

Final Technical Program

The Fourth International Conference on Communications and Electronics 2012

CONFERENCE AT A GLANCE

- Number of submitted papers	237
- Number of full accepted papers	98
- Number of poster papers	33
- Full acceptance rate	41,35%
- Number of countries	29

PROGRAM AT A GLANCE

<i>Wednesday, August 1st, 2012</i>				
09:00– 09:30	Opening Ceremony: <ul style="list-style-type: none"> – Speech of General Co-Chairs: Prof. Nguyen Xuan Quynh, Prof. Jinwoo Park – Conference introduction: Prof. Phuoc Tran-Gia 			
09:30 – 10:00	Keynote 1: <i>"Development of nursing-care assistant robot RIBA"</i> , by Prof. Shigeyuki, RIKEN-TRI Collaboration Center for Human-Interactive Robot Research, RIKEN, Japan			
10:00 – 10:30	Coffee Break			
10:30 – 11:00	Keynote 2: <i>"Green Networking"</i> , by Prof. Rod Tucker, Centre for Energy-Efficient Telecommunications (CEET), Department of Electrical and Electronic Engineering, University of Melbourne, Australia			
11:00 – 11:30	Keynote 3: <i>"5G Mobile Infrastructure: Innovation for Unlimited Bandwidth"</i> , by Prof. Chung G. Kang, Korea University			
11:30 – 12:00	Keynote 4: <i>"A changing paradigm for the ICT research in the emerging challenges"</i> by Prof. Rodolfo Zich, Torino Wireless Foundation, Italy			
12:00 –13:30	Lunch			
	<i>Room: Banquet</i>	<i>Room: Le Royal</i>	<i>Room: Le Cinema A</i>	<i>Room: Le Cinema B</i>
13:30 – 15:30	Tutorial 1: <i>"Green Networking - A Tutorial"</i> , by Franco Davoli, DIST-University of Genoa, Italy	Tutorial 2: <i>"Quantitative discrete-event computer simulation as a credible paradigm of scientific investigations"</i> , by Krzysztof Pawlikowski, University of Canterbury, Christchurch, New Zealand	Tutorial 3: <i>"Principles and applications of nano-spin semiconductor lasers"</i> , by Professor K Alan Shore, Bangor University, UK	Tutorial 4: <i>"Wireless Mesh Networks"</i> , by Ulf Körner, Lund University, Sweden

15:30 – 16:00	Coffee Break					
16:00 – 18:00	Tutorial 1 (continued): "Green Networking - A Tutorial", by Franco Davoli, DIST-University of Genoa, Italy	Tutorial 2 (continued): "Quantitative discrete-event computer simulation as a credible paradigm of scientific investigations", by Krzysztof Pawlikowski, University of Canterbury, Christchurch, New Zealand				
Thursday, August 2nd						
8:45 – 10:05	CN-1: Optical Networks <i>Room: Le Cinema A</i>	ES-1: VLSI <i>Room: Le Royal</i>	ME-1: Electromagnetism <i>Room: Le Cinema B</i>	SPA-1: Imaging systems and display <i>Room: Banquet</i>	SS-1: Energy-Efficient networking <i>Room: La Róse</i>	
10:05 – 10:45	Coffee Break & Poster Session 1 – Communication Networks and Systems					
10:45 – 12:05	CN-2: Optical Networks <i>Room: Le Cinema A</i>	ES-2: Memory Architecture <i>Room: Le Royal</i>	ME-2: Electromagnetism <i>Room: Le Cinema B</i>	SPA-2: Imaging systems and display <i>Room: Banquet</i>	SS-2: Energy-Efficient networking <i>Room: La Róse</i>	
12:05 – 13:45	Lunch					
13:45 – 15:25	Unifi Workshop <i>Room: La Panorama</i>	CS-5: Optical Communications <i>Room: Le Cinema A</i>	ES-3: Design and Verification Methods <i>Room: Le Royal</i>	ME-3: Antennas <i>Room: Le Cinema B</i>	SPA-3: Imaging systems and display <i>Room: Banquet</i>	SS-3: Satellite Navigation Technology <i>Room: La Róse</i>
15:25 – 16:05	Coffee Break & Poster Session 2 - Satellite Navigation Technology and Signal Processing & Applications					
16:05 – 17:45	Unifi Workshop <i>Room: La Panorama</i>	CN-3: Wireless Sensor and Adhoc Networks <i>Room: Le Cinema A</i>	CN-6: QoS control and Performance Enhancement Mechanisms <i>Room: Le Royal</i>	CS-1: Space-Time Signal Processing <i>Room: Le Cinema B</i>	SPA-4: Signal and Image Enhancement <i>Room: Banquet</i>	SS-4: Satellite Navigation Technology <i>Room: La Róse</i>

Friday, August 3rd						
8:45 – 10:05	CN-4: Wireless Sensor and Adhoc	CS-2: Channel estimation and	CS-3: Advanced modulation and	ES-4: Applications <i>Room: Le Royal</i>	Unifi Workshop <i>Room: La Róse</i>	

	<p>Networks <i>Room: Le Cinema A</i></p>	<p>interference cancellation <i>Room: Le Cinema B</i></p>	<p>coding schemes <i>Room: Banquet</i></p>		
<p>10:05 – 10:45</p>	<p>Coffee Break & Poster Session 3 – Electronic Systems and Microwave Engineering</p>				
<p>10:45 – 12:05</p>	<p>CN-5: Overlay and Applications <i>Room: Le Cinema A</i></p>	<p>CS-4: Other Topics in Wireless Communications <i>Room: Le Cinema B</i></p>	<p>Unifi Workshop <i>Room: La Rose</i></p>		

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, August 1st, 2012				
Time	ICCE 2012 Agenda			
8:30 – 9:10	Registration			
Opening Time: 09:00 – 09:30 Room: Le Cinema				
9:00– 9:30	<ul style="list-style-type: none"> - Opening ceremony - Speech of General Co-Chairs : Prof. Nguyen Xuan Quynh, Prof. Jinwoo Park – Korea University - Conference introduction: Prof. Phuoc Tran-Gia – University of Wuerzburg 			
Keynote Session Time: 09:30 – 12:00 Room: Le Cinema Session Chair: Randy Giles (Bell Labs Seoul, Korea)				
9:30 – 10:00	Keynote Session: <ul style="list-style-type: none"> - Keynote 1: "Development of nursing-care assistant robot RIBA", Prof. Shigeyuki Hosoe (RIKEN-TRI Collaboration Center for Human-Interactive Robot Research, RIKEN, Japan). 			
10:00– 10:30	Coffee Break			
10:30– 11:00	Keynote 2: " <i>Green Networking</i> ", by Prof. Rod Tucker, Centre for Energy-Efficient Telecommunications (CEET), Department of Electrical and Electronic Engineering, University of Melbourne, Australia			
11:00– 11:30	Keynote 3: " <i>5G Mobile Infrastructure: Innovation for Unlimited Bandwidth</i> ", by Prof. Chung G. Kang, Korea University			
11:30– 12:00	Keynote 4: " <i>A changing paradigm for the ICT research in the emerging challenges</i> " by Prof. Rodolfo Zich, Torino Wireless Foundation, Italy			
12:00– 13:30	Lunch			
13:30– 15:30	<i>Room: Banquet</i>	<i>Room: Le Royal</i>	<i>Room: Le Cinema A</i>	<i>Room: Le Cinema B</i>
	Tutorial 1: " <i>Green Networking - A Tutorial</i> ", By Franco Davoli, DIST-University of Genoa, Italy	Tutorial 2: " <i>Quantitative discrete-event computer simulation as a credible paradigm of scientific investigations</i> ", By Krzysztof Pawlikowski, University of Canterbury, Christchurch, New Zealand.	Tutorial 3: " <i>Principles and applications of nano-spin semiconductor lasers</i> ", By Professor K Alan Shore , University of Bangor, UK.	Tutorial 4: " <i>Wireless Mesh Networks</i> ", by Ulf Körner, Lund University, Sweden
15:30– 16:00	Coffee Break			
16:00– 18:00	Tutorial 1 (cont...): " <i>Green Networking - A Tutorial</i> ", By Franco Davoli, DIST-University of Genoa, Italy	Tutorial 2 (cont...): " <i>Quantitative discrete-event computer simulation as a credible paradigm of scientific investigations</i> ", By	Tutorial 3 (cont...): " <i>Principles and applications of nano-spin semiconductor lasers</i> ", By Professor K Alan Shore , University	

		Krzysztof Pawlikowski, University of Canterbury, Christchurch, New Zealand.	of Bangor, UK.	
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Thursday, August 2nd, 2012

ORAL SESSIONS

Track: Communication Networks and Systems

CN-1: Optical Networks

Time: 8:45 - 10:05

Room: Le Cinema A

Session chair: Hoa Le Minh (Northumbria University, United Kingdom)

Time	Title	Authors
8:45 - 9:05	Invited Paper: <i>Design of Survivable IP-over-WDM Networks</i>	Brigitte Jaumard (Concordia University, Canada); Hai Anh Hoang (Concordia University, Canada)
9:05 - 9:25	<i>A Local Improvement Approach for Survivable Long-reach Hybrid WDM-TDM PON Design</i>	Dieu Linh Truong (HUST, Vietnam); Phan Thuan Do (Hanoi University of Science and Technology, Vietnam); Anh T. Pham (The University of Aizu, Japan)
9:25 - 9:45	<i>Impact of Optical Transparent Reach on the Performance of Translucent Multi-granular Optical Path Networks</i>	Hai Chau Le (Nagoya University, Japan); Hiroshi Hasegawa (Nagoya University, Japan); Ken-Ichi Sato (Nagoya University, Japan)
9:45 - 10:05	<i>p-Cycle Based Protection Mechanisms in Multi-Domain Optical Networks</i>	Brigitte Jaumard (Concordia University, Canada); Kien Do Trung (Universite de Montreal, Canada); Michel Toulouse (Oklahoma State University, USA); Hai Anh Hoang (Concordia University, Canada)

SS-1: Special Session on ENERGY-EFFICIENT NETWORKING

Time: 8:45 - 9:45

Room: La Róse (Note: moved from La Panorama)

Session chair: Marco Ajmone Marsan (Politecnico di Torino, Italy)

Time	Title	Authors
8:45 - 9:05	<i>Modeling and Performance Analysis of User Equipment with Sleep Modes and Activation Overhead</i>	Paul J. Kühn (University of Stuttgart, Germany)
9:05 - 9:25	<i>On formulation of a network energy saving optimization problem</i>	Piotr Arabas (Research and Academic Computer Network NASK & Warsaw University of Technology, Poland); Krzysztof Malinowski (Warsaw University of Technology, Poland); Andrzej Sikora (Warsaw University of Technology, Poland)
9:25 - 9:45	<i>Evaluating the Trade-off Between Energy Efficiency and QoE in Wireless Mesh Networks</i>	David Hock (University of Wuerzburg, Germany); Vitor Bernardo (University of Coimbra, Portugal); Thomas Zinner (University of Wuerzburg, Germany); Florian Wamser (University of Wuerzburg, Germany); Karin Anna Hummel (ETH Zurich, Switzerland); Marilia Curado (University of Coimbra, Portugal); Rastin Pries (University of Wuerzburg, Germany); Torsten Ingo Braun (University of Bern, Switzerland); Phuoc Tran-Gia (University of Wuerzburg, Germany)

Coffee Break & Poster Session 1 - Communication Networks and Systems

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

CN-2: Optical Networks (cont.)

Time: 10:45 - 12:05

Room: Le Cinema A

Session chair: Lim Nguyen (University of Nebraska-Lincoln, USA)

Time	Title	Authors
10:45 - 11:05	<i>A Novel Scheme of Optical Code-based Header Processing for OBS Networks using JIT Signaling</i>	Ngoc Dang (Posts and Telecommunications Institute of Technology, Vietnam); Vuong Mai (Posts and Telecommunications Institute of Technology, Vietnam); Hien Pham (Posts and Telecommunications Institute of Technology, Vietnam); Anh T. Pham (The University of Aizu, Japan)
11:05 - 11:25	<i>Outdoor Visible Light Communication For Inter-Vehicle Communication Using Controller Area Network</i>	Deok-Rae Kim (Yonsei University, Korea); Se-Hoon Yang (Yonsei University, Korea); Hyun-Seung Kim (Yonsei University, Korea); Yong-Hwan Son (Yonsei University, Korea); Han Sang-Kook (Yonsei university, Seoul, Korea)
11:25 - 11:45	<i>Novel LED's Driver Circuit for Broadband Short-Range Optical Fiber Communication Systems</i>	Phi Binh (VAST, Vietnam); Duc Trong Vo (IMS, VAST, Vietnam); Tuan Anh Chu (IMS, VAST, Vietnam); Renucci Pierre (INSA, University of Toulouse, France); Marie Xavier (INSA, University of Toulouse, France); Cong Thang Truong (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan)
11:45 - 12:05	<i>Reducing Link Switching Delay in LED-ID Network based on Location Information of Mobile Device</i>	Tuan Nguyen (Kookmin University, Korea); Mostafa Zaman Chowdhury (Kookmin University, Korea); Yeong Min Jang (Kookmin University, Korea); Nguyen Huu Thanh (Hanoi University of Science and Technology, Vietnam)

SS-2: Special Session on ENERGY-EFFICIENT NETWORKING (cont.)

Time: 10:45 - 11:45

Room: La Róse (Note: moved from La Panorama)

Session chair: Paul Kuehn (University of Stuttgart, Germany)

Time	Title	Authors
10:45 - 11:05	<i>Enabling Experiments for Energy-Efficient Data Center Networks on OpenFlow-based Platform</i>	Nguyen Huu Thanh (Hanoi University of Science and Technology, Vietnam); Pham Nam (HUST, Vietnam); Huong Thu Truong (Hanoi University of Science and Technology, Vietnam); Nguyen Tai Hung (Hanoi University of Science and Technology, Vietnam); Rastin Pries (University of Wuerzburg, Germany)
11:05 - 11:25	<i>Multiple Daily Base Station Switch-Offs in Cellular Networks</i>	Marco G Ajmone Marsan (Politecnico di Torino & IMDEA Networks, Italy); Luca Chiaraviglio (Politecnico di Torino, Italy); Delia Ciullo (INRIA Sophia Antipolis, France); Michela Meo (Politecnico di Torino, Italy)
11:25 - 11:45	<i>A Steady-State Model for Energy-Efficient Packet Processing Engines Under Mixed Traffic</i>	Raffaele Bolla (University of Genoa, Italy); Roberto Bruschi (CNIT, Italy); Franco R Davoli (University of Genoa, Italy)

12:05 - 13:45 Lunch

CS-5: Optical Communications

Time: 13:45 - 15:25

Room: Le Cinema A

Session chair: Ngoc Dang (PTIT, Vietnam)

Time	Title	Authors
13:45 - 14:05	<i>Frequency Dependence of Negative Capacitance in Light-Emitting Devices</i>	Duc Trong Vo (IMS, VAST, Vietnam); Tuan Anh Chu (IMS, VAST, Vietnam); Phi Binh (VAST, Vietnam); Cong Thang Truong (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan)
14:05 - 14:25	<i>Performance Analysis for 180-degree Receiver in Visible Light Communications</i>	Andrew Burton (Northumbria University & Northumbria University, United Kingdom); <u>Ho Le Minh</u> (Northumbria University, United Kingdom); Zabih Ghassemlooy (Northumbria University, United Kingdom); Sujan Rajbhandari (Northumbria University, United Kingdom); Paul Anthony Haigh (Northumbria University, United Kingdom)
14:25 - 14:45	<i>Self-Heterodyne Optical Transceiver with PM Detection and Phase Compensation for Pre-coded Differential QAM</i>	Tam Huynh (Dublin City University, Ireland); <u>Lim Nguyen</u> (University of Nebraska-Lincoln, USA); Liam Barry (Dublin City University, Ireland)
14:45 - 15:05	<i>A New Laser Control Algorithm for Inter-channel Crosstalk Reduction in Injection Seeded WDM-PON</i>	Junkye Bae (LG-Ericsson, Korea); Yunho Nam (LG-Ericsson, Korea); Kyuhyeon Jeong (LG-Ericsson, Korea); Heeyeal Rhy (LG-Ericsson, Korea); Gwangyong Yi (LG-Ericsson, Korea)
15:05 - 15:25	<i>Improving Opto-Electronic Oscillator Stability by Controlling the Electro-Optic Modulator</i>	Bui Thanh (Hanoi University of Science and Technology, Vietnam); Toan Thang Pham (ENS Cachan, France); Van Yem Vu (Hanoi University Of Science and Technology & School of Electronics and Telecommunications, Vietnam); Bernard Journet (ENS de Cachan, France)

SS-3: Special Session on SATELLITE NAVIGATION TECHNOLOGY

Time: 13:45 - 15:05

Room: La Róse (Note: moved from La Panorama)

Session chair: Letizia Lo Presti (Politecnico di Torino, Italy)

Time	Title	Authors
13:45 - 14:05	Invited Talk: <i>Dealing with GNSS Interference (Jamming)</i>	Andrew Dempster (University of New South Wales)
14:05 - 14:25	<i>Performance Evaluation of a Self Calibrated 3D Wi-Fi Fingerprinting Positioning System</i>	François Spies (University of Franche Comte, France); Matteo Cypriani (University of Franche-Comte, France); Philippe H Canalda (Université de Franche-Comté & Femto-st Institute UMR 6174, France)
14:25 - 14:45	<i>Wi-Fi Access Point Placement within Stand-alone, Hybrid and Combined Wireless Positioning Systems</i>	Soumaya Zirari (University of Franche-Comte, France); Philippe H Canalda (Université de Franche-Comté & Femto-st Institute UMR 6174, France); François Spies (University of Franche Comte, France); Hakim Mabed (University of Franche-Comte, France)
14:45 - 15:05	<i>Performance of Self-Encoded Spread Spectrum with Iterative Detection for GNSS Applications</i>	Austin Steiner (University of Nebraska - Lincoln, USA); <u>Lim Nguyen</u> (University of Nebraska-Lincoln, USA); Won Mee Jang (University of Nebraska-Lincoln, USA)

Coffee Break & Joint Poster Session 2 - Satellite Navigation Technology and Signal

Processing & Applications

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

CN-3: Wireless Sensor and Adhoc Networks

Time: 16:05 - 17:25

Room: Le Cinema A

Session chair: Dinh Thi Thuy Nga (Bell Labs Seoul, Korea)

16:05 - 16:25	<i>A Network Monitoring System in 6LoWPAN Networks</i>	YoungKi Park (Soongsil University, Korea); younghan Kim (Soongsil University, Korea); Ngoc-Thanh Dinh (SoongSil University, Vietnam)
16:25 - 16:45	<i>Multi-hop Reed-Solomon Encoding Scheme for Image Transmission on Wireless Sensor Networks</i>	Phat Nguyen Huu (Shibaura Institute of Technology, Japan); Vinh Tran-Quang (Hanoi University of Science and Technology & Shibaura Institute of Technology, Vietnam); Takumi Miyoshi (Shibaura Institute of Technology, Japan)
16:45 - 17:05	<i>Multisensor Data Fusion for Water Quality Monitoring Using Wireless Sensor Networks</i>	Ebrahim Karami (University of Oulu, Finland); Francis M. Bui (University of Saskatchewan, Canada); Ha Nguyen (University of Saskatchewan, Canada)
17:05 - 17:25	<i>Acceleration Sensor-based Security System for Orchards</i>	Kimio Oguchi (Seikei University, Japan); Shuji Yamashita (Seikei University, Japan); Shuhei Terada (Seikei University, Japan); Dai Hanawa (Seikei University, Japan)

CN-6: QoS Control and Performance Enhancement Mechanisms

Time: 16:05 - 17:05

Room: Le Royal

Session chair: Krzysztof Pawlikowski (University of Canterbury, New Zealand)

Time	Title	Authors
16:05 - 16:25	<i>Priority and Admission Control for Assuring Quality of I2V Emergency Services in VANETs integrated with Wireless LAN Mesh Networks</i>	Tuan Do Trong (Hanoi University of Science and Technology, Vietnam); Shiro Sakata (Chiba University, Japan); Nobuyoshi Komuro (Chiba University, Japan)
16:25 - 16:45	<i>Dynamic Downlink and Uplink Subframe Boundary Adjustment for Capacity Improvement and QoS Support in Mobile WiMAX</i>	Tri Nguyen (Korea University, Korea); Jinwoo Park (Korea University, Korea)
16:45 - 17:05	<i>Handover Decision Algorithm Based on Available Data Volume in Hierarchical Macro/Femto-cell Networks</i>	Jae-In Choi (Kyungpook National University, Korea); Won-Kyeong Seo (Kyungpook National University, Korea); Jae-Choong Nam (Kyungpook National University, Korea); In-Soo Park (Kyungpook National University, Korea); You-Ze Cho (Kyungpook National University, Korea)

CS-1: Space-Time Signal Processing

Time: 16:05 - 17:45

Room: Le Cinema B

Session chair: Duong Quang Trung (BTH, Sweden)

Time	Title	Authors
16:05 - 16:25	<i>Performance Analysis of TAS/SC-Based MIMO Decode-and-Forward Relaying for Multi-hop Transmission over</i>	Bao Quoc Vo Nguyen (Posts and Telecommunications Institute of Technology, Vietnam); Lan Phuong Bui (International

	<i>Rayleigh Fading Channels</i>	University, VNU HCMC., Vietnam); Thien Thanh Tran (Ho Chi Minh City University of Transport, Vietnam)
16:25 - 16:45	<i>Spectral Optimization for Beamforming Problem in Wireless MIMO Relaying</i>	Anh Huy Phan (University of New South Wales, Australia); Hoang D. Tuan (University of Technology, Sydney, Australia); Ha H Kha (University of Technology Sydney, Australia)
16:45 - 17:05	<i>Wireless Relay Networks with Alamouti Space-Time Code and M-FSK Modulation</i>	Ha X. Nguyen (Tan Tao University, Vietnam); Ha Nguyen (University of Saskatchewan, Canada); Tho Le-Ngoc (McGill University, Canada)
17:05 - 17:25	<i>Near Optimal MLD Receiver for Multiple Input Multiple Output Systems</i>	<u>Sangho Nam</u> (LG-ERICSSON, Korea)
17:25 - 17:45	<i>Radar Imaging: Conventional and MIMO</i>	<u>Gerard Rankin</u> (University of Adelaide, Australia); Andrew Z Tirkel (Scientific Technology, Australia); Long Bui (Honeywell, USA); Nick Le Marshall (University of New South Wales (Australian Defence Force Academy), Australia)
<p><u>SS-4: Special Session on SATELLITE NAVIGATION TECHNOLOGY (cont.)</u> Time: 16:05 - 17:05 Room: La Róse (Note: moved from La Panorama) Session chair: Andrew Dempster (University of New South Wales, Australia)</p>		
Time	Title	Authors
16:05 - 16:25	Invited Talk: <i>Growing NAVIS: an opportunity to strengthen European Union / South-East Asia cooperation on satellite navigation</i>	Gabriella Povero (Istituto Superiore Mario Boella, Italy)
16:25 - 16:45	<i>Plasmaspheric Electron Content contribution inferred from ground and radio occultation derived Total Electron Content</i>	Angela Aragon Angel (Technical University of Catalonia, Spain); <u>Jaume Sanz</u> (gAGE/UPC, Spain); José Miguel Juan Zornoza (gAGE/UPC, Spain); Manuel Hernández Pajares (gAGE/UPC, Spain); David Altadill (Observatorio del Ebro, Spain)
16:45 - 17:05	<i>Study of Positioning Methods in DVB-T Single Frequency Networks</i>	Jie Huang (Politecnico di Torino, Italy); Letizia Lo Presti (Politecnico di Torino, Italy); Roberto Garello (Politecnico di Torino, Italy); Bruno Sacco (RAI Research & Technology Innovation Center, Italy)

Track: Electronic Systems

ES-1: VLSI

Time: 8:45 - 10:05

Room: Le Royal

Session chair: Luc Claesen (Hasselt University, Belgium)

Time	Title	Authors
8:45 - 9:05	<i>Single MCCCCTA-Based Mixed-Mode Third-Order Quadrature Oscillator</i>	Montree Kumngern (King Mongkut's Institute of Technology Ladkrabang, Thailand)
9:05 - 9:25	<i>One-Input Five-Output Voltage-Mode Universal Biquadratic Filter Using Single-Ended OTAs</i>	Montree Kumngern (King Mongkut's Institute of Technology Ladkrabang, Thailand)

9:25 - 9:45	<i>Parameter extraction and optimization using Levenberg-Marquardt algorithm</i>	Duc-Hung Le (The University of Electro-Communications Tokyo, Japan); Pham Cong-Kha (The University of Electro-Communication, Japan); <u>Nguyen Thi Thien Trang</u> (University of Science Ho Chi Minh City, Vietnam); Bui Trong Tu (University of Science Ho Chi Minh City, Vietnam)
9:45 – 10:05	<i>Toward 1 Gfps: A Multi-Collection-Gate BSI Imager</i>	Nguyen Hoang Dung (Kinki University, Japan); Dao Vu Truong Son (Kinki University, Japan); Tetsuo Yamada (Kinki University, Japan); Takeharu Etoh (Kinki University, Japan)
<p><u>Coffee Break & Poster Session 1 - Communication Networks and Systems</u> Time: 10:05 - 10:45 (see below for detailed poster program)</p>		
<p><u>ES-2: Memory Architecture</u> Time: 10:45 - 11:45 Room: Le Royal Session chair: Nguyen Van Tam (Telecom ParisTech, France)</p>		
Time	Title	Authors
10:45 - 11:05	<i>A Low Cost EEPROM Design for Passive RFID Tags</i>	Andrey Nuykin (Molecular Electronics Research Institute (MERI), Russia); Alexander Kravtsov (JSC Mikron, Russia); Sergey Timoshin (JSC Mikron, Russia); Igor Zubov (JSC MIKron, Russia)
11:05 - 11:25	<i>A Fully-Parallel Information Detection Hardware System Employing Content Addressable Memory</i>	<u>Duc-Hung Le</u> (The University of Electro-Communications Tokyo, Japan); Masahiro Sowa (University of Electro-Communications, Japan); Pham Cong-Kha (The University of Electro-Communication, Japan); Katsumi Inoue (Advanced Original Technologies, Japan)
11:25 - 11:45	<i>DDR2/DDR3-based Ultra-Rapid Reconfiguration Controller</i>	Hung-Manh Pham (CAIRN/IRISA, Vietnam); Van-Cuong Nguyen (DANANG University of Technology, Vietnam); Trong-Tuan Nguyen (Acronics, Vietnam)
12:05 - 13:45 Lunch		

ES-3: Design and Verification Methods

Time: 13:45 - 15:05

Room: Le Royal

Session chair: Dominik Stoffel (University of Kaiserslautern, Germany)

Time	Title	Authors
13:45 - 14:05	<i>Invited talk: System-level models for System-on-Chip implementations: can we close the semantic gap with formal property checking?</i>	Wofgang Kunz (Dept. of Electrical & Computer Engineering, University of Kaiserslautern, Germany)
14:05 - 14:25	<i>Experiences with Representations and Verification for Asynchronous Circuits</i>	Thang Bui (Ho Chi Minh City University of Technology, Vietnam); Tin Nguyen (Ho Chi Minh City University of Technology, Vietnam); Anh-Vu Dinh-Duc (HCM University of Technology, Vietnam)
14:25 - 14:45	<i>Hardware/Software Formal Co-Verification Using Hardware Verification Techniques</i>	Minh Nguyen (Hanoi University of Science and Technology, Vietnam); Wolfgang Kunz (University of Kaiserslautern, Germany)
14:45 - 15:05	<i>A Framework for Secure Remote Updating of Bitstream on Runtime Reconfigurable Embedded Platforms</i>	Thanh Tran (Ha Noi University of Science and Technology, Vietnam); Pham Ngoc Nam (Ha Noi University of Science and Technology, Vietnam); Tran Hoang Vu (Ha Noi University of Science and Technology, Vietnam); Nguyen Van Cuong (Da Nang University of Technology)

Coffee Break & Joint Poster Session 2 - Satellite Navigation Technology and Signal Processing & Applications

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

Track: Microwave Engineering

ME-1: Electromagnetism

Time: 8:45 - 10:05

Room: Le Cinema B

Session chair: Hiroshi Shirai (Chuo University, Japan)

Time	Title	Authors
8:45 - 9:05	<i>Calculation of Electromagnetic Scattering from N-Object Configurations by Superposition Solution Combined with Method of Moments</i>	Masahiro Tanaka (Gifu University, Japan); Nguyen Tien Dong (Gifu University, Japan); Kazuo Tanaka (Gifu University, Japan)
9:05 - 9:25	<i>High Frequency Asymptotic Analysis of Modal Excitation at Flanged Parallel Plane Waveguides</i>	Yuji Abe (Chuo University, Japan); Hiroshi Shirai (Chuo University, Japan); Ryoichi Sato (Niigata University, Japan)
9:25 - 9:45	<i>Analysis of Propagation Characteristics in the Surface Plasmon Polaritons Twisting I-shaped Gap Waveguides</i>	Manh Nguyen Tien (Hanoi University of Science and Technology, Vietnam); Chien Ngoc Dao (Hanoi University of Science and Technology, Vietnam)
9:45 - 10:05	<i>Modified Bayesian Optimization Algorithm for Planar Array Design</i>	Bui Van Ha (Politecnico di Milano, Italy); Marco Mussetta (Politecnico di Milano & Politecnico di Torino, Italy); Francesco Grimaccia (Politecnico di Milano, Italy); Paola Pirinoli (Politecnico di Torino, Italy); Riccardo Enrico Zich (Politecnico di Milano, Italy)

Coffee Break & Poster Session 1 - Communication Networks and Systems

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

ME-2: Electromagnetism (cont.)

Time: 10:45 - 11:45

Room: Le Cinema B

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

Time	Title	Authors
10:45 - 11:05	<i>Improved Compact Genetic Algorithm for EM Complex System Design</i>	Bui Van Ha (Politecnico di Milano, Italy); Riccardo Enrico Zich (Politecnico di Milano, Italy); Marco Mussetta (Politecnico di Milano & Politecnico di Torino, Italy); Paola Pirinoli (Politecnico di Torino, Italy); Chien Ngoc Dao (Hanoi University of Science and Technology, Vietnam)
11:05 - 11:25	<i>A Novel Broadband Electromagnetic Band-Gap based on Sierpinski Gasket Triangles</i>	Phuong Huynh-Nguyen-Bao (Hanoi University of Science and Technology, Vietnam); Chien Ngoc Dao (Hanoi University of Science and Technology, Vietnam); Tuan Tran-Minh (National Institute of Information and Communications Strategy, Vietnam)
11:25 - 11:45	<i>Analysis of Unit Cells for Filter Design Using CRLH Transmission Line</i>	Lei Yang (Jeju National University, Korea); Soo-Duk Seo (Innertron Inc., Korea); Hak-Rae Cho (Innertron Inc., Korea); Doo-Yeong Yang (Jeju National University, Korea)

12:05 - 13:45 Lunch

ME-3: Antennas

Time: 13:45 - 15:25

Room: Le Cinema B

Session chair: Tan Phu Vuong (Grenoble INP-Minatec, France)

Time	Title	Authors
13:45 - 14:05	<i>A Broadband Low-Cost Antenna Array for Frequency Modulated Continuous Wave (FMCW) Radars Operating at 24 GHz</i>	Slawomir Gruszczynski (AGH University of Science and Technology, Poland); Krzysztof Wincza (AGH University of Science and Technology, Poland); Artur Rydosz (AGH University of Science and Technology, Poland)
14:05 - 14:25	<i>Frequency Reconfigurable PIFA Antenna Driven By Microcontroller</i>	Trong Duc Nguyen (Laboratory IMEP-LAHC, Grenoble INP-Minatec, France), Yvan Duroc (Laboratory LCIS, Grenoble INP, France), Vu Van Yem (Hanoi University Of Science and Technology, Vietnam) and Tan Phu Vuong (Laboratory IMEP-LAHC, Grenoble INP-Minatec, France)
14:25 - 14:45	<i>Design of a High Gain Antenna at 5.8GHz Using a New Metamaterials Structure</i>	Minh Thuy LE (IMEP-LAHC, Grenoble Institute of Technology, France), Quoc Cuong NGUYEN (International Research Institute MICA, HUST, Vietnam), Tan Phu VUONG (IMEP-LAHC, Grenoble Institute of Technology, France), Quoc Cuong NGUYEN (International Research Institute MICA, HUST, Vietnam), Christian DEFAY (MultiToll Solutions SAS Company, Asnières, France)
14:45 - 15:05	<i>Reflectarray antenna for X-band satellite communication</i>	Bui Van Ha (Politecnico di Milano, Italy); Paola Pirinoli (Politecnico di Torino, Italy); Riccardo

		Enrico Zich (Politecnico di Milano, Italy); Marco Mussetta (Politecnico di Milano & Politecnico di Torino, Italy); Chien Ngoc Dao (Hanoi University of Science and Technology, Vietnam)
15:05 - 15:25	<i>On Optimization of Antennas without Phase Center for DOA estimation</i>	Tran Thi Thuy-Quynh (VNU University of Engineering and Technology, Vietnam); Nguyen Linh-Trung (Vietnam National University, Hanoi, Vietnam); Phan Anh (REV, Vietnam); Karim Abed Meraim (Telecom ParisTech CNRS/LTCl/TSI, France)
<p><u>Coffee Break & Joint Poster Session 2 - Satellite Navigation Technology and Signal Processing & Applications</u> Time: 15:25 - 16:05 (see below for detailed poster program)</p>		

Track: Signal Processing and Applications

SPA-1: Imaging systems and display

Time: 8:45 - 10:05

Room: Banquet

Session chair: Anthony De Souza-Daw (RMIT, Vietnam)

Time	Title	Authors
8:45 - 9:05	<i>Intermediate View-Point Depth Map Generation For View-Point Control In A Digital Holographic Display</i>	Ja Myung Koo (Kwangwoon University, Korea); Young-Ho Seo (Kwangwoon University, Korea); Jisang Yoo (Kwangwoon University, Korea); Dong-Wook Kim (Kwangwoon University, Korea)
9:05 - 9:25	<i>Fitting Plane Algorithm-based Depth Correction for Tyxz DeepSea Stereoscopic Imaging</i>	Duong Van Nguyen (University of Siegen, Germany); Tao Jiang (University of Siegen, Germany); Lars Kuhnert (University of Siegen, Germany); Klaus-Dieter Kuhnert (University of Siegen, Germany)
9:25 - 9:45	<i>Affine Invariant Local Features based on Novel Keypoint Detection and Grouping</i>	Chengho Hsin (Feng Chia University, Taiwan); Hau Bui Van (Feng Chia University, Taiwan)
9:45 - 10:05	<i>Extraction of Human Facial Features based on Haar Feature with Adaboost and Image Recognition Techniques</i>	Phuong Hoang Minh (Hanoi University of Science and Technology, Vietnam); Dung Le (Hanoi University of Science and Technology, Vietnam); Anthony de Souza-Daw (RMIT International University Vietnam & Hanoi University of Science and Technology, Vietnam); Thang Manh Hoang (Hanoi University of Science and Technology, Vietnam); Nguyen Tien Dzung (Hanoi University of Science and Technology, Vietnam)

Coffee Break & Poster Session 1 - Communication Networks and Systems

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

SPA-2: Imaging systems and display (cont.)

Time: 10:45 - 12:05

Room: Banquet

Session chair: Dat Tran (University of Canberra, Australia)

Time	Title	Authors
10:45 - 11:05	<i>Modulation Codes Using Mixed Integer Programming Approach for Multi-Level Holographic Data Storage</i>	Jinyoung Kim (Soongsil University, Korea); Jaejin Lee (Soongsil University, Korea); Taehyung Park (Soongsil University, Korea)
11:05 - 11:25	<i>Senior Health Monitoring Using Kinect</i>	Monish Parajuli (University of Canberra, Australia); Dat Tran (University of Canberra, Australia)

		Australia); Wanli Ma (University of Canberra, Australia); Dharmendra Sharma (University of Canberra, Australia)
11:25 - 11:45	<i>Automatic identification of massive lesions in digitalized mammograms</i>	Viet Dung Nguyen (Hanoi University of Science and Technology, Vietnam)
11:45 – 12:05	<i>Multi-Sphere Support Vector Data Description for Brain-Computer Interface</i>	Phuoc Nguyen (University of Canberra, Australia); <u>Dat Tran</u> (University of Canberra, Australia); Trung Le (University of Canberra, Australia); Tuan Hoang (University of Canberra, Australia); Dharmendra Sharma (University of Canberra, Australia)

12:05 - 13:45 Lunch

SPA-3: Imaging systems and display (cont.)

Time: 13:45 - 15:25

Room: Banquet

Session chair: Hoang Duong Tuan (University of Technology, Sydney, Australia)

Time	Title	Authors
13:45 - 14:05	<i>Binaural speech enhancement system combining dereverberation and spatial masking-based noise removal for robust speech recognition</i>	Tran Dung (Hanoi University of Science and Technology, Vietnam); Dang Khoa Nguyen (HUST, Vietnam); Quoc Cuong Nguyen (Hanoi University of Science and Technology, Vietnam)
14:05 - 14:25	<i>Perceptual Difference Evaluation of Video Alternatives in Adaptive Streaming</i>	Cong Thang Truong (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan); Pham Nam (HUST, Vietnam)
14:25 - 14:45	<i>Automated tracking of the mandibular canal in CBCT images using matching and multiple hypotheses methods</i>	Brecht Moris (University of Hasselt, Belgium); Constantinus Politis (, Belgium); Yi Sun (St. John's Hospital, Genk, Belgium); Luc Claesen (Hasselt University - tUL - IBBT, Belgium)
14:45 – 15:05	<i>An efficient and reliable human resource management system based on a hybrid of face authentication and RFID technology</i>	Nguyen Tien Dzung (Hanoi University of Science and Technology, Vietnam); Thang Manh Hoang (Hanoi University of Science and Technology, Vietnam); Anthony de Souza-Daw (RMIT International University Vietnam & Hanoi University of Science and Technology, Vietnam)
15:05 - 15:25	<i>Implementation of Fractal image compression on FPGA</i>	Thai Son (VTV Vietnam, Vietnam); Nguyen Tien Dzung (Hanoi University of Science and Technology, Vietnam); Thang Manh Hoang (Hanoi University of Science and Technology, Vietnam)

Coffee Break & Joint Poster Session 2 - Satellite Navigation Technology and Signal Processing & Applications

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

SPA-4: Signal and Image Enhancement

Time: 16:05 - 18:05

Room: Banquet

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

Time	Title	Authors
16:05 - 16:25	<i>Multisensor Data Fusion in Nonlinear Bayesian Filtering</i>	Umar Rashid (University of Technology, Sydney, Australia); Hoang D. Tuan (University of Technology, Sydney, Australia); Pierre Apkarian (ONERA-CERT, Toulouse, Australia); Ha H Kha (University of Technology Sydney, Australia)
16:25 - 16:45	<i>Adaptive Rank Based Impulsive Noise Reduction in Color Images</i>	Bogdan Smolka (Silesian University of Technology, Poland)
16:45 - 17:05	<i>Indoor Positioning System based on</i>	Se-Hoon Yang (Yonsei University, Korea); Deok-

	<i>Visible Light using Location Code</i>	Rae Kim (Yonsei University, Korea); Hyun-Seung Kim (Yonsei University, Korea); Yong-Hwan Son (Yonsei University, Korea); Han Sang-Kook (Yonsei university, Seoul, Korea)
17:05 - 17:25	<i>System Identification for Terahertz Wave's Propagation and Reflection in Human Skin</i>	Bao C. Q. Truong (University of Technology Sydney, Australia); Hoang D. Tuan (University of Technology, Sydney, Australia); Ha H Kha (University of Technology Sydney, Australia); Hung Nguyen (University of Technology, Sydney, Australia)
17:25 – 17:45	<i>On Efficient Non-Recursive Comb Decimator Structure for $M=3n$</i>	Gordana Jovanovic Dolecek (INAOE, Mexico); Gerardo Molina Salgado (Institute INAOE, Mexico)
17:45 – 18:05	<i>Sequence Learning and Generation Using a Spiking Neural Network</i>	Fuyuko Watanabe (Computer Systems Department, University of Aizu, Japan) and Robert H. Fujii (Computer Systems Department, University of Aizu, Japan)

Thursday, August 2nd, 2012

POSTER SESSIONS

Coffee Break & Poster Session 1 - Communication Networks and Systems

Time: 10:05 - 10:45

Time	Title	Authors
10:05 – 10:45	<i>A New Method for Data Visualization in WSN</i>	Anh-Vu Dinh-Duc (HCM University of Technology, Vietnam)
	<i>Distributed Signaling Message Handling for eNodeB in MME(Mobility Management Entity)</i>	Seunghee Yi (LG-Ericsson, Korea)
	<i>Joint Congestion and Power Control in Fast-Fading Wireless Network using Successive Convex Approximation Method</i>	Nguyen H. Tran (Kyung Hee University, Korea); Choong Seon Hong (Kyung Hee University, Korea)
	<i>Performance Comparison of Reinforcement Learning and User Preference Strategy for CTM-based Network Selection</i>	Kittisak Kittitaytang (Chulalongkorn University, Thailand); Chaodit Aswakul (Chulalongkorn University, Thailand)
	<i>Dynamic packet rate optimization based on network quality</i>	Junhyo Shin (Senior Research Engineer, Korea)
	<i>Study on Adaptive Array and Carrier Diversity Hybrid OFDM Receiver for ISDB-T Mobile Reception</i>	Yui Shimura (University of the Ryukyus, Japan); Tom Wada (University of the Ryukyus, Japan)
	<i>Pre-Processor for Jalloul's Space-Time Block Codes</i>	Chang-Joong Kim (Hong-Ik University, Korea); Ho-Kyoung Lee (Hongik University, Korea)
	<i>Investigation on Performance of ICI Canceller for OFDM Mobile Receiver</i>	Genta Izumi (University of Ryukyus, Japan)
	<i>Technologies for terminals in opportunistic radio applications</i>	Van Tam Nguyen (Télécom-ParisTech, France); Patrick Loumeau (Telecom ParisTech, France)
	<i>Implementing an OFDM Transmitter and Receiver For Optical Communication Systems</i>	Khoa Dang (University of Science, Ho Chi Minh City, Vietnam); Tu Nguyen (University of Science, Ho Chi Minh City, Vietnam); Thu Nguyen (University of Science, Ho Chi Minh City, Vietnam); Phuong Nguyen (University of Science, Ho Chi Minh City, Vietnam)
	<i>A High Order Derivative Gaussian Pulse</i>	Nhan Nguyen (University of Science, VNU-HCM)

<i>Generator using LC-Tank for 6.3-10GHz UWB Transmitter</i>	& VNU-HCM City, Vietnam)
<i>A Communication System for Smart Grids using Powerline Communications (PLC) Technology - Field Trials and Initial Measurement Results</i>	Van Binh Pham (Hanoi University of Science and Technology, Vietnam); Le Phu Do (Dresden University of Technology, Germany); Anh Nguyen (Hanoi University of Science and Technology, Vietnam)
<i>WDM-OFDMA-PON With Rate Adaptive Bit Loading Algorithm</i>	Iwa Katiwa (Yonsei University, Korea); Sang-Min Jung (Yonsei University, Korea); Moon-Ki Hong (Yonsei University, Korea); Sang-Kook Han (Yonsei University, Korea)
<i>A Resource Management Framework for Mobile IPTV Service with Scalable Video Coding</i>	Yongin Choi (Korea University, Korea); Jinwoo Kim (Korea University, Korea); Ju Kim (Korea Telecom, Korea); Jin Jeong (Korea Telecom, Korea); Wan Chun (Korea University, Korea); Chung G. Kang (Korea University, Korea)

Coffee Break & Joint Poster Session 2 - Satellite Navigation Technology and Signal Processing & Applications

Time: 15:25 - 16:05

Time	Title	Authors
15:25-16:05	<i>Application of Extended and Linear Kalman Filters for an Integrated Navigation System</i>	Thang Van Nguyen (Broadcasting College 1, Vietnam); Tang Pham (Military Academy of Logistics, Vietnam); Ninh Vu (University of Engineering and Technology, Vietnam); Trinh Chu (University of Engineering and Technology, Vietnam); Tran Duc Tan (University of Engineering and Technology (UET), VNUH, Vietnam)
	<i>A new algorithm for intersection area calculation in GSM network</i>	Vinh Tuan Tran(HUST, Vietnam); Quang Xuan Phuong (HUST, Vietnam); Tung Hai Ta (HUST, Vietnam)
	<i>Multi-view Consistency Depth Image Estimation</i>	<u>Anh Tu Tran</u> (Hiroshima University, Japan)
	<i>CNN Image Processing Based Autonomous Robot Path Planning</i>	Shamina Akter (Jeonbuk National University, Korea); Deok-Jin Lee (Kunsan National University, Korea); <u>Ansu Singh</u> (Jeonbuk National University, Korea); Kil To Chong (Jeonbuk National University, Korea)
	<i>The Livebook contents for special education based on the bare-hands system with pico-projector</i>	Kee Baek Kim (Freegine Co., LTD., Korea); Jae In Lee (FREEGINE Co., Ltd., Korea); Jae Wan Choi (FREEGINE Co., Ltd., Korea); Jongho Choi (Kangnam University, Korea)
	<i>Fault Detections On Three-Phase Power Transmission Line By Using Artificial Neural Networks</i>	Linh Tran (HUST & School of Electrical Eng, Vietnam); Binh Tran (Hanoi University of Science and Technology, Vietnam); Dave Cartes (Florida State University, USA); Sanjeev Srivastava (Florida State University, USA)
	<i>Enhanced Gaussian Mixture Modeling in YCrCb color space</i>	Nga Hoang Nguyen (KAIST, Korea); Vu Hai (Hanoi University of Science and Technology, Vietnam); Hwang Soo Lee (KAIST, Korea)
	<i>A method for hand detection based on Internal Haar-like features and Cascaded AdaBoost Classifier</i>	Van-Toi Nguyen (Ha Noi University of Science and Technology, Vietnam); Thi-Lan Le (MICA, HUST, Vietnam); Thanh-Hai Tran (Hanoi University of Science and Technology, Vietnam); Rémy Mullot (L3i, France); Vincent Courboulay (University of La Rochelle, France)

	<i>Tunable Fano Resonance in Microring Resonator Coupled 4x4 Generalized Mach Zehnder Interferometer Structures</i>	Trung-Thanh Le (Hanoi University of Natural Resources and Environment, Australia); Duc-Han Tran (Hanoi University of Science and Technology, USA); Cao-Dung Truong (Hanoi University of Science and Technology, USA)
	<i>Method of real time information processing in the Distributed Control System</i>	Nguyen Trong Cac (HUST, Vietnam); Nguyen Khang (HUST, Vietnam)

Friday, August 3rd, 2012

ORAL SESSIONS

Track: Communication Networks and Systems

CN-4: Wireless Sensor and Adhoc Networks (cont.)

Time: 8:45 - 9:45

Room: Le Cinema A

Session chair: Ha Hoang Kha (University of Technology Sydney, Australia)

Time	Title	Authors
8:45 - 9:05	<i>Joint MAC and Routing protocol for OFDMA-Based Adhoc Networks</i>	Van Duc Nguyen (Hanoi University of Science and Technology, Vietnam); Khanh Nguyen Quang (Hanoi University of Science and Technology, Vietnam); Luong Pham Van (Sungkyunkwan University, Korea); Trung Thanh Nguyen (Faculty of Engineering, The University of Duisburg-Essen, Germany); Ha Duyen Trung (Hanoi University of Science and Technology, Vietnam); Van Binh Pham (Hanoi University of Science and Technology, Vietnam)
9:05 - 9:25	<i>A SINR-based Transmission Power Control for MAC Protocol in Wireless Ad hoc Networks</i>	Duc Ngoc Minh Dang (Kyung Hee University, Korea); Choong Seon Hong (Kyung Hee University, Korea)
9:25 - 9:45	<i>Location-demanded Data Delivery over Vehicular Ad hoc Networks</i>	Pham Tien (Hanoi University of Science and Technology, Vietnam); Viet Bui (Viettel Research and Development Institute, Vietnam); Nguyen Dung (Hanoi University of Science and Technology, Vietnam); Cuong Tran (Hanoi University of Science and Technology, Vietnam)

CS-2: Channel estimation and interference cancellation

Time: 8:45 - 9:45

Room: Le Cinema B

Session chair: Vo Nguyen Quoc Bao (PTIT, Vietnam)

Time	Title	Authors
8:45 - 9:05	<i>Capacity of the Two-way Relay Channel Based on Pilot Channel Estimation</i>	Mohammad Abu Hanif (Chonbuk National University & College of Engineering, Korea)
9:05 - 9:25	<i>Researching on BEM in Interference Analysis of TV-Band Whitespace</i>	Chuyen Khoa Huynh (Soongsil University, Korea)
9:25 - 9:45	<i>A Relay Selection Scheme with Interference Cancellation at The Receiver</i>	Binh Nguyen (Gwangju Institute of Science and Technology, Korea); Hyoyong Jung (Gwangju Institute of Science and Technology, Korea); Kiseon Kim (GIST - Gwangju, Republic of Korea, Korea)

CS-3: Advanced modulation and coding schemes

Time: 8:45 - 9:45

Room: Banquet

Session chair: Van Yem Vu (Hanoi University of Science and Technology, Vietnam)

Time	Title	Authors
8:45 - 9:05	<i>A Combination Scheme of CPWPM and BPSK for Digital Communication</i>	Nguyen Xuan Quyen (Hanoi University of Science and Technology, Vietnam); Van Yem Vu (Hanoi University Of Science and Technology & School of Electronics and Telecommunications, Vietnam); Thang Manh Hoang (Hanoi University of Science and Technology, Vietnam); Safwan El Assad (École Polytechnique de l'Université de Nantes, France); Kyandoghere Kyamakya (Alpen Adria University Klagenfurt, Austria)
9:05 - 9:25	<i>The Performance of Polar Codes in Distributed Source Coding</i>	Vu Thi Thuy Trang (School of Information and Communication Engineering & Sungkyunkwan University, Korea); Jin Whan Kang (Sungkyunkwan University, Korea); Min Jang (Sungkyunkwan University, Korea); Jong-hwan Kim (Sungkyunkwan University, Korea); Sang-Hyo Kim (Sungkyunkwan University, Korea)
9:25 - 9:45	<i>Performance Analysis of Spectrum Sharing-based Multi-Hop Decode-and-Forward Relay Networks under Interference Constraints</i>	Thien Thanh Tran (Ho Chi Minh City University of Transport, Vietnam); Bao Quoc Vo Nguyen (Posts and Telecommunications Institute of Technology, Vietnam); Thanh Dinh Vu (HoChiMinh City University of Technology, Vietnam); Tuan-Duc Nguyen (International University, HCMC VNU, Vietnam)

Coffee Break & Joint Poster Session 3 - Electronic Systems and Microwave Engineering

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

CN-5: Overlay and Applications

Time: 10:45 - 12:05

Room: Le Cinema A

Session chair: Ulf Körner (Lund University, Sweden)

Time	Title	Authors
10:45 - 11:05	<i>Content Sharing using P2PSIP protocol in Wi-Fi Direct Networks</i>	Tuan Duong Nguyen (SoongSil University, Vietnam); Ngoc-Thanh Dinh (SoongSil University, Vietnam); YoungHan Kim (Soongsil University, Korea)
11:05 - 11:25	<i>Wikipedia and its Network of Authors from a Social Network Perspective</i>	Matthias Hirth (University of Wuerzburg, Germany); Frank Lehrieder (University of Wuerzburg, Germany); Stephan Oberste-Vorth (University of Wuerzburg, Germany); Tobias Hoßfeld (University of Wuerzburg, Germany); Phuoc Tran-Gia (University of Wuerzburg, Germany)
11:25 - 11:45	<i>Design and Implementation of the Application-level Migration Tool on Multi-site Cloud</i>	Duy Nguyen (HCMC University Of Technology, Vietnam); Thoai Nam (Ho Chi Minh City University of Technology, Vietnam)
11:45 - 12:05	<i>Video Streaming over HTTP with Dynamic Resource Prediction</i>	Cong Thang Truong (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan); Jungwon Kang (ETRI, Korea)

CS-4: Other Topics in Wireless Communications

Time: 10:45 - 11:45

Room: Le Cinema B

Session chair: Takumi Miyoshi (Shibaura Institute of Technology, Japan)

Time	Title	Authors
10:45 - 11:05	<i>LTE-Advanced Relay System Performance with Backhaul Link Enhancements</i>	Byoungseong Park (LG-Ericsson, Korea); Heebong Lee (LG-Ericsson, Korea); Dongjoo Park (LG-Ericsson, Korea); Kyoungin Kwon (LG-Ericsson, Korea)
11:05 - 11:25	<i>Impact of Windowing on Power Allocation in Cognitive Radio Systems</i>	Tuan Le (Authority of Radio Frequency Management, Vietnam); Thanh Hieu Nguyen (Vietnam National University, Vietnam); Hieu C Dinh (Waseda University, Japan); Viet-Kinh Nguyen (University of Technology - Hanoi National University, Vietnam)
11:25 - 11:45	<i>A Novel Low Complexity Beamforming Scheme for Special Case of Non-Generative Multi-Group Multi-Way Relaying</i>	Nga Tu Ly (International University of Viet Nam, Vietnam); Hung Do (International University of Viet Nam, Vietnam); Linh Mai (International University of Viet Nam, Vietnam)

Track: Electronic Systems

ES-4: Applications

Time: 8:45 - 10:25

Room: Le Royal

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

Time	Title	Authors
8:45 - 9:05	<i>Invited talk: System-on-Chip Design Challenges for Multi-Camera Computational Video</i>	Luc Claesen (Hasselt University, Belgium)

9:05 - 9:25	<i>Low-Error and Efficient Fixed-Width Squarer for Digital Signal Processing Applications</i>	Van-Phuc Hoang (University of Electro-Communications, Tokyo, Japan); Pham Cong-Kha (The University of Electro-Communication, Japan)
9:25 - 9:45	<i>Implementation of H.264/AVC Encoder on Coarse-grained Dynamically Reconfigurable Computing System</i>	Kiem Hung Nguyen (Southeast University, P.R. China); Peng Cao (Southeast University, P.R. China); XueXiang Wang (Southeast University, Nanjing, P.R. China)
9:45 - 10:05	<i>Multiplier-less Based Architecture for Variable-length FFT Hardware Implementation</i>	Cuong Nguyen (Hanoi University of Science and Technology, Vietnam); Lam Nguyen (Hanoi University of Science and Technology, Vietnam); Minh Nguyen (Hanoi University of Science and Technology, Vietnam)
10:05 - 10:25	<i>Synchronization algorithm and FPGA implementation for Transmit-Reference UWB receiver</i>	Hai Viet Nguyen (Hanoi University of Science and Technology, Vietnam); Hoang Tran (Hanoi University of Science and Technology, Vietnam)
<p><u>Coffee Break & Joint Poster Session 3 - Electronic Systems and Microwave Engineering</u> Time: 10:05 - 10:45 (see below for detailed poster program)</p>		

UNIFI WORKSHOP

8:45 - 10:05	<p><u>UNIFI-1: UNIFI WORKSHOP</u> Room: La Róse Session chair: Stefan Covaci (TU Berlin, Germany)</p>	
08:45 – 09:05	<u>Invited talk: The Role of Open Standard Platforms for Enabling UNIFIED International Education, Research & Collaboration</u>	Thomas Magedanz, Fraunhofer FOKUS Berlin, Germany
09:05 – 09:25	<i>Innovation in Education to address the Future Internet Challenges</i>	Serge Fdida, Universite Pierre et Marie Curie (UPMC), Paris, France
09:25 – 09:45	<i>Local Initiatives on Internet for Sustainable Future: From Research Academia to Thai Society</i>	Chaodit Aswakul, Chaiyachet Saivichit, Prasit Prapinmongkolkarn, Chulalongkorn University, Bangkok, Thailand
09:45 – 10:05	<i>UNIFI: Establishing Sustainable Academic Facilities for Next Generation Networks and Future Internet through Global Interoperable Human and Technical Resources</i>	Stefan Covaci, Technische Universitaet Berlin, Germany
<p><u>Coffee Break & Joint Poster Session 3 - Electronic Systems and Microwave Engineering</u> Time: 10:05 - 10:45 (see below for detailed poster program)</p>		
10:45 - 11:45	<p><u>UNIFI-2: UNIFI WORKSHOP</u> Room: La Róse Session chair: Serge Fdida (Universite Pierre et Marie Curie, Paris, France)</p>	
10:45 – 11:05	<i>G-Lab: the German Future-Internet Experimental Platform</i>	Phuoc Tran-Gia (University of Wuerzburg, Germany)
11:05 – 11:25	<i>NGN and Future Internet in Vietnam: From Research and Education to Real</i>	Nguyen Huu Thanh (Hanoi University of Science and Technology, Vietnam)

	<i>Deployment</i>	
11:25 – 11:45	<i>Invited Talk: Future Internet Research and Experimentation, Future Internet Forum</i>	Jorge Pereira (Principal Scientific Officer, European Commission, DG INFSO Dir. F - Emerging Technologies and Infrastructures, Unit F4 - New Infrastructure Paradigms and Experimental Facilities)

Friday, August 3rd, 2012

POSTER SESSIONS

Coffee Break & Joint Poster Session 3 - Electronic Systems and Microwave Engineering

Time: 10:05 - 10:45

Time	Title	Authors
10:05 – 10:45	<i>New Design of a Polarization Maintaining 2D Photonic Crystal with Highly Nonlinear Properties and Nearly Zero Dispersion Flattened at 1550nm</i>	Nguyen Hoang Hai (Hanoi University of Science and Technology, Vietnam); Shubi Kaijage (University of the Ryukyus, Okinawa, Japan), Nghiem Xuan Tam (Vietnam Post and Telecommunication, Hanoi, Vietnam)
	<i>Contributions on Microstrip Wideband Filter Design</i>	Thai Thien Nguyen (Ho Chi Minh City University of Technology, Vietnam); Thai Long Vu Doan (Ho Chi Minh City University of Technology, Vietnam); Manh Ha Hoang (Ho Chi Minh City University of Technology, Vietnam); Hong Phuong Phan (Ho Chi Minh City University of Technology & Laboratory of Nanotechnology, Ho Chi Minh City National University, Vietnam)
	<i>Analysis and Design of UWB Vivaldi Antenna for Ground Penetration Applications</i>	Hien Chu-Ba (Hanoi University of Science and Technology, Vietnam); Loan Pham-Nguyen (Hanoi University of Science and Technology & School of Electronics and Telecommunications, Vietnam); Chien Ngoc Dao (Hanoi University of Science and Technology, Vietnam)
	<i>An FPGA Implementation of Neuro-Fuzzy Algorithm for Noise Filtering in Impulse Noise Corrupted Images</i>	Nguyen Van Cuong (Danang University of Technology, Vietnam)
	<i>Saving energy equipment in lighting system for fluorescent lamps</i>	Kien Nguyen Phan (No. 1 Dai Co Viet Str., Vietnam); Dung Hoang (Lecturer, Vietnam); Sang Vu (Researcher, Vietnam); Hai Mac (Researcher, Vietnam)
	<i>Dynamic Optimization Technique for Power Loss Reduction of Class-D Amplifier</i>	Chun Wei Lin (National Yunlin University of Science & Technology, Taiwan); <u>Bing Shiun Hsieh</u> (National Yunlin University of Science & Technology, Taiwan)
	<i>Hardware/Software CoDesign of an Acceleration SoC for Interactive Digital Painting</i>	<u>Luc Claesen</u> (Hasselt University - tUL - IBBT, Belgium); Andy Motten (Hasselt University - tUL - IBBT, Belgium); Yun Pan (Zhejiang University, P.R. China); Ning Zheng (Zhejiang University, P.R. China); Peter Vandoren (University Hasselt - tUL - IBBT, Belgium); Frank Van Reeth (University Hasselt - tUL - IBBT, Belgium); Jingjin Hu (Zhejiang University, P.R. China); Xiaolang Yan (Zhejiang University, P.R. China)
	<i>ASIC Implementation of High Throughput Parallel AES-CCM for IEEE 802.11ac</i>	Khoa D. Nguyen (Ho Chi Minh City University of Science, Vietnam)

	<p><i>Design of Automated Dialyzer and Bloodline Washing System and Quality Assessment of Dialyzer after Reprocessing for Reusing in Hemodialysis</i></p>	<p>Vu Hai (Hanoi University of Science and Technology, Vietnam); Nguyen Thuan (Hanoi University of Science and Technology, Vietnam); Dao Hung (Hanoi University of Science and Technology, Vietnam); Nguyen Duc (Hanoi University of Science and Technology, Vietnam); Le Quyen (Hanoi University of Science and Technology, Vietnam)</p>
	<p><i>Transcribing Vietnamese by a New Phonetic Code System</i></p>	<p>Bu-Yong Shin (Korea Advanced Institute of Science and Technology (KAIST), Korea); Minh Nguyen (Korea Advanced Institute of Science and Technology, Korea); Lien Nguyen (Korea Advanced Institute of Science and Technology, Korea)</p>