

**Technical Program of:**

**Computing, Communications & Applications  
Conference - (ComComAp 2013)**

**Hong Kong, China**

**April 2—4, 2013**

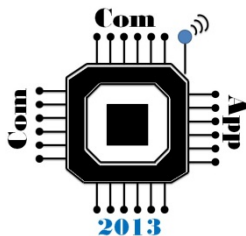
**Hong Kong University of Science & Technology**

**IEEE ComComAp 2013**  
**Technical Program at Glance**  
**Hong Kong, China, April 2—4, 2013**

DATE	TIME	ROOM		
Tuesday - April 2, 2013		LT-J	LT-K	Rm2612A
	8:30-9:00	WELCOME & OPENING		
	9:00-10:00	<b>KEYNOTE 1:</b> Prof. Vincent Chan, IEEE Fellow, MIT, USA <b>TITLE:</b> Where optical and wireless networks meet computing		
	10:00-10:30	COFFEE BREAK		
	10:30-12:30	Invited Speakers		
	12:30-13:30	LUNCH BREAK		
	13:30-15:30	TA-1	TA-2	TA-3
	15:30-16:00	Coffee Break		
	16:00-18:00	TA-4	TA-5	TA-6
18:00-21:00	RECEPTION			
Wednesday - April 3	9:00-10:00	<b>KEYNOTE 2:</b> Prof. Fumiyuki Adachi, IEEE Fellow, Tohoku University, Japan <b>TITLE:</b> Gigabit Wireless Signal Processing and Networking		
	10:00-10:30	Coffee Break		
	10:30-12:30	Invited Speakers		
	12:30-13:30	LUNCH BREAK		
	13:30-15:30	WA-1	WA-2	WA-3
	15:30-16:00	Coffee Break		
	19:00-21:00	BANQUET DINNER		

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**IEEE ComComAp 2013**  
**Technical Program - Hong Kong,**  
**China, April 2—4, 2013**  
**Tuesday, April 2, 2013**

**Registration:** (8:00-15:00)

**Room:** Open Hall

**Opening Session:** (8:30-9:00)

**Room:** LT-J

**Chairs:** Prof. Khaled BenLetaief, HKUST Dean of Engineering & ComComAp2013 General Chair, Hong Kong  
Prof. Mounir Hamdi, HKUST, Head of CSCE & ComComAp2013 Program Chair, Hong Kong

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**KEYNOTE 1 (9:00-10:00)**

**Room:** LT-J

**Speaker:** Prof. Vincent Chan, MIT, USA

**Title:** Where optical and wireless networks meet computing

**Chair:** Prof. Khaled BenLetaief, HKUST Dean of Engineering and General Chair, Hong Kong

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**COFFE BREAK (10:00 – 10:30)**

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**Tuesday Morning Invited Speakers (TM)—(10:30-12:30)**

**TM-1: Room:** LT-J

**Invited Speakers:**

1. Qian Zhang, Hong Kong University of Science & Technology, Hong Kong
2. Wei Chen, Tsinghua University, China
3. Matthew McKay, Hong Kong University of Science & Technology, Hong Kong

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**LUNCH BREAK (12:00 – 13:30)**

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## **Tuesday Afternoon Sessions (TA)—(13:30-15:30)**

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**TA-1: Room:** LT-J

**Session Title:** Communication & Networking

**Session Chair:** Sajal Das, University Texas at Arlington, USA

**1569708203:** A Troubleshooting Home Internet Connection Framework for Malaysian Service Provider, Ali Jalooli; Nurul Haniza Bt Mohtar; Khalida Shajaratuddur Bt Harun; Nor Azlina Abd Rahman (Asia Pacific University College of Technology & Innovation, Malaysia)

**1569703175:** The Design and Development of Infrastructured Mutual Assistant Networks, Chia-Kuan Yen; Sheng-Yang Peng; Yi-Chyuan Hwang; Ren-Song Ko (National Chung Cheng University, Taiwan)

**1569709079:** Trust and Exclusion in Vehicular Ad Hoc Networks: An Economic Incentive Model based Approach, Nadia Haddadou; Abderrezak Rachedi (University Paris-Est Marne-la-Vallée, France); Yacine Ghamri-Doudane (ENSIIE & Université Paris-Est (LIGM Lab), France)

**1569708455:** Video Streaming over Content Centric Networking: Experimental Studies on PlanetLab, Suphakit Awiphan; Takeshi Muto; Yu Wang; Zhou Su; Jiro Katto (Waseda University, Japan)

**1569708463:** A Conceptual Model of Intention to Use Health Information Associated with Online Social Network, Waransanang Boontarig (King Mongkut's University Of Technology Thonburi, Thailand)

**1569709021:** Minimum Distance Based Precoding for Closed-Loop QO-STBC Systems with Single-Symbol Decodable ML Receiver, Jaesin Kim, Junghun Ryu, Suil Kim, and Ui-Young Pak, (Agency for Defense Development (ADD), Korea)

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**TA-2: Room:** LT-K

**Session Title:** Wireless Sensors

**Session Chair:** Nidal Nasser, Alfaisal University, SA

**1569707737:** Tree-based Data Aggregation Mechanism using Center of Gravity in Wireless Sensor Networks, Kuo-Feng Huang (Taipei College of Maritime Technology, Taiwan); ChenChe Hung; Su Wei-Chih; Ying-Hong Wang (TamKang University, Taiwan)

**1569708247:** On the Feasibility of making Intelligent Antenna Selection Decision in IEEE 802.15.4 Wireless Sensor Networks, Mubashir Husain Rehmani (COMSATS Institute of Information Technology, France); Abderrezak Rachedi; Stephane Lohier; Thierry Alves; Benoit Poussot (Université Paris-Est Marne-la-Vallée, France)

**1569708567:** Distributed Composition Services for Self-adaptation Wireless Sensor Networks, Lei Zhang (Tianjin University, P.R. China); Maode Ma (Nanyang Technological University, Singapore); Gang Zhang (Tianjin University, Tianjin, P.R. China); Alvin Lim (Auburn University, USA)

**1569708911:** A New Routing Mechanism based on Virtual Coordination Anchor Node for WSNs, Kai-Ti Chang; Ying-Hong Wang (TamKang University, Taiwan)

**1569718635:** A Novel Two-Threshold Cooperative Spectrum Sensing Algorithm using Swarm Intelligence, Fahham Mohammed and Mohamed A. Deriche (King Fahd University of Petroleum and Minerals, Saudi Arabia)

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## **COFFEE BREAK (15:30-16:00)**

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## **Tuesday Afternoon Sessions (TA)—(16:00-18:00)**

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**TA-4: Room:** LT-J

**Session Title:** IT Applications

**Session Chair:** Lei Chen, Hong Kong University of Science and Technology, Hong Kong

**1569709049:** Visualizing Geolocation of Spam Email, Asmah Muallem; Sachin Shetty; Keith Hargrove (Tennessee State University, USA)

**1569707839:** A Supervised Learning Method Combine with Dimensionality Reduction in Vietnamese Text Summarization, Ha Nguyen Thi Thu, Quynh Nguyen Huu, Tu Nguyen Thi Ngoc (Vietnam Electric Power University, Vietnam)

**1569707167:** Runking: A Mobile Social Persuasion System for Running Exercise, Zongjian He; Yigui Luo (Tongji University, P.R. China); Guanqing Liang (The Hong Kong Polytechnic University, Hong Kong)

**1569717999:** Elastic Correction of Altitude Errors in Indoor Location System, Yingzheng Hong (Shanghai Fire Research Institute of the Ministry of Public Security, P.R. China)

**1569699979:** Improving the Evaluation of Generator Matrix G by Initial Upper Bound Estimation, Ungku Azlin Nur Ungku Chulan; Harlisya Harun (University Putra Malaysia (UPM), Malaysia); Ungku Azmi Iskandar Ungku Chulan (Consultant, Malaysia); Khamizon Khazani (CIMA, Malaysia)

**1569716519:** Arabic Sign Language Recognition by Decisions Fusion using Dempster-Shafer Theory of Evidence, M. Mohandes, M. Deriche, (King Fahd University of Petroleum and Minerals, Saudi Arabia)

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**TA-5: Room:** LT-K

**Session Title:** Wireless Networking

**Session Chair:** Wei Chen, Tsinghua University, China

**1569704501:** Time-Spreading Wavelength-Hopping OCDMA System Using LDPC Code, Maw-Yang Liu, Yi-Kai Hsu, Chien-Hsien Chiang (National Ilan University, Taiwan)

**1569708177:** A novel peak-to-average power ratio reduction method for amplitude phase shift keying, Jun Wang, Zhenyu Liu, Ziwei Luo, Zhaocheng Wang (Tsinghua University, P.R. China)

**1569715735:** Distributed Spatial-Temporal Compressive Data Gathering for Large-scale WSNs, Xuangou Wu, Mingxi Li, Wenchao Huang (University of Science and Technology of China, P.R. China)

**1569708909:** Energy Efficient and Fairness Scheduling of Periodic Real-Time Tasks for Wireless Embedded Systems, Wilawan Rukpakavong, Peter Bull, Lin Guan, Alan Grigg (Loughborough University, United Kingdom)

**1569707471:** Linear FIR Precoding for Frequency Selective MIMO Channels Using Gaussian Randomization, Xiaodong Xu; Zilong Zhang; Qiang Gu; Baisheng Du (University of Science and Technology of China, P.R. China)

**1569712421:** A Review on Adaptive Frequency Selective Surfaces (AFSS) based Patch Antennas, Sonam Thakur, R. L. Yadava (Galgotias College of Engineering & Technology, India), Sushrut Das (ISM, Dhanbad, Ranchi, India)

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**TA-6: Room:** Room-2612A

**Session Title:** Systems Security and Embedded Architectures

**Session Chair:** Abderrezak Rachedi, Université Paris-Est Marne-la-Vallée, France

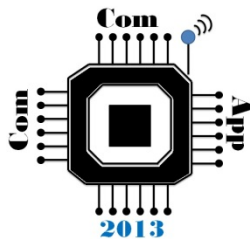
**1569717979:** Proxy Re-Encryption Conjunctive Keyword Search against Keyword Guessing Attack, Yang Yang (Fuzhou University, P.R. China)

**1569715765:** Risk assessment of the Individual Housing loans by Grey Data Mining Based on AHP-GRAP, Size Li, Yuanyuan Shi, Zhangdui Zhong, Gang Zhu (Beijing Jiaotong University, P.R. China), Ai Bo (Beijing Jiaotong University, P.R. China)

**1569683639:** Solid State Drives, Mohammed Ibrahim Alghamdi (Al-Baha University, Saudi Arabia)

**1569708609:** A Load-Balanced Pipeline Architecture for IP Route Lookup, Shengqing Hu, Yi Wu, Ge Nong (Sun Yat-Sen University, P.R. China)

**RECEPTION (19:00—21:00)**



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**Wednesday, April 3, 2013**

**Registration: (8:00-12:00)**

**Room:** Open Hall

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**KEYNOTE 2 (9:00-10:00)**

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**Room:** LT-J

**Speaker:** Fumiyuki Adachi, IEEE Fellow, Distinguished Professor, Tohoku University, Japan

**Title:** Gigabit Wireless Signal Processing and Networking

**Chair:** Prof. Khaled BenLetaief, HKUST Dean of Engineering and General Chair, Hong Kong

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**COFFE BREAK (10:00 – 10:30)**

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**Wednesday Morning Invited Speakers (WM)—(10:30-12:30)**

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**WM-1: Room:** LT-J

**Invited Speakers:**

1. Sajal Das, University Texas at Arlington, USA
  2. Yang Qiang, Hong Kong University of Science & Technology/Huawei, Hong Kong
  3. James She, Hong Kong University of Science & Technology, Hong Kong
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**LUNCH BREAK (12:00 – 13:30)**

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## **Wednesday Afternoon Sessions (WA)—(13:30-15:30)**

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**WA-1: Room:** LT-J

**Session Title:** Performance Evaluation/Modeling and Simulation

**Session Chair:** Mohsin Iftikhar, King Saud University, Saudi Arabia

**1569709207:** The explicit analysis of polling systems combined with non-preemptive priority scheduling under self-similar traffic input, Mohsin Iftikhar, Ijaz Ali Shoukat, Hussain Salman (King Saud University, Saudi Arabia), Sghaier Guizani (Alfaisal University, Saudi Arabia)

**1569715699:** Delay Minimization for Reliable Data Collection on Overhead Transmission Lines in Smart Grid, Peng Li, Song Guo (The University of Aizu, Japan)

**1569707945:** An Iterative MVDR CFO Estimation for Interleaved OFDMA Uplink Systems, Shang-Heng Yang (Ling Tung University, Taiwan)

**1569708605:** Capacity and Outage Performance of Asynchronous Alamouti Cooperative Diversity, Jianqing Chen (Chongqing Communication Institute, P.R. China)

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**WA-2: Room:** LT-K

**Session Title:** Network Coding

**Session Chair:** Pingyi Fan, Tsinghua University, P.R. China

**1569704505:** Concatenated Coded OFDM System over AWGN Channel with H.264 Source Coding, Maw-Yang Liu; Chien-Hsien Chiang; Yi-Kai Hsu (National Ilan University, Taiwan)

**1569707155:** Revisiting Two-Way Channel: Opportunistic Network Coding Scheduling in Fading Channels, Chen Zhi (National University of Singapore, Singapore); Pingyi Fan (Tsinghua University, P.R. China); Khaled Ben Letaief (Hong Kong University of Science & Technology, Hong Kong)

**1569707837,** Efficient Relay Selection in Multi-Source Cooperative Networks, Wei-Yi Shen; Kuang-Hao (Stanley) Liu (National Cheng Kung University, Taiwan)

**1569709193:** On the performance of Multi-Way Relay Communications via Complex Field Network Coding, Wei Li; Guobing Li; Shihua Zhu; Tao Liu (Xi'an Jiaotong University, P.R. China)

**1569715705:** Water-filling Capacity Analysis in Large MIMO Systems, Yi Lu (The University of New South Wales, Australia); Wei Zhang (The University of New South Wales, Australia)

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**COFFEE BREAK (15:30-16:00)**

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**BANQUET DINNER (19:00—21:00)**

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**Thursday April 4, 2013 — No Sessions Scheduled this Day!**

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