

**Technical Program of:**

**Computing, Communications & Applications  
Conference - (ComComAp 2012)**

**Hong Kong, China**

**January 11—13, 2012**

**Hong Kong University of Science & Technology**

## GREETINGS FROM THE GENERAL CHAIR

Welcome to Hong Kong, Asia's world city and the most *exciting* city in the world.

On behalf of the organizing committee of ComComAp 2012, I would like to welcome all of you in our beloved city Hong Kong during the period of January 11-13, 2012. Hong Kong is well known for its excellence in information and communications technology and enjoys its status as one of the regions in the world with the highest prevalence rate of broadband usage as well as mobile phone penetration. It is also positioned as the gateway into the vast China market.

We are very fortunate to have so many talented and well recognized people involved in the process of submitting papers, chairing tracks, and reviewing papers. We also feel grateful for the support we received from the IEEE Communications Society as well as IEEE. Above all, we are very delighted and thankful to the keynote speakers for their participation in this technical event. Very sincere and special thanks to our Patrons: Huawei and HKUST.

We invite all of you to join us and interact with the experts attending this conference from all around the world. At the same time, please do not forget to enjoy our beautiful city and the many amenities that it has to offer to special visitors and guests like you.

We assure you that you will have a *memorable* experience you will never forget.

Prof. Khaled Ben Letaief, *Dean of Engineering*

General Chair, *ComComAp 2012*

*The Hong Kong University of Science and Technology*



# IEEE ComComAp 2012

## Technical Program at Glance

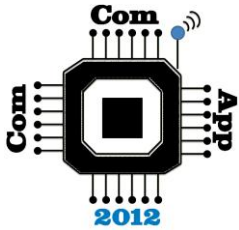
Hong Kong, China, January 11–13, 2012

DATE	TIME	ROOM		
Wednesday - January 11		LT-J	LT-K	Rm2612A
	8:00-8:30	WELCOME & OPENING		
	8:30-10:00	<b>KEYNOTE 1:</b> Dr. Wu Chou, IEEE Fellow, Chief IT Scientist, Head of Huawei Shannon Lab <b>TITLE:</b> Internet, Web, and Cloud for Next Generation IT		
	10:00-10:30	COFFEE BREAK		
	10:30-12:30	WM-1	WM-2	WM-3
	12:30-13:30	LUNCH BREAK		
	13:30-15:30	WA-1	WA-2	WA-3
	15:30-16:00	Coffee Break		
	16:00-18:00	WA-4	WA-5	WA-6
19:00-21:00	RECEPTION/BANQUET DINNER			
Thursday - January 12	8:30-10:00	<b>KEYNOTE 2:</b> Vijay Bhargava, IEEE ComSoc President &, Professor at UBC, Canada <b>TITLE:</b> Green Cellular Networks: A Survey, Some Research Issues and Challenges		
	10:00-10:30	Coffee Break		
	10:30-12:30	ThM-1	ThM-2	ThM-3
	12:30-13:30	LUNCH BREAK		
	13:30-15:30	ThA-1	ThA-2	ThA-3
	15:30-16:00	Coffee Break		
	16:00-18:00	ThA-4	ThA-5	ThA-6

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# IEEE ComComAp 2012

## Technical Program - Hong Kong, China, January 11–13, 2012

### Wednesday, January 11, 2012

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

**Room:** Open Hall

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

**Room:** LT-J

**Speaker:** Prof. Khaled BenLetaief, HKUST Dean of Engineering & ComComAp2012 General Chair, Hong Kong  
Prof. Mounir Hamdi, HKUST, Head of CSE & ComComAp2012 Program Chair, Hong Kong

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#### **KEYNOTE 1 (8:30-10:00)**

**Room:** LT-J

**Speaker:** Dr. Wu Chou, Head of Shannon Lab. and Chief IT Scientist, Huawei, China

**Title:** Internet, Web, and Cloud for Next Generation IT

**Chair:** Prof. Qian Zhang, HKUST, Co-General Chair of ComComAp2012, Hong Kong

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#### **COFFE BREAK (10:00 – 10:30)**

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#### **Wednesday Morning Sessions (WM)—(10:30-12:30)**

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

**Session Title:** Wireless Sensor Networks (CNIT Track)

**Session Chair:** Phone Lin, National Taiwan University, Taiwan

**Session Co-Chair:** Tao Yaling, University of Tsukuba, Japan

**1569498679:** Network-Calculus-Based QoS Analysis of Network Coding in Cluster-tree Wireless Sensor Networks;  
*Lie Jiang; Li Yu; Zilong Chen (Huazhong University of Science and Technology, P.R. China)*

**1569504993:** Hierarchical Flow Balancing Protocol for Data Aggregation in Wireless Sensor Networks;  
*Tao Yaling; Yongbing Zhang (University of Tsukuba, Japan)*

**1569520453:** Adaptive Hybrid Data Aggregation Policy for Asynchronous MAC-based Clustered Sensor Networks;  
*Min-Gon Kim (KAIST, Korea); HongKyu Jeong (Gyungil University, Korea); Hong-Shik Park (KAIST, Korea)*

**1569520697:** A Novel Data Collection Scheme with Cluster-based Separate Network Coding for WSNs;  
*Xiucai Ye; Jie Li (University of Tsukuba, Japan); Li Xu (Fujian Normal Univ, P.R. China); M. Guizani (Qatar Univ, Qatar)*

**1569521615:** Kuhn-Tucker Conditions for Nuclear Norm Optimization Methods for Interference Alignment;  
*Aamir Shahzad; Rong Ke Liu (Beihang University, P.R. China)*

**1569522811:** Accurate Bit-Error Rate Estimation for Residual Wireless Channels using Partial FEC; *Abdulhaseeb Ishtiaq Ahmed (Air University, Pakistan)*

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**WM-2: Room:** LT-K

**Session Title:** Networks and communication systems (CSS Track)

**Session Chairs:** Ezedin Barka, UAE University, UAE

**1569519919:** From NS-2 to NS-3 - Implementation and Evaluation,

*Nattavit Kamoltham; Kulit Na Nakorn; Kultida Rojviboonchai (Chulalongkorn University, Thailand)*

**1569520545:** Managing Access and Usage Controls in SNMP, *Ezedin Barka (UAE University, UAE)*

**1569499841:** Non-Access-Stratum Request Attack in E-UTRAN,

*Da Yu; Wushao Wen (Sun Yat-Sen University, P.R. China)*

**1569507461:** Design and Performance Evaluation of Tag Caching Router Architecture for CGM Content,

*Hiroshi Kurose (The Graduate University for Advanced Studies, Japan)*

**1569507379:** Capacity Bounds and Stochastic Resonance for Binary Input Binary Output Channels,

*Ira S Moskowitz (Naval Research Laboratory, USA); Paul Cotaie (University of The District of Columbia, USA);*

*Pedro Safier (S & J Soutions LLC, USA); Daniel Kang (TJ High School, Alexandria, VA, USA)*

**1569522375:** Unidirectional Flow Throughput Enhancement Through Physical-Layer Network Coding;

*Sofean Maeouf; Bechir Hamdaoui (Oregon State University, USA); Mohsen Guizani (Qatar University, Qatar)*

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**WM-3: Room:** Rm2612A

**Session Title:** Resource Management Optimization (CNIT Track)

**Session Chair:** Mazen Hasna (Qatar University, Qatar)

**1569532113:** Performances Analysis of SEC Based Transmit Diversity Systems with MRC Receivers;

*Hela Chamkhia; Mazen Omar Hasna; Ridha Hamila (Qatar University, Qatar)*

**1569519843:** An Opportunistic Feedback Scheme for Downlink Coordinated Scheduling/Beamforming;

*Weidong Ning (Beijing University of Posts and Telecommunications, P.R. China)*

**1569520559:** A Wireless Channel Allocation Algorithm with the Minimum Interference;

*Lin Chen (National University of Defense Technology, P.R. China)*

**1569520561:** A New Channel Allocation Scheme for Mobility Support in IEEE 802.11 Wireless Networks;

*Youchan Jeon (Korea University, Korea); Sangwon Park (Korea Communications Commission (KCC), Korea);*

*Myeongyu Kim; Yeunwoong Kyung (Korea University, Korea); Jinwoo Park (University of Korea, Korea)*

**1569521383:** User QoE-based adaptive routing system for future Internet;

*Abdelhamid Mellouk (UPEC, University Paris-Est Creteil Val de Marne, France)*

**1569521713:** Difference to Sum Ratio Factor based Min-Sum decoding for Low Density Parity Check Codes;

*Mohammad Rakibul Islam (Islamic University of Technology, Bangladesh)*

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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:** Mobile and Cloud Services (CNIT Track)

**Session Chair:** Tin-Yu Wu (Tamkang University, Taiwan)

**Session Co-Chair:** Wei-Tsong Lee (Tamkang university, Taiwan)

**1569505101:** Dynamic Load Balancing Mechanism based on Cloud Storage; *Tin-Yu Wu; Wei-Tsong Lee (Tamkang*

*University, Taiwan); Yih-Sin Lin (TKU, Taiwan); Jhih-Siang Huang (Tamkang University, Taiwan); Yu-San*

*Lin (Chung-Shan Institute of Science and Technology, Taiwan)*

**1569507795:** Quantifying Importance of Reference Locations for RSS-based Localization;

*Shih-Hau Fang; Ting-Yu Huang (Yuan Ze University, Taiwan); Yao Shiao (YZU, Taiwan)*

**1569510139:** Android-Based Mobile Payment Service Protected by 3-Factor Authentication and Virtual Private Ad Hoc

Networking; *Chian C. Ho (National Yunlin University of Science and Technology, Taiwan)*

**1569510159:** Android-Based Patrol Robot Featuring Automatic License Plate Recognition;  
*Chian C. Ho (National Yunlin University of Science and Technology, Taiwan)*

**1569515559:** Design of Application Service of E-Business Card based on Mobile Device;  
*Sajina Pradhan; Dong-You Choi (Chosun University, Korea)*

**1569507763:** Peer to Peer Technologies in Future LTE Self-Organizing Networks;  
*Heng Zhang (Nokia Siemens Networks, P.R. China)*

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

**Session Title:** Network Applications (Engineering/IT Applications Track; EITA Track)

**Session Chair:** Shih-Hau Fang, Yuan Ze University, Taiwan

**Session Co-Chair:** Whai-En Chen, National I-Lan University, Taiwan

**1569495065:** Empirical Pathloss Characterization for Oman, *Zia Nadir (Sultan Qaboos University, Oman)*

**1569507981:** IoT Operations Management and Traffic Analysis for Future Internet, *Kai-Di Chang (National Taiwan University of Science and Technology, TW); Chi-Yuan Chen (National Dong Hwa University, TW); Han-Chieh Chao (National Ilan University, TW); Jiann-Liang Chen (National Taiwan University of Science and Technology, TW)*

**1569519915:** Developing a Mobile Phone-based Fall Detection System on Android Platform,  
*Shih-Hau Fang; Yi-Chung Liang (Yuan Ze University, TW); Kuan-Ming Chiu (Far Eastern Memorial Hospital, TW)*

**1569520347:** Vulnerability of Small Networks for the TTL Expiry DDoS Attack,  
*Young-Tae Han (KAIST, Korea); Nam-Seok Ko (ETRI, Korea); Min-Gon Kim; Hong-Shik Park (KAIST, Korea)*

**1569520783:** Proactive and Reactive Collaboration Schemes for Multi-domain Networks Monitoring,  
*Aymen Belghith (Université de Rennes, France); Siwar Ben Hadj Said (Telecom Bretagne, France); Bernard Cousin; Samer Lahoud (IRISA, University of Rennes, France)*

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**WA-3: Room:** Rm2612A

**Session Title:** Communication Systems I (CNIT Track)

**Session Chair:** Heung-Gyoon Ryu, Chungbuk National University, Korea

**1569507751:** Indoor WPAN Communication System Using 2-Dimensional Array Antenna in 60GHz Frequency Band;  
*HuiKyu Lee; Heung-Gyoon Ryu (Chungbuk National University, Korea)*

**1569508219:** Concatenated Orthogonal Space-Time Block Coding with Four Dimensional 8-PSK Trellis Coded Modulation over Fading Channels in Absence of Channel State Information; *Slaheddine Jarboui; Emna Ben Slimane (National School of Engineers of Tunis, Tunisia)*

**1569515119:** A Simple One-Constant Feedback Quasi-Orthogonal Space-Time Block Code Transmission Scheme;  
*Chi-Min Li; Yu-Ching Chen (National Taiwan Ocean University, Taiwan)*

**1569518347:** A Power-saving Scheduling Algorithm for Mixed Multicast and Unicast Traffic in MBSFN;  
*Chaoan Wu; Xuekang Sun; Tiankui Zhang (Beijing University of Posts and Telecommunications, P.R. China)*

**1569520327:** Wireless Repeater with Decision Feedback Equalizer based on LDPC Code;  
*Haeseong Jeong; Heung-Gyoon Ryu (Chungbuk National University, Korea)*

**1569507989:** PIC Decoding Algorithm for Quasi-orthogonal distributed STBC with Non-binary LDPC code,  
*Yier Yan (Guangzhou University, Guangdong, China), Moon Ho Lee (Chonbuk National University, Korea)*

**1569519395:** Channel Estimation Using P1 Symbol for DVB-T2,  
*(Lingyun Cai, Trident Multimedia Technologies, Shanghai, Co., Ltd, P.R. China)*

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

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**Wednesday Afternoon Sessions (WA)—(16:00-18:00)**

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

**Session Title:** Broadband Wireless Networks (CNIT Track)

**Session Chair:** Paul Cotae, University of The District of Columbia, USA

**1569520011:** Adaptive traffic Shaping for WiMAX Networks;

*Jalel Ben-othman (University of Paris 13, France); Lynda Mokdad (University of Paris 12, France)*

**1569520863:** Design of Relay Distances for Multihop WiMAX Systems Based on Bit Error Rate Consideration;

*Buranit Mardamornpun (Suranaree University of Technology, Thailand)*

**1569521327:** Non Binary SC-FDMA for 3GPP LTE Uplink; *Mohd Rakibul Islam (Islamic Univ of Technology, Bangladesh)*

**1569507299:** Adaptive Downlink Coverage Management for Hybrid Macro/Femtocell Networks;

*Furqan Hameed Khan; Young-June Choi (Ajou University, Korea)*

**1569520499:** A Simple and Cheap End-to-End Voice Encryption Framework over GSM-based Networks;

*Prawit Chumchu (Mahanakorn university of Technology, Thailand)*

**1569520539:** Design and Evaluation of Dual Mode Mobile Terminal for Integrated UMTS-WLAN Networks;

*Syed Safdar Ali Rizvi; Mohamad Naufal Mohamad Saad (Universiti Teknologi Petronas, Malaysia)*

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

**Session Title:** Algorithms and AI techniques (CSS Track)

**Session Chair:** Dongjin Yoo, Gwangju Institute of Science and Technology, Korea

**1569498453:** Automatic text classification of sports blog data, *Mita K. Dalal (Sarvajanik College of Engineering & Technology, India); Mukesh Zaveri (Sardar Vallabhai National Institute of Technology, surat, India)*

**1569508217:** Improved Performance of Four Dimensional 8-PSK-TCM Using Fractional Fourier Transform,

*Slaheddine Jarboui; Emna Ben Slimane (National School of Engineers of Tunis, Tunisia)*

**1569520571:** Planar-Oriented Ripple Based Greedy Search Algorithm for Vector Quantization,

*Yeou-Jiunn Chen (Southern Taiwan University, Taiwan)*

**1569513185:** Automatic Creation of Models for Network Intrusion Detection,

*Marko Määttä; Tomi Rätty (VTT Technical Research Centre of Finland, Finland)*

**1569504735:** Forecasting Stock Price based on Fuzzy Time-Series with Equal-Frequency Partitioning and Fast Fourier Transform Algorithm, *Bo-Tsuen Chen; Mu Yen Chen; Min-Hsuan Fan (National Taichung Institute of Technology, Taiwan);*

*Chia Chen Chen (Tunghai University, Taiwan)*

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**RECEPTION/BANQUET DINNER (19:00—21:00)**

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Address of the reception/banquet dinner:

RA restaurant and lounge

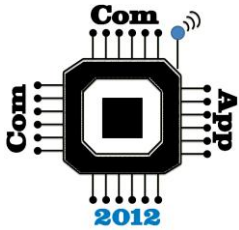
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# IEEE ComComAp 2012

**Technical Program - Hong Kong,  
China, January 11–13, 2012**

## Thursday, January 12, 2012

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

**Room:** Open Hall

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### **KEYNOTE 2 (8:30-10:00)**

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**Room:** LT-J

**Speaker:** Vijay Bhargava, IEEE ComSoc President & Professor at UBC, Canada

**Title:** **Green Cellular Networks: A Survey, Some Research Issues and Challenges**

**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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### **Thursday Morning Sessions (ThM)—(10:30-12:30)**

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**ThM-1: Room:** LT-J

**Session Title:** Cognitive Computing and Networks (CNIT Track)

**Session Chair:** Xing Tang, City University of Hong Kong, Hong Kong

**Session Chair:** Yanan Chang, City University of Hong Kong, Hong Kong

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**1569520083:** Topology Control Approach based on Radio Irregularity using Game Theory for Cognitive Wireless Networks; *Huixing Peng; Yuebin Bai; Xiaoxia Liu; Wentao Yang (Beihang University, P.R. China)*

**1569520503:** A Two-Phase and Two-Period Spectrum Sensing Scheme Using High-Layer Information for Cognitive Radio Networks; *Sheng-Chang Chen; Chung-Ju Chang; Rung-Hung Gau (National Chiao Tung University, Taiwan)*

**1569523525:** Geographical Opportunistic Routing in Dynamic Multi-hop Cognitive Radio Networks;  
*Xing Tang; Yanan Chang; Kunxiao Zhou (City University of Hong Kong, Hong Kong)*

**1569532519:** Optimizing Spectrum Sensing Efficiency in Cognitive Radio Networks;  
*Lu Yang; Shenghui Song; Khaled Letaief (The Hong Kong University of Science and Technology, Hong Kong)*

**1569507803:** No-Regret learning for simultaneous power control and channel allocation in cognitive radio networks;  
*Latifa Boumediene; Zhenguo Gao (Harbin Engineering University, P.R. China); Sheng Liu (College of Automation, Harbin Engineering University, P.R. China)*

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**ThM-2: Room:** LT-K

**Session Title:** Data centric computing, clouds and software methods (CSS Track)

**Session Chair:** Khaled Shuaib, UAE University, UAE

**1569500031:** A Priority Based Approach for PEV Charging in a Smart Grid,

*Khaled Shuaib; Liren Zhang (United Arab Emirates University, UAE)*

**1569521177:** A Data Caching Approach for Sensor Applications, *Mohammed Yehyah Aalsalem (University of Sydney, Australia); Khaled Almi'ani; Bassam A. Y. Alqaralleh (Al-Hussein Bin Talal University, Jordan)*

**1569519755:** A Novel Workflow Based Data Processing Platform as a Service, *Xu Ming (Beijing University of Posts and Telecommunications, P.R. China); Feng Xie (Tsinghua University, P.R. China); Wang Haohan (Beijing University of Posts and Telecommunications, P.R. China); Zhen Chen (Tsinghua University, P.R. China)*

**1569521073:** Evaluating software component quality from vendors using the primitive cognitive network process with ISO/IEC 9126, *Kevin Kam Fung Yuen (Zirve University, Turkey)*

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**WM-3: Room:** Rm2612A

**Session Title:** Education and Biomedical Applications (Engineering/IT Applications (EIT)Track)

**Session Chair:** Phone Lin, National Taiwan University, Taiwan

**Session Co-Chair:** Whai-En Chen, National I-Lan University, Taiwan

**1569504931:** A Multiple Criteria Decision Making Approach for E-learning Platform Selection: The Primitive Cognitive Network Process, *Kevin Kam Fung Yuen (Zirve University, Turkey)*

**1569507007:** Emerging Consumer Technology Applications developed at PVAMU, *Akhtar Lodgher; Kiranmai Bellam (Prairie View A & M University, USA)*

**1569520379:** Semantically Enabled Data Mashups using Ontology Learning Method for Web APIs, *Yong-Ju Lee (Kyungpook National University, Korea)*

**1569507743:** CpGAVES: An Integrated Web Server for Automatic Annotation, Visualization, Editing, and GenBank Submission of Chloroplast Genome Sequences, *YanKai Li; Huan Li; Zhoujun Li (Beihang Univ, P.R. China); C. Yin (Washington State Univ, USA); Y. Zhu; Xiaohan Lin; Chang Liu (Chinese Academy of Medical Sciences, P.R. China)*

**1569507853:** Design and Development of a Clinical Decision Support System for diagnosing appendicitis, *Sivasankar E (National Institute of Technology, India); Rajesh R.S (Manonmaniam Sundaranar University, India)*

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**LUNCH BREAK (12:00 – 13:30)**

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## **Thursday Afternoon Sessions (ThA)—(13:30-15:30)**

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**ThA-1: Room:** LT-J

**Session Title:** Wireless Networks (CNIT Track)

**Session Chair:** Huang Lu, University of Tsukuba, Japan

**Session Co-Chair:** Phone Lin, National Taiwan University, Taiwan

**1569507139:** An Integrated Vehicular-Wireless Evaluation of WAVE/DSRC Connected Vehicle Probe Data Service; *Adelin Miloslavov; Malathi Veeraraghavan (University of Virginia, USA)*

**1569507219:** Energy Optimization For Mobile Nodes in a Cluster Tree IEEE 802.15.4/ZigBee Network; *Chiraz Chaabane (University of Nice-Sophia Antipolis, France); Alain Pegatoquet (LEAT, France); Michel Auguin (LEAT, France); Maher Ben Jemaa (ReDCAD, Tunisia)*

**1569508303:** Evaluation of Communication System Selection applying the AHP Algorithm in Heterogeneous Wireless Networks; *Misato Sasaki; Akira Yamaguchi; Kosuke Yamazaki; Yuichi Imagaki (KDDI R&D Laboratories, Inc., Japan)*

**1569519379:** RTT Fair Congestion Control Algorithm for Satellite Interactive Networks; *MinSu Shin (ETRI, Korea)*

**1569520685:** A Novel ID-based Authentication Framework with Adaptive Privacy Preservation for VANETs; *Huang Lu; Jie Li (University of Tsukuba, Japan); Mohsen Guizani (Qatar University, Qatar)*

**1569520801:** Development of a Visible Light Communications System for Optical Wireless Local Area Networks; *Paul Anthony Haigh; Son Tran; Edward Bentley; Zabih Ghassemloo; Hoa Le Minh (Northumbria University, United Kingdom); Chao Lu (The Hong Kong Polytechnic University, Hong Kong)*

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**ThA-2: Room:** LT-K

**Session Title:** Applications and algorithms (CSS Track)

**Session Chair:** Yue Zhao, Hong Kong University of Science and Technology, Hong Kong

**1569519761:** PivotViewer Based Visualization of Information Analysis, *Yue Zhao (Hong Kong University of Science and Technology, Hong Kong)*

**1569520025:** A New Rate adaptive system: Controlled Soft Demodulation, *Yuheng Huang; Yan Dong (Huazhong University of Science and Technology, P.R. China)*

**1569519831:** On the numerical simulation of reactions induced by radiation, *Alicia Negrón-Mendoza (Instituto de Ciencias Nucleares, UNAM, Mexico); Diego Frias-Suarez (Universidad del Estado de Bahia, Salvador, Brasil, Mexico); Sergio Ramos (Universidad Nacional Autónoma de México, Mexico)*

**1569507289:** Boolean Complex Logic, *Kujira Suzuki (Gakushuin University, Japan); Kin-ya Sugimoto (Chuo University, Japan); Hisashi Suzuki (Chuo University, Japan)*

**1569501467:** Reliability Analysis of Balanced Hypercubes, *Ming-Chien Yang (Aletheia University, Taiwan)*

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

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## **Thursday Afternoon Sessions (ThA)—(16:00-18:00)**

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**ThA-4: Room:** LT-J

**Session Title:** MIMO Systems (CNIT Track)

**Session Chair:** Chao Lu, The Hong Kong Polytechnic University, Hong Kong

**1569507525:** Graph based low Complexity MIMO detection with Intermediate Hard-Decision;

*Seo Kangwoon; Seokhyun Yoon (Dankook University, Korea)*

**1569508225:** A PAPR reduction technique based on Golay sequences and Fractional Fourier Transform for OFDM Systems; *Slaheddine Jarboui (National School of Engineers of Tunis, Tunisia)*

**1569519605:** Throughput Improvement for OFDMA Femtocell Networks Through Spectrum Allocation and Access Control Strategy; *Mingjie Feng; Da Chen; Zhiqiang Wang; Tao Jiang (Huazhong Univ of Science and Technology, P.R. China)*

**1569519689:** Adaptive MIMO Switching of 2x2 MIMO System for WiMAX Technology; *Pattaraporn Khakhai (Suranaree University, Thailand)*

**1569519763:** A Wise tradeoff between Parameters for Minimizing Correlations and for Designing MIMO Systems; *Illa Kolani (BUPT, P.R. China); Jie Zhang (Beijing University of Posts and Telecommunications, P.R. China)*

**1569520099:** Reducing Feedback Load for Proportional Fair Scheduling in MIMO OFDM Systems; *Wenxiu Zhao (Beijing University of Posts and Telecommunications, P.R. China)*

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**ThA-5: Room:** LT-K

**Session Title:** Multimedia Applications (Engineering/IT Applications Track; EITA Track)

**Session Chair:** Whai-En Chen, National I-Lan University, TW (Email: wechen@niu.edu.tw)

**Co-chair:** Phone Lin, National Taiwan University, TW (Email: plin@csie.ntu.edu.tw)

**1569507925:** A Scheduling Mechanism for Multiple MapReduce Jobs in a Workflow Application (Position Paper), *Dongjin Yoo; Kwang Mong Sim (Gwangju Institute of Science and Technology, Korea)*

**1569519675:** Print-and-Scan Resilient Watermarking Through Polarizing DCT Coefficients, *Yuan-Liang Tang (Chaoyang University of Technology, TW); Sheng-Yu Tseng (Chaoyang University of Technology, TW)*

**1569520505:** Broken Traffic Sign Recognition Based on Local Histogram Matching, *Liu Yang (Pukyong National University, Korea)*

**1569520563:** Real swing Extraction for Video indexing in Golf Practice Video, *Peera Chotimanus; Nagul Cooharajanone Suphakant Phimoltares (Chulalongkorn University, Thailand)*

**1569508167:** A New Packet Detection Algorithm Using Properties between Partitioned Chirps for ISO/IEC 24730-5, *Seungryeol Go (Hanyang University, KR), Seonghyun Jang (Hanyang university, KR), Daegun Oh (University of Hanyang, KR), Jong-Wha Chong (Hanyang University, KR)*

**1569516553:** Weight Computing in Competitive K-Means Algorithm, *Tingting Cui (Beijing University of Technology, CN)*

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**FRIDAY January 13, 2012 — City Tours/Visits (on your own)**

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**Organizing Committee:**

**General Chair:**

Khaled Ben Letaief, Hong Kong University of Science & Technology, Hong Kong, China

**General Co-Chair:**

Qian Zhang, Hong Kong University of Science & Technology, Hong Kong, China

**Honorary Program Chairs:**

Victor Leung, University of British Columbia, Canada

Hsiao-Hw Chen, National Cheng Kung University, Taiwan

**Program Chairs:**

Sherman Shen, University of Waterloo, Canada

Mounir Hamdi, Hong Kong University of Science and Technology, Hong Kong, China

Mohsen Guizani, Kuwait University, Kuwait

**Local Organization Co-Chairs:**

Amine Bermak, Hong Kong University of Science and Technology, Hong Kong, China

Lei Chen, Hong Kong University of Science and Technology, Hong Kong, China

C. Y. Tsui, Hong Kong University of Sciences and Technology, Hong Kong, China

**Track Chairs:**

**•Computing Systems and Software (CSS):**

Jelena Masic, Ryerson University, Canada

Tao Jiang, Huazhong University of Science and Technology, China

Abdullah Shami, University of Western Ontario, Canada

**•Communications/Networking and Internet Technologies (CNIT):**

Pingyi Fan, Tsinghua University, China

Xinbing Wang, Shanghai Jiaotong University, Shanghai, China

Nidal Nasser, Guelph University, Canada

**•Engineering/IT applications (EITA):**

Phone Lin, National Taiwan University, Taiwan

Whaijen Chen, National Ilan University, Taiwan

Maode Ma, Nanyang Technological University, Singapore

**Publicity Chair:**

Jalel Ben-Othman, Université de Versailles, France

**Publication Chair:**

Abderrezak Rachedi, University of Paris-Est (Marne-la-Vallée), France

**Registration Chair:**

Yan Zhang, Simula Research Inc., Norway

**Webmaster:**

S. Guizani, Alfaisal University, Riyadh, KSA

**Note:**High quality papers will be invited to be submitted to one of 3 Journal Special Issues:

1. JoC, FTRA Publishing, <http://www.ftrai.org/joc>
2. IJITCC Journal, InderScience, <http://www.inderscience.com/ijitcc>
3. WCMC Journal, [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1530-8677](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1530-8677)

**TPC Members:**

Ai-Chun Pang, National Taiwan University, Taiwan  
Cheng Li, Memorial University, Canada  
Cheng-Xiang Wang, Heriot-Watt University, United Kingdom  
Dan Wang, Hong Kong Polytechnic University, Hong Kong, China  
Deyun Gao, Beijing Jiaotong University, China  
Dongfeng Yuan, Shandong University, China  
Dusit Niyato, National Technological University, Singapore  
Dimitrios G. Stratogiannis, National Technical University of Athens, Greece  
Ezedin Barka, UAE University, UAE  
Fei Xing, Software Engineer, WNBU, Cisco Systems, USA  
Feng She, Alcatel Shanghai Bell, China  
Georgios Tsiropoulos, National Technical University of Athens, Greece  
Hongmei Zhang, Guilin University of Science and Technology, China  
Hongbin Luo, Beijing Jiaotong University, China  
Hong Ji, Beijing University of Posts and Telecommunication, China  
Jianwei Huang, China  
Jun Cai, University of Manitoba, Canada  
Lei SHU, Osaka University, Japan  
Limei Peng, SooChow University, China  
Min Chen, Korea University, Korea  
Ping Wang, National Technological University, Singapore  
Richard Yu, Carleton University, Canada  
Shengming Jiang, South China University of Technology, China  
Song Ci, University of Nebraska, Omaha, USA  
Ting Zhu, University of Massachusetts Amherst, USA  
Vincent Wong, University of British Columbia  
Wang Wei, South Dakota State University, USA  
Weidong Xiang, University of Michigan Dearborn, USA  
Wei-Jen Chen, Pen State University, USA  
Xiaole Bai, University of Massachusetts Dartmouth, USA  
Xiaoming Chen, Zhejiang University, China  
Xingcheng Liu, Sun Yat-Sen University, China  
Yang Yafei, Qualcomm Ltd., USA  
Yan Li, Conviva, Inc, USA  
Yinggang Du, Huawei, China  
Yun Li, Chongqing University of post and telecommunications, China  
Yushen Ji, National Institute of Informatics, Japan  
Zhiquan Bai, Shandong University, China

### **Public Transportation:**

Public transportation in Hong Kong is very efficient, and getting to and from HKUST by taxi, the MTR metro, or bus is easy, as is accessibility by car.

The main gate of the campus features a large and easily recognizable sign with the university's name written in both English and Chinese. Past the main gate, a gently sloping driveway leads to the entrance piazza with a large red sundial at its center.

### **MTR**

The Mass Transit Railway (MTR) is an underground subway (metro) system serving Hong Kong island, Kowloon, and the airport. The MTR is the easiest way for visitors to get around Hong Kong. Tickets can be purchased from machines in the stations on a trip-by-trip basis or you can purchase multi-use Octopus cards at MTR ticket windows.

The Choi Hung, Lam Tin and Hang Hau MTR stations are the closest to the University, and you can board a bus or taxi (details below) to the main entrance of HKUST.

### **Taxi**

Taxis provide the simplest way to get to the University, and are easily available at any MTR station, from hotels and most areas of Hong Kong. From the airport, you can take a taxi at the airport taxi stand and expect to pay approximately HK\$380 (about US\$49) for the journey. Note that only HK dollars will be accepted by your driver.

Print a copy of this page and the map and bring it with you in case you need to show the route or University name and address in Chinese to the taxi driver. The taxi drop-off point on campus is near the red sundial. For on-campus housing destinations, ask the security guard at the main gate to give the taxi driver directions.

### **Buses/Minibuses**

From Choi Hung MTR station: 11S minibus  
From Hang Hau MTR station: 11M minibus  
From Diamond Hill MTR station: 91, 91M buses  
From Po Lam MTR station: 91M bus  
From Ngau Tau Kok MTR station: 104 minibus  
From Tiu Keng Leng MTR station: 792M  
From Sai Kung: 792M bus,

### **Driving (General directions)**

From Hong Kong Island: Take the Eastern Harbour Crossing towards Lam Tin. Continue straight after the roundabout, and get in the right lane towards the Tseung Kwan O Tunnel, following signs for Hang Hau. At the roundabout for Hang Hau, take the Ying Yip Road exit, following the road past the Clearwater Bay Film Studio onto Clearwater Bay Road, and follow signs for HKUST.

From Kowloon: Take Prince Edward Road towards Kwun Tong; after Choi Hung Estates, stay left and follow signs to Clearwater Bay. Take Clearwater Bay road and follow signs to HKUST.

From Shatin: Take Cairns or Lion Rock Tunnel, staying left onto Lung Cheung Road. Follow signs to Sai Kung. Take Clearwater Bay road, following signs for HKUST.

## RECEPTION/BANQUET DINNER to be held on 11<sup>th</sup> Jan 2012

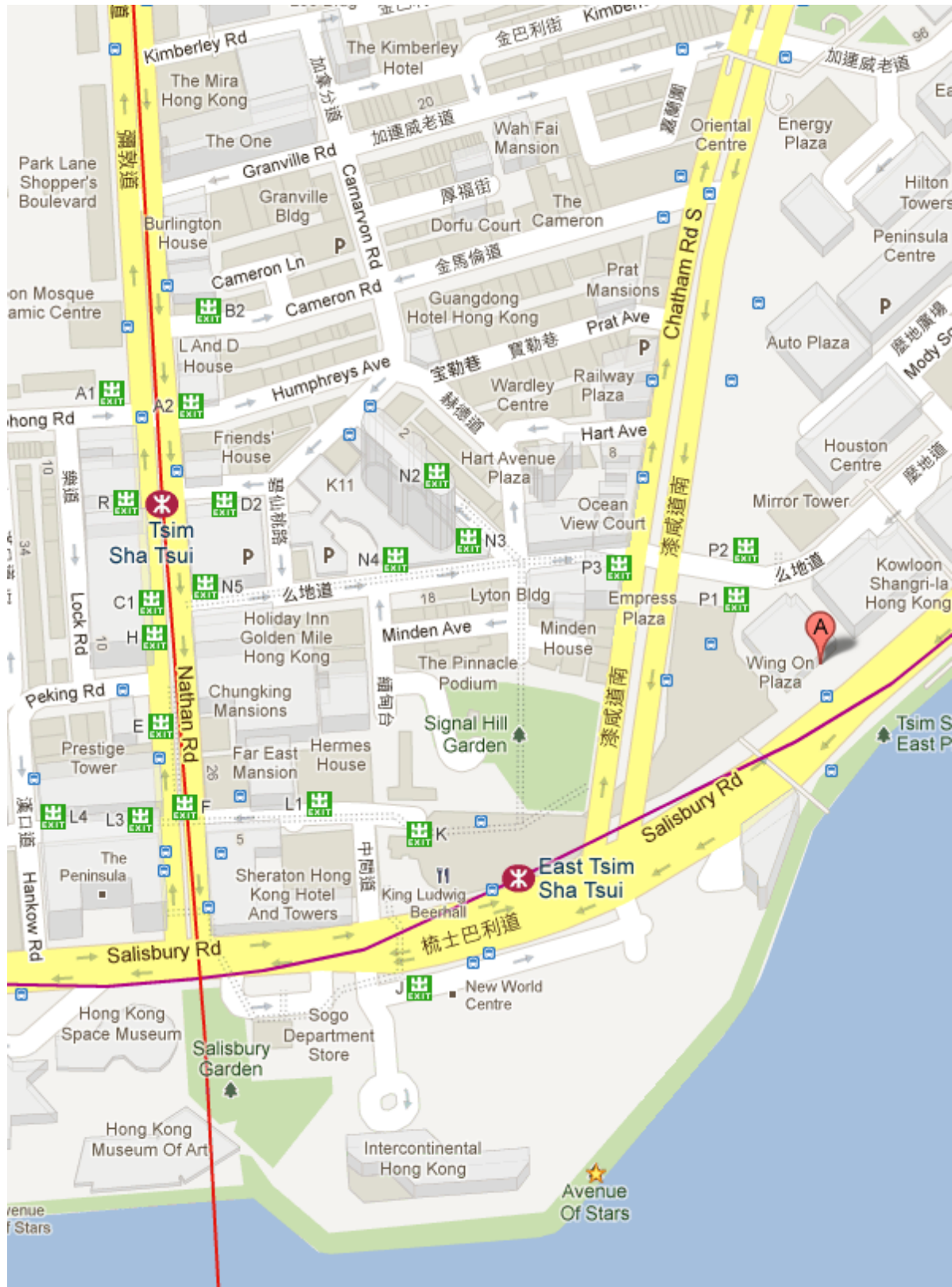
Address of the reception/banquet dinner:

RA restaurant and lounge

Shop1, G/F, Wing On Plaza, 62 Mody Road

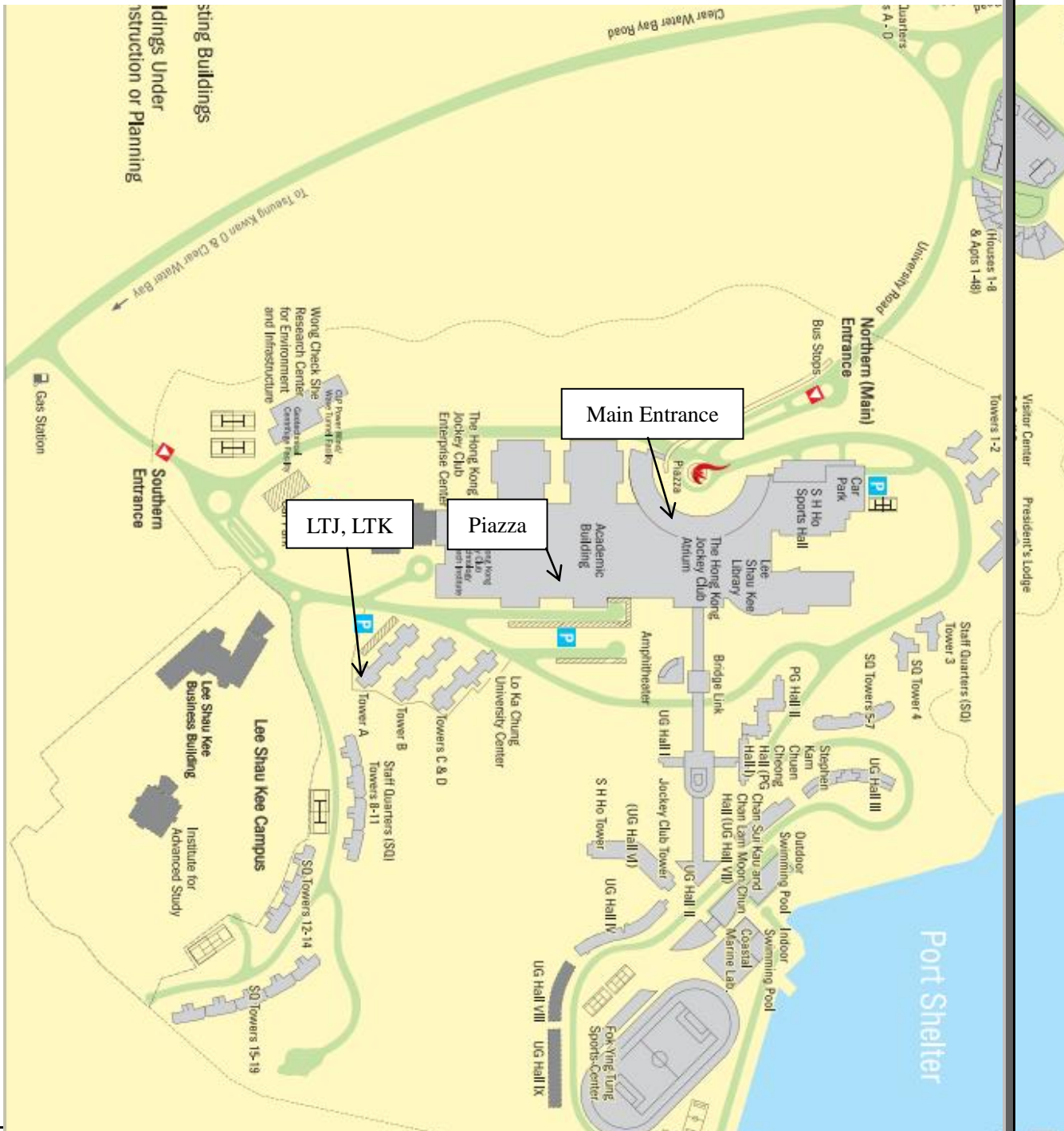
Tsin Sha Tsui, Hong Kong

Phone: +852-2721-3600



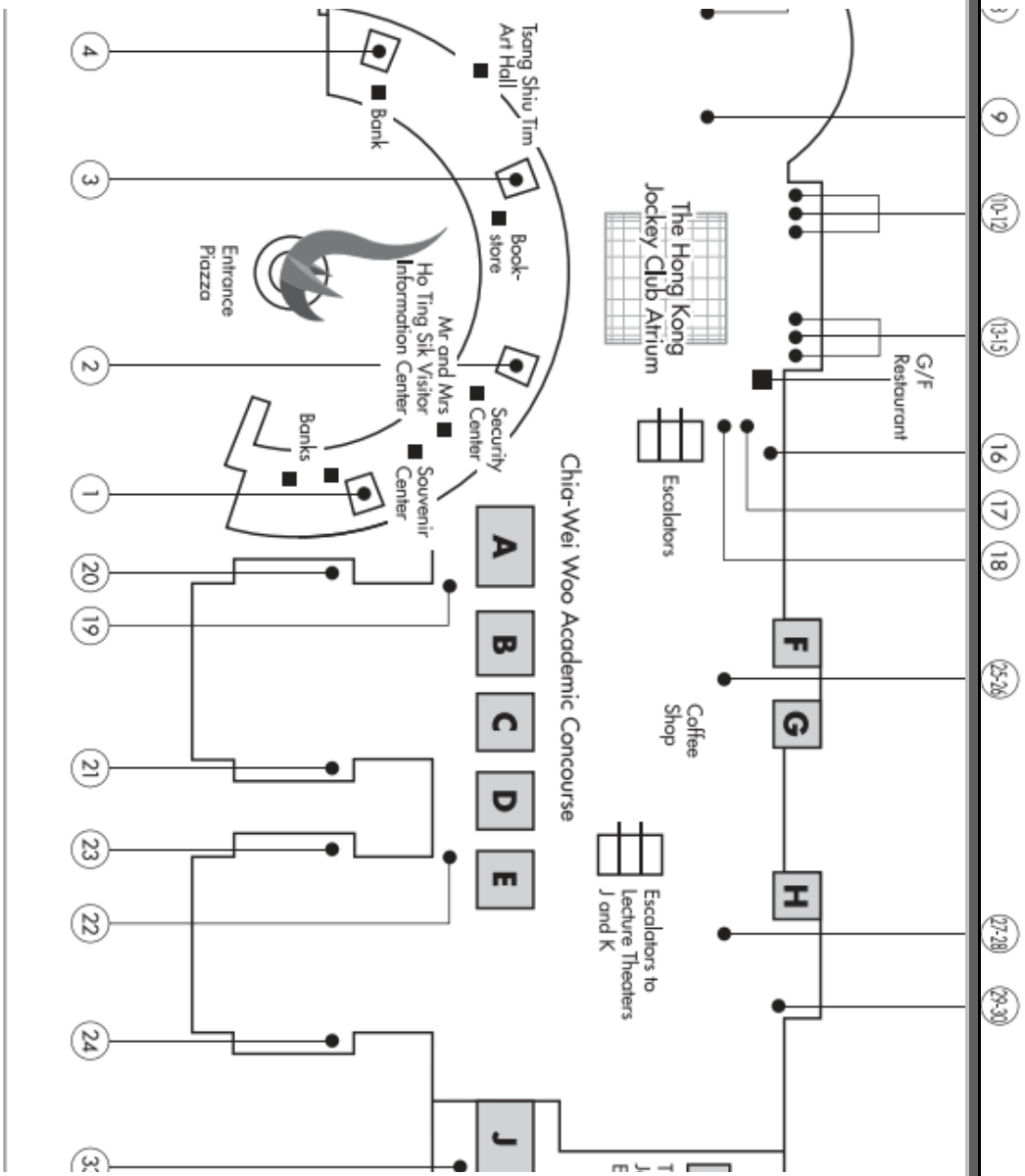


# Map of HKUST



Lift map for main building





RM2612

LTJ, LTK

Location of HKUST



Transportation from airport to HKUST:  
 For passengers with bulky luggage, taking a taxi to HKUST direct is recommended.  
 Those with simple luggage may take Airport Bus A22 to Lam Tin, and c

Bus Routes 巴士路線

ns with bus or green minibus service to HKUST  
 巴士或綠色專線小巴服務的港鐵車站

鑽石山: 91, 91M  
 彩虹: 91, 91M, 11, 11S  
 調景嶺: 792M  
 44, 44M, 44S