran Manh Nam, Truong Thu Huong, Nguyen Huu Thanh,
14:45	A Reliable Analyzer for Energy-Saving Approaches in	Pham Van Cong, Ngo Quynh Thu, Pham Ngoc Nam, Hoang
	Large Data Center Networks	Quoc Viet, and Luong Dinh Thoa (Hanoi University of Science
		and Technology, Vietnam)
14:45 -	GTP-based Load Model and Virtualization Gain for a	Florian Metzger (University of Vienna, Austria); Christian
15:05	Mobile Network's GGSN	Schwartz and Tobias Hoßfeld (University of Würzburg,
	Mobile Network's dd3N	Germany)
15:05 -	Including Energy Efficiency Aspects in Multi-Layer	Steffen Gebert, David Hock, Matthias Hartmann, Joachim
15:25	Optical Network Design	Spoerhase, Thomas Zinner, and Phuoc Tran-Gia (University
	Obtical Metwork Design	of Würzburg, Germany)

Coffee Break & Poster Session 2

Time: 15:25 - 16:05 (see helow for detailed poster program

CN-4: Cognitive Radio Time: 16:05 – 17:45 Room: Lotus I

Session chair: Nghi H. Tran (The University of Akron, USA)

Time	Title	Authors
16:05 -	Title	Nguyen Hong Giang (Telecommunications University,
16:25	Receive Diversity in Cognitive Relay Transmission:	Vietnam); Vo Nguyen Quoc Bao (Posts and
	Outage Analysis	Telecommunications Institute of Technology, Vietnam);
		Hung Nguyen-Le (University of Danang, Vietnam)
16:25 -	Cognitive AF Relay Assisting both Primary and	Thi My Chinh Chu, Hoc Phan, and Hans-Juergen Zepernick
16:45	Secondary Transmission with Beamforming	(Blekinge Institute of Technology, Sweden)
16:45 -	BER Analysis of Underlay Relay Cognitive Networks	Khuong Ho-Van (HoChiMinh City University of Technology,
17:05	with Imperfect Nakagami-m Fading Channel	Vietnam)
	Information	Vietnami
17:05 -	On the Performance of Underlay Cooperative Cognitive	Khuong Ho-Van (HoChiMinh City University of Technology,
17:25	Networks with Relay Selection under Imperfect	Vietnam)
	Channel Information	Vietnami
17:25 -	A game-theoretic framework for opportunistic	Ca Van Phan (University of Technical Education Ho Chi Minh
17:45	transmission in wireless networks	City, Vietnam)

CN-10: Ad hoc and Sensor Networks

Time: 16:05 - 17:45 Room: Lotus II

Session chair: Matthias Hirth (University of Würzburg, Germany)

Time	Title	Authors
16:05 -	An Efficient Method for Gathering Data Considering	Phat Nguyen Huu and Vinh Tran-Quang (Hanoi University of
16:25	Energy and Delay Time on WSNs	Science and Technology, Vietnam)
16:25 -	A Simple Method for Localization in Wireless Sensor	Chuyen T. Nguyen and Van Yem Vu (Hanoi University of
16:45	Networks	Science and Technology, Vietnam); Yao-Win Peter Hong
	INCLINOLING	(National Tsing-Hua University, Taiwan)

16:45 -	Toward Commodity Wireless Multihop Access	Quang Tran Minh, Kien Nguyen, and Shigeki Yamada (
17:05	Networks	National Institute of Informatics, Japan)
17:05 - 17:25	A Low Duty-Cycle XT-MAC Protocol for Target Tracking in Wireless Sensor Networks	Quan Nguyen-Trung, Thu Ngo-Quynh, and Vinh Tran-Quang (Hanoi University of Science and Technology, Hanoi, Vietnam)
17:25 -	Group Steiner Tree Model for Energy Efficient Multicast	Nguyen Thai Duong, Son Hong Ngo, and Huynh T. Thanh
17:45	in Duty-Cycle Wireless Sensor Networks	Binh (Hanoi University of Science and Technology, Vietnam)

GALA DINER

From 18:30 - 21:00

Venue: Beach side, Pullman Beach Resort Danang

Friday, August 1st, 2014

CN-11: Free Space Optical Communications

Time: 8:45 - 10:05 Room: Lotus II

Session chair: Nguyen Van Tuan (Da Nang University of Science and Technology, Vietnam)

Time	Title	Authors
08:45 – 09:05	Performance of Free-Space Optical Communications Using SC-QAM Signals Over Strong Atmospheric Turbulence and Pointing Errors	Ha Duyen Trung and Tuan Do Trong (Hanoi University of Science and Technology, Vietnam)
09:05 -09:25	APD-based Amplify-and-Forward Serial Relaying FSO Systems over Gamma-Gamma Channels	Thanh V. Pham, Ngoc T. Dang, and Anh T. Pham (University of Aizu, Japan)
09:25 – 09:45	Design and Performance Evaluation of VLC Indoor Positioning System using Optical Orthogonal Codes	Sari Yamaguchi, Vuong V. Mai, Truong C. Thang, and Anh T. Pham (University of Aizu, Japan)
09:45 – 10:05	Performance Analysis of Indoor MIMO Visible Light Communication Systems	Ngoc-Anh Tran, Duy A. Luong, Truong C. Thang, and Anh T. Pham (University of Aizu, Japan)

CN-5: Wireless Communications 2

Time: 9:05 - 10:05 Room: Lotus I

Session chair: Ha Duyen Trung (Hanoi University of Science and Technology, Vietnam)

Time	Title	Authors
9:05 -		Pham Hai Dang and Nguyen Tien Dung (Hanoi University of
9:25	A Proposed Iterative Decoder for ATSC Standard	Science and Technology, Vietnam); Tran Minh Hai (University
		of the Ryukyus, Japan)
9:25 -	Symbol-Based Parallel Message-Passing Decoding on	Wicharn Singhaudom and Pornchai Supnithi (King Mongkut's
9:45	Partial-Response Channels	Institute of Technology Ladkrabang, Thailand)
9:45 -	A Nonlinear Method of Multipath Mitigation for new	Hung Pham Viet, Chien Dao Ngoc, and Khang Nguyen Van
10:05	GNSS signals	(Hanoi University of Science and Technology, Vietnam)

<u>Coffee Break</u> Time: 10:05 - 10:45

CN-6: Wireless Communications 3

Time: 10:45 - 11:45 Room: Lotus I

Session chair: Pornchai Supnithi (KMITL, Thailand)

30331011 0	Session chair. Torneral Supmern (North E, Thailand)		
Time	Title	Authors	
10:45 - 11:05	An OFDM-based Chaotic DSSS Communication System with M-PSK Modulation	Nguyen Xuan Quyen, Le Van Cong, Nguyen Huu Long, and Vu Van Yem (Hanoi University of Science and Technology, Vietnam)	
11:05 - 11:25	A Geometry-Based Channel Model for Shallow Underwater Acoustic Channels Under Rough Surface and Bottom Scattering Conditions	Meisam Naderi, Matthias Pätzold (University of Agder, Norway); Alenka G. Zajic (Georgia Institute of Technology, USA)	
11:25 - 11:45	Experimental Testing of Asymmetric Underwater Acoustic Networks	Usa Vilaipornsawai, Ant'onio Silva, and S'ergio M. Jesus (University of Algarve, Portugal)	

CN-12: Network Infrastructure and Services

Time: 10:45 - 12:05 Room: Lotus II

Session chair: Paul Mueller (University of Kaiserslautern, Germany)

Time	Title	Authors
10:45 - 11:05	Chaotic Ad-hoc Data Network A Bike Based System for City Networks	Bernhard Isemann, Markus Gruber, Janki Grünberger, Christian Schanes, and Thomas Grechenig (Vienna University of Technology, Austria)
11:05 - 11:25	A Tracking Area List Configuration Method to Mitigate Burst Location Updates	Satoshi Ikeda, Nobuharu Kami, and (NEC Corporation, Japan)
11:25 - 11:45	Hybrid Priority Schemes for the Message Scheduling for CAN-Based Networked Control Systems	NGUYEN Trong Cac and NGUYEN Van Khang (Hanoi University of Science and Technology, Vietnam); NGUYEN Xuan Hung (UINT Company, France)
11:45 -	A New Technique to Enhance Accuracy of WLAN	Long Vu-Hoang, Hung Nguyen-Manh, Chinh Phan-Duy, Dung

12:05	Fingerprinting Based Indoor Positioning System	Le-Quang, Thanh Do-Van, and Vinh Tran-Quang (Hanoi
		University of Science and Technology, Vietnam)

TRACK: ELECTRONICS SYSTEMS

Thursday, July 31st, 2014

ES-1: DSP on FPGA Time: 10:45 - 12:05

Room: Lotus III

Session chair: Francis M. Bui (University of Saskatchewan, Canada)

Time	Title	Authors
10:45 -		Minh-Duc Nguyen, Viet-Tan Nguyen, Tien-Dat Nguyen, Vu-
11:05	FPGA Implementation of the Synchronization for IEEE	Thang Nguyen, and Vu-Duc Ngo (Hanoi University of Science
	802.11n WLAN systems	and Technology, Vietnam); Xuan-Nghia Nguyen (Vietnam
		Mobile Telecom Services Company, Vietnam)
11:05 -	Enhancement and FPGA Implementation of ANFIS	Truong Hoai Duy and Nguyen Van Cuong (Danang University
11:25	Algorithm in Digital Image Processing	of Technology, Vietnam)
11:25 -	Design space exploration for a single-FPGA handwritten	Thang Viet Huynh (The University of Danang, Vietnam)
11:45	digit recognition system	Thang viet hayini (The Oniversity of Danang, Vietnam)
11:45 -	High Throughput FPGA Architecture for Corner	Tung H. Dinh, Dao Q. Vu, Vu-Duc Ngo, Nam Pham Ngoc, and
12:05	Detection in Traffic Images	Vu T. Truong (Hanoi University of Science and Technology,
	Detection in traine images	Vietnam)

Lunch at Restaurant Epice

Time: 12:05 - 13:45

ES-2: Smart Sensor & Analog Devices 1

Time: 14:25 - 15:25 Room: Lotus III

Session chair: Nguyen Vu Thang (Hanoi University of Science and Technology, Vietnam)

Time	Title	Authors
14:25 - 14:45	Sub-threshold CMOS Voltage-Multipliers using Hybrid RF-Piezoelectric Energy Scavenging	Thanh Trung Nguyen and Shantanu Chakrabartty (University of Oslo, Norway); Tao Feng and Philipp Häfliger (Michigan State University, USA)
14:45 – 15:05	Optimization of Piezoelectric Energy Harvesting Systems by Using a MPPT Method	Xuan-Dien DO, Seok-Kyun Han, and Sang-Gug Lee (Korea Advanced Institute of Science and Technology, Korea)
15:05 - 15:25	A High Power Conversion Efficiency Rectifier with New Internal VTh Cancellation Topology for RFID Applications	Dat Nguyen, Toan Nguyen, Long Nguyen, and Loan Pham- Nguyen (Hanoi University of Science and Technology, Hanoi); Guillaume Thenaisie and Sang-Gug Lee (Korea Advanced Institute of Science and Technology, Korea)

Coffee Break & Poster Session 2
Time: 15:25 - 16:05 (see below for detailed poster program)

ES-3: Smart Sensor & Analog Devices 2

Time: 16:05 - 17:05 Room: Lotus III

Session chair: Loan Pham-Nguyen (Hanoi University of Science and Technology, Vietnam)

Time	Title	Authors
16:05 -	A Zero Current Detector With Low Negative Inductor	Ngan K. Hoang and Sang-Gug Lee (Korea Advanced Institute
16:25	Current Using Forced Freewheel Switch Operation In	of Science and Technology, Korea); Young-Jin Woo (Silicon
	Synchronous DC-DC Converter	Works Co. Ltd., Korea)
16:25 -	The Voltage-mode with Triple-input Single-output	Sorapong Wachirarattanapornkul, Boonchana Purahong, and
16:45	Universal Biquad Filter Using DURCs and CCCIIs	Vanvisa Chutchavong (King Mongkut's Institute of
	Offiversal Biquad Fifter Osling DONES and CCCIIS	Technology Ladkrabang, Thailand)
16:45 -		Nguyen, H. D (Hanoi University of Science and Technology,
17:05	Design of folded CCDs for Ultra High Speed Imaging	Vietnam); Dao, V. T. S and Etoh, T. G (Ritsumeikan
		University, Japan)

GALA DINER

From 18:30 - 21:00

Venue: Beach side, Pullman Beach Resort Danang

Friday, August 1st, 2014

ES-4: ASIC Design and Verification

Time: 8:45 - 10:05 Room: Lotus III

Session chair: Pham Ngoc Nam (Hanoi University of Science and Technology, Vietnam)

Session chair. I ham reservatin (transitional structures and rectiniology, victually		
Time	Title	Authors
8:45 -	MultiStage ASIC Implementation of the Mersenne	Thuy T Le (San José State University, USA); Sricharan
9:05	Twister Pseudorandom Number Generator	Narayanan (Intel Corporation, USA)
9:05 -		Duc-Hung Le (Vietnam National University Ho Chi Minh City);
9:25	Design of a Parallel CAM-based Multi-Match Search	Katsumi Inoue (Advanced Original Technologies, Japan);
	System Using 0.18-μm CMOS Process	Cong-Kha Pham (The University of Electro-Communications,
		Japan)

9:25 - 9:45	AHB-Master Controller Formal Compliance Verification	Nguyen Son Lam and Nguyen Duc Minh (Hanoi University of Science and Technology, Vietnam)
9:45 -	An open source Verilog front-end for digital design	Minh D. Nguyen, Quan V. Dang, and Lam Son Nguyen (Hanoi
10:05	analysis at word level	University of Science and Technology, Vietnam)

Coffee Break Time: 10:05 - 10:45

ES-5: Computer and Memory Systems Time: 10:45 - 12:05

Room: Lotus III

Session chair: Thuy T Le (San José State University, USA)

Time	Title	Authors	
10:45 -	Hardware Modelling of Frequency Recovery in an	Suresh Kalle and Francis M. Bui (University of Saskatchewan,	
11:05	Upstream Demodulator for DOCSIS 3.0	Canada)	
11:05 -	Mamory officient signature matching for Clam AV on	Tran Ngoc Thinh and Tran Trung Hieu (HCMC University of	
11:25	Memory-efficient signature matching for ClamAV on FPGA	Technology, Vietnam); Hiroshi Ishii and Shigenori Tomiyama	
	FPGA	(Tokai University, Japan)	
11:25 -		Tran Duc Linh and Tony de Souza-Daw (RMIT University, Ho	
11:45	Parallel Random Access Memory in a Shared Memory	Chi Minh, Vietnam); Thang Manh Hoang and Nguyen Tien	
	Architecture	Dzung (Hanoi University of Science and Technology,	
		Vietnam)	
11:45 -		Bui Anh Tuan and Anthony de Souza-Daw (RMIT University,	
12:05	Magnetic Camera for visualizing Magnetic Fields of	Ho Chi Minh, Vietnam); Hoang Minh Phuong, Thang Manh	
	Home Appliances	Hoang, and Nguyen Tien Dzung (Hanoi University of Science	
		and Technology, Vietnam)	

TRACK: MICROWAVE ENGINEERING

Thursday, July 31st, 2014

ME-1: Multi-band and Wide-band Antennas

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

Session chair: Makoto Ando (Tokyo Institute of Technology, Japan)

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Time	Title	Authors	
8:45 -	Compact Multi-band Antenna and Matching Circuit for	Thanh-Nga Mai, Anne-Claire Lepage, and Bernard Huyart	
9:05	LTE Low Frequency Bands	(Telecom ParisTech, France)	
9:05 -	Dual band hexagonal microstrip antenna loaded with	Karthikeya G. S and Dr. Hariprasad S. A (BMSIT, India);	
9:25	hexagonal and cylindrical EBG	Shravan Kaundinya (APSCE, India)	
9:25 -	Analysis and Design of Antinodal Vivaldi Antonna for	Hien Chu Ba and Hiroshi Shirai (Chuo University, Japan);	
9:45	Analysis and Design of Antipodal Vivaldi Antenna for UWB Applications	Chien Ngoc Dao (Hanoi University of Science and	
		Technology, Vietnam)	
9:45 -		Ngo Hoai Nguyen, Kieu Trung Liem, Nguyen Dinh Uyen, and	
10:05	A Small Planar Inverted-F Antenna for GSM Applications	Doan Phuong Duy (International University - Ho Chi Minh	
		City National University, Vietnam)	

Coffee Break & Poster Session 1
Time: 10:05 - 10:45 (see below for detailed poster program)

ME-2: Antennas and Propagation

Time: 10:45 - 11:45 Room: Jasmine

Session chair: Dao Ngoc Chien (Ministry of Science and Technology, Vietnam)

Time	Title	Authors
10:45 - 11:05	Design of a Parallel Plate Slot Array Antenna Fed by a Rectangular Coaxial Line	Jiro Hirokawa, Hajime Nakamichi, Makoto Sano, and Makoto Ando (Tokyo Institute of Technology, Japan); Katsumori Sasaki and Ichiro Oshima (Denki Kogyo Co., Ltd., Japan)
11:05 - 11:25	Evolutionary Algorithm for Bandstop Frequency Selective Surface	Linh Ho Manh, Marco Mussetta, and Riccardo Enrico Zich (Politecnico di Milano, Italy)
11:25 -	Diversity Property of Millimeter Wave Wireless	Hung V. Le, Takuichi Hirano, Jiro Hirokawa, and Makoto
11:45	Networks against Localized Rain	Ando (Tokyo Institute of Technology, Japan)

Lunch at Restaurant Epice

Time: 12:05 - 13:45

ME-3: Microwave Components, Subsystems and Applications

Time: 14:05 - 15:25 Room: Jasmine

Session chair: Vu Van Yem (Hanoi University Of Science and Technology, Viet Nam)

Time	Title	Authors
14:05 - 14:25	Implementation of a Mobile Instrument for Complex Permittivity Measurement of Liquids Based on Microwave Resonant Method	Anupan Phungasem, Kittipong Nuanyai, Nutdechatorn Puangngernmak, and Suramate Chalermwisutkul (King Mongkut's University of Technology North Bangkok, Thailand)
14:25 -		Tung Nguyen, Jiro Hirokawa, and Makoto Ando (Tokyo
14:45	Material Choices of Honeycomb Structures and their	Institute of Technology, Japan); Osamu Amano, Shuichi
	Effects in mm-Wave RLSAs	Koreeda, and Takaomi Matsuzaki (NEC Toshiba Space
		Systems, Japan)
14:45	Design of A 10-MHz Low Phase-Noise Oscillator Using	Tan-Loc Nguyen, Mingzheng Pan, Yuan Ling, Zhipeng Li, and
_	Second-Mode Face Shear Square Micromechanical	Jingfu Bao (University of Electronic Science and Technology
15:05	Resonator	of China, China)
15:05 -		Cao Dung Truong and Duc Han Tran (Hanoi University of
15:25	A Butterfly MMI Waveguides Based Polarization Beam	Science and Technology, Vietnam); Vu Chung Hoang
	Splitter Etched on SOI platform	(Vietnam Academy Institute of Science and Technology,
	Splitter Ettiled on 301 platfollil	Vietnam); Trung Thanh Le (Hanoi University of Natural
		Resource and Environment, Vietnam)

see below for detailed poster program)

GALA DINER

From 18:30 - 21:00

TRACK: SIGNAL PROCESSING AND APPLICATIONS

Thursday, July 31st, 2014

SPA-1: Image and video processing I

Time: 9:05 - 10:05 Room: Hibicus

Session chair: Thi-Lan Le (HUST, Vietnam)

Time	Title	Authors
9:05 -		Phong Nguyen, Hieu Tran, Hai Nguyen, Cuong Vo; Binh
9:25	Asymmetric Diamond Search Pattern for Motion	Nguyen, Vu-Duc Ngo, and Vu-Thang Nguyen (Hanoi
	Estimation in HEVC	University of Science and Technology, Vietnam, Vietnam);
	Estimation in the ve	Xuan-Nghia Nguyen (Vietnam Mobile Telecom Services
		Company, Vietnam)
9:25 -		Thai Nam Son (Vietnam National Television, Vietnam); Thang
9:45	Fast FPGA implementation of YUV based fractal image	Manh Hoang and Nguyen Tien Dzung (Hanoi University of
	compression	Science and Technology Vietnam); Nguyen Hoang Giang
		(Hanoi Open University, Vietnam)
9:45 -		Nguyen Quoc Hung, Hai Vu, and Thi-Thanh-Hai Tran (Hanoi
10:05	Mapping Services in Indoor Enviroments based on	University of Science and Technology, Vietnam); Quang-
	Image Sequences	Hoan Nguyen (Hung Yen University of Technology and
		Education, Vietnam)

<u>Coffee Break & Poster Session 1</u>
Time: 10:05 - 10:45 (see below for detailed poster program)

SPA-2: Image and video processing II

Time: 10:45 - 11:45 Room: Hibicus

Session chair: Nguyen Tien Dzung (HUST, Vietnam)

Time	Title	Authors
10:45 - 11:05	Sparsely Sampled functional Magnetic Resonance Imaging Using Low-rank and Sparsity Constraints	Hien M. Nguyen (Hanoi University of Science and Technology, Vietnam); Gary H. Glover (Stanford University, Vietnam)
11:05 - 11:25	A Proposed Adaptive Image Segmentation Method Based on Local Excitatory Global Inhibitory Region Growing	Trong-Thuc Hoang, Quang-Trung Tran, and Trong-Tu Bui (The University of Science, Ho Chi Minh City, Vietnam)
11:25 - 11:45	Triangulation of an elevation surface structured by a sparse 3D grid	Van Sinh NGUYEN (International University of HCMC, Vietnam); Alexandra BAC and Marc DANIEL (Aix-Marseille University, France)

Lunch at Restaurant Epice

Time: 12:05 - 13:45

SPA-3: Signal detection and estimation

Time: 14:05 - 15:25 Room: Hibicus

Session chair: Nguyen Minh Hien (HUST, Vietnam)

Time	Title	Authors
14:05 -	An improved noise reduction algorithm for speech	Van Binh Truong, Duc Minh Nguyen, and Quang Hieu Dang
14:25	signals using a microphone array	(Hanoi University of Science and Technology, Vietnam)
14:25 -		Duc X Tran, Tien D Nguyen, Hieu M Bui, Son T Nguyen, Hong
14:45	Dual PTZ Cameras Approach for Security Face Detection	X Hoang, Thanh C Pham, and Tony de Souza-Daw (RMIT
		Vietnam University, Ho Chi Minh City, Vietnam)
14:45	An analysis on human fall detection using skeleton from	Thi-Thanh-Hai Tran and Thi-Lan Le (Hanoi University of
_	Microsoft Kinect	Science and Technology, Vietnam); Jeremy Morel (Bordeaux
15:05	Wilcrosoft Kinect	Institute of Technology, France)
15:05 -	Abnormal event detection using multimedia	Do-Dat Tran, Thi-Lan Le, and Thi-Thanh-Hai Tran (Hanoi
15:25	information for monitoring system	University of Science and Technology, Vietnam)

Coffee Break & Poster Session 2

Time: 15:25 - 16:05 (see below for detailed poster program)

GALA DINER

From 18:30 - 21:00

SPECIAL SESSION ON CrowdSourcing and Crowdsourcing Applications

Thursday, July 31st, 2014

SS-1: CrowdSourcing and Crowdsourcing Applications

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

Session chair: Nhatvi Nguyen (Microworkers, USA)

Time	Title	Authors
8:45 -	A Context-Aware Approach to Microtasking in a Public	Shinichi Konomi, Wataru Ohno, Tomoyo Sasao, and Kenta
9:05	Transport Environment	Shoji (The University of Tokyo, Japan)
9:05 -	Cost Models of Quality Assurance in Crowdsourcing	Deniz Iren and Semih Bilgen (Middle East Technical
9:25		University, Turkey)
9:25 -	Predicting Result Quality in Crowdsourcing Using	Matthias Hirth, Sven Scheuring, Tobias Hoßfeld, Christian
9:45	Application Layer Monitoring	Schwartz, and Phuoc Tran-Gia (University of Wuerzburg,
		Germany)
9:45 -		Isabelle Hupont (Aragon Institute of Technology, Spain);
10:05	Is affective crowdsourcing reliable?	Pierre Lebreton (Berlin University of Technology, Germany);
		Toni Mäki (VTT Technical Research Centre of Finland,
		Finland); Evangelos Skodras (University of Patras, Greece);
		Matthias Hirth (University of W¨urzburg, Germany)

<u>Coffee Break & Poster Session 1</u>
Time: 10:05 - 10:45 (see below for detailed poster program)

Lunch at Restaurant Epice Time: 12:05 - 13:45

GALA DINER

From 18:30 - 21:00

SPECIAL SESSION ON Information Hiding and Security in Communications: Recent Developments

Thursday, July 31st, 2014

SS-2: Information Hiding and Security in Communications: Recent Developments

Time: 10:45 - 12:05 Room: Magnolia

Session chairs: Santo Banerjee (University Putra Malaysia, Malaysia)

Time	Title	Authors
10:45 -	Achieving Secure Chaotic Communication Using EKF-	Jia-Hong Lin and Wei-Song Lin (National Taiwan University,
11:05	Based Embedded-Keys System	Taiwan)
11:05		To Ba Lam (Duy Tan University, Vietnam); Luong Anh Tuan
-	A Novel Fuzzy Approach for Phishing Detection	Nguyen and Huu Khuong Nguyen (Ho Chi Minh City
11:25	A Nover Fuzzy Approach for Phishing Detection	University of Transport, Vietnam); Hoang Minh Nguyen
		(University of Economics and Law, Vietnam)
11:25 -	A Discounted Stochastic Game Approach to Intrusion	Hussein Moosavi and Francis Minhthang Bui (University of
11:45	Detection in Wireless Ad Hoc Networks	Saskatchewan, Canada)
11:45	On the resistance of Serpent-type 4 bit S-boxes against	Cuong Nguyen, Lai Tran, and Khoa Nguyen (Academy of
_	differential power attacks	cryptography techniques, Vietnam)
12:05	unierentiai power attacks	cryptography techniques, viethann

Lunch at Restaurant Epice

Time: 12:05 - 13:45

SS-2 (cont.): Information Hiding and Security in Communications: Recent Developments

Time: 13:45 - 15:25 Room: Magnolia

Session chairs: Prof. Francis Bui (University of Saskatchewan, Canada)

Time	Title	Authors
13:45 - 14:05	Secret key management and dynamic security coding system	Thi Huyen Trang Nguyen and Jean-Pierre Barbot (ENS Cachan, France)
14:05 -	Secret Information Transmission Scheme Using MIMO	Takuma Takimura, Hideichi Sasaoka, and Hisato Iwai
14:25	System	(Doshisha University, Japan)
14:25 -	Wireless Steganography using MIMO system	Keisuke Hokai, Hideichi Sasaoka, and Hisato Iwai (Doshisha
14:45	wheless steganography using whivio system	University, Japan)
14:45	Implementation and Evaluation of an Hyperchaos-	Abdelkader Senouci and A. Boukabou (Jijel University,
_	based PRNG	Algeria); I. Benkhaddra (Ecole Militaire Polytechnique,
15:05	baseu Prind	Algeria); K. Busawon (Newcastle upon Tyne, UK)
15:05 -		Ta Thi Kim Hue and Thang Manh Hoang (Hanoi University of
15:25	Chaos-based S-box for Lightweight Block Cipher	Science and Technology, Vietnam); Dat Tran (University of
		Canberra, Vietnam)

Coffee Break & Poster Session 2

Time: 15:25 - 16:05 (see below for detailed poster program)

GALA DINER

From 18:30 - 21:00

POSTER SESSIONS:

Thursday, July 31 st , 2014 Poster Session 1		
	A Novel Quad Band Slot Antenna for GSM, LTE and WLAN applications	Shravan Kaundinya (APSCE, India); Karthikeya G.S, and Dr. Hariprasad S.A. (BMSIT, India)
	Secret Key Capacity of Secret Key Agreement Scheme Using Multiple Antennas	Naoki Iwamoto, Hideichi Sasaoka, and Hisato Iwai (Doshisha University, Japan)
	Dynamic Almost Blank Subframe Scheme for Enhanced Intercell Interference Coordination in LTE-A Heterogeneous Networks	A. Daeinabi and K. Sandrasegaran (University of Technology Sydney, Australia)
	An Improvement of the Lp-Norm Method to Model Acoustic Shallow Water Channels	Xuan Thang Nguyen, Xuan Bach Tran, and Van Duc Nguyen (Hanoi University of Science and Technology, Vietnam)
	A Novel Channel Estimation Method for IEEE 802.11p	Chunfan Wei and David W. Lin (National Chiao Tung University, Taiwan)
	Numerical Calculation of Achievable Rates for Cognitive Radio with Dynamic Frequency Hopping Under Imperfect Spectrum Sensing	Duc-Anh Le, Hung V. Vu, and Nghi H. Tran (University of Akron, USA); Trung Q. Duong (Queen's University of Belfast, UK); Duy Ngo (The University of Newcastle, Australia)
	Multicell Transmission over Multiple Access Channel: Precoding and Postcoding	Vien Nguyen-Duy-Nhat, Chien Tang-Tan, and Quang Le (Danang University of Science and Technology, Vietnam); Hung Nguyen-Le (The University of Danang, Vietnam)
10:05 - 10:45	Performance of IEEE 802.15.8 Peer Aware Communications	Hyungsik Han, Woowan Wang, Jinwoo Kim, and Hyuncheol Park (Korea Advanced Institute of Science and Technolog, Korea); Hyungjin Kim and Sung Cheol Chang (Electronics and Telecommunications Research Institute, Korea)
	A Modified Multiple Modulus Algorithm for Blind Channel Equalization of High Order QAM Signals	Huy-Dung Han (Hanoi University of Science and Technology, Vietnam)
	A Low Cost GPS Tracking System for Marine Monitoring, Search and Rescue (MSnR) Using Dual Tone Multi- Frequency (DTMF) for Analog Radio	Kieu Trung Liem, Nguyen Dinh Uyen, Doan Phuong Duy, and Ngo Hoai Nguyen (International University – Ho Chi Minh National University, Vietnam)
	Peer list sharing by router collaboration for P2PTV traffic localization	Hiep Hoang-Van and Takumi Miyoshi (Shibaura Institute of Technology, Japan); Olivier Fourmaux (UPMC Sorbonne Universites, France)
	Virtual Application Layer for Policy Management in Programmable Networks using NFV	Van-Giang Nguyen and Younghan Kim (Soongsil University, Korea)
	Security Analysis of Software Defined Networking Protocols—OpenFlow, OF-Config and OVSDB	Markus Brandt (TU Darmstadt, Germany); Rahamatullah Khondoker, Ronald Marx, and Kpatcha Bayarou (Fraunhofer Institute for Secure Information Technology, Germany)
	Performance Evaluation of Local Fast Failover on OpenFlow Switch	Kien Nguyen (National Institute of Information and Communication Technology, Japan); Hoang Tran-Viet and Toan Nguyen-Duc (Hanoi University of Science and Technology, Vietnam); Quang Tran Minh and Shigeki Yamada (National Institute of Informatics, Japan)
Poster Se		
Time	Title Wide Bandwdith Vialess Composite Right/Left Hand Antennas in the UHF Band	Authors Binh Pham, Jia-Chi Samuel Chieh, and Anh-Vu Pham (University of California Davis, USA)
	Antennas III the Offi Bana	
	Non-Geostationary Satellite Tracking Antenna by means of Fuzzy Logic High Precision Control	Minh Quan Duong, Francesco Grimaccia, Marco Mussetta, and Riccardo Zich (Politecnico di Milano, Italy); Kim Hung Le (University of Science and Technology, Vietnam)
		Minh Quan Duong, Francesco Grimaccia, Marco Mussetta, and Riccardo Zich (Politecnico di Milano, Italy); Kim Hung Le
15:25-	of Fuzzy Logic High Precision Control Radiation Characteristics of a Wearable Antenna with	Minh Quan Duong, Francesco Grimaccia, Marco Mussetta, and Riccardo Zich (Politecnico di Milano, Italy); Kim Hung Le (University of Science and Technology, Vietnam) Tien Manh Nguyen and Jae-Young Chung (Seoul National University of Science and Technology, Korea) V.Chutchavong, S.Poungpayom, and O. Sangaroon (King Mongkut's Institute of Technology Ladkrabang, Thailand); K. Janchitrapongvej (Southeast Bangkok College, Thailand)
15:25- 16:05	of Fuzzy Logic High Precision Control Radiation Characteristics of a Wearable Antenna with Woven Fiber Structure Design of Video Equalizer for Chrominance Delay Distortions by using Hurwitz Polynomials and Linear	Minh Quan Duong, Francesco Grimaccia, Marco Mussetta, and Riccardo Zich (Politecnico di Milano, Italy); Kim Hung Le (University of Science and Technology, Vietnam) Tien Manh Nguyen and Jae-Young Chung (Seoul National University of Science and Technology, Korea) V.Chutchavong, S.Poungpayom, and O. Sangaroon (King Mongkut's Institute of Technology Ladkrabang, Thailand); K. Janchitrapongvej (Southeast Bangkok College, Thailand) Le Thi Thu Nga, Nguyen Tan Khoi (University of Science and Technology, Vietnam); Nguyen Thanh Thuy (HaNoi National University)
H	of Fuzzy Logic High Precision Control Radiation Characteristics of a Wearable Antenna with Woven Fiber Structure Design of Video Equalizer for Chrominance Delay Distortions by using Hurwitz Polynomials and Linear Phase Approximation Technique Reconstruction of parametric surfaces using inverse	Minh Quan Duong, Francesco Grimaccia, Marco Mussetta, and Riccardo Zich (Politecnico di Milano, Italy); Kim Hung Le (University of Science and Technology, Vietnam) Tien Manh Nguyen and Jae-Young Chung (Seoul National University of Science and Technology, Korea) V.Chutchavong, S.Poungpayom, and O. Sangaroon (King Mongkut's Institute of Technology Ladkrabang, Thailand); K. Janchitrapongvej (Southeast Bangkok College, Thailand) Le Thi Thu Nga, Nguyen Tan Khoi (University of Science and Technology, Vietnam); Nguyen Thanh Thuy (HaNoi National
H	of Fuzzy Logic High Precision Control Radiation Characteristics of a Wearable Antenna with Woven Fiber Structure Design of Video Equalizer for Chrominance Delay Distortions by using Hurwitz Polynomials and Linear Phase Approximation Technique Reconstruction of parametric surfaces using inverse Doo-Sabin subdivision scheme A Method for Efficient Environment Modeling in	Minh Quan Duong, Francesco Grimaccia, Marco Mussetta, and Riccardo Zich (Politecnico di Milano, Italy); Kim Hung Le (University of Science and Technology, Vietnam) Tien Manh Nguyen and Jae-Young Chung (Seoul National University of Science and Technology, Korea) V.Chutchavong, S.Poungpayom, and O. Sangaroon (King Mongkut's Institute of Technology Ladkrabang, Thailand); K. Janchitrapongvej (Southeast Bangkok College, Thailand) Le Thi Thu Nga, Nguyen Tan Khoi (University of Science and Technology, Vietnam); Nguyen Thanh Thuy (HaNoi National University) Dinh-Van Nguyen, Trung-Kien Dao, Eric Castelli, and Hung-Long Nguyen (Hanoi University of Science and Technology,

Backward Matrix Pencil Method	Hoang Duc Thang (Hanoi University of Science and
	Technology, Vietnam)
	Nguyen V.H., Mahowald J., and Maas S. (University of
A signal processing method to remove environmental	Luxembourg, Luxembourg); Golinval JC. (University of Liege,
effects for damage detection in bridge structures	Belgium)
Three-electrode capacitive sensor for air-bubble inside fluidic flow detection	Nguyen Dac Hai and Tran Thi Thuy Ha (Posts and
	Telecommunications Institute of Technology, Hanoi,
	Vietnam); Vu Quoc Tuan, Pham Quoc Thinh, and Chu Duc
	Trinh (University of Engineering and Technology-National
	University, Hanoi, Vietnam)
Analysis of Stakeholder Concerns for Vehicle Navigation	Xiaoying Kong, Li Liu, and Kumbesan Sandrasegaran
System Architecture Solution	(University of Technology, Australia); Tich Phuoc Tran
System Architecture Solution	(Victoria University, Sydney, Australia)
	Takumu Yomogita, Koichiro Ishibashi, and Cong-Kha Pham
A Circuit Structure for MOS Only R-2R Ladder DAC	(The University of Electro-Communications, Japan); Nobuyuki
Having Higher Linearity	Sugii and Shiro Kamohara (Low-power Electronics Association
	& Project (LEAP), Tsukuba, Japan, Japan);
Current Mode All-pass Filter using CDTA and Uniform	Attiya Khwanphrai, Supachai Klungtong, Virote Pirajnanchai,
Distributed RC	and Paitoon Rakluea (Faculty of Engineering, Rajamangala
Distributed Ne	University of Technology Thanyaburi, Thailand)
A Digital Fast Soft-Start Control Method In DC-DC	Ngan K. Hoang and Sang-Gug Lee (KAIST, Korea); Young-Jin
Converter For Smart Sensor Applications	Woo (Silicon Works Co. Ltd., Korea)
Home Energy Management System using IPv6 IEEE1888	Duong Hoang Le, Pongpot Chaiboonruang, and Wanchalerm
Networking	Pora (Chulalongkorn University, Thailand)

EXHIBITIONS:

An exhibtions will be available during 3 days of the conference.

Agilent

Free-space techniques using a network analyzer for measuring dielectric and magnetic properties of materials in the microwave to mm-wave frequency range will be discussed. These measurements are often used for design and test of radome, low observables, and absorbing materials, but this non-contacting technique is useful for other materials as well. A featured topic will be Gated Reflect Line calibration, an innovative calibration technique developed by Agilent.