



ICUFN 2009

June 7-9, 2009

University of Hong Kong, Hong Kong, China

The First International Conference on Ubiquitous and Future Networks

<http://www.icufn.org>

Final Program



KICS :::::
Korea Information and
Communications Society

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Message from General Co-Chairs

Welcome to ICUFN 2009 – the First International Conference on Ubiquitous and Future Networks, organized by Korea Information and Communications Society (KICS) and technically co-sponsored by IEEE Communications Society (ComSoC).

As a result of the Internet and the existence of wireless ubiquitous technologies, globalization is now within reached. The importance of computer networking and mobile ubiquitous technologies cannot be under-estimated. In fact, such technologies have now greatly impacted our lives and influenced the way we work, commute, shop, etc.

Hong Kong, as a part of China, has always been viewed as the top trading and meeting location. It is where the East meets the West. Given its superb infrastructure, well-served airport and English-speaking environment, we have decided to hold the first ICUFN in Hong Kong. ICUFN is a truly international annual conference! Our TPC team consists of members from countries around the world.

For ICUFN 2009, we have received over 130 submissions from many different countries. We have also invited several established researchers to submit their papers. We have prepared an exciting and comprehensive program for you. We hope you will take this good opportunity to attend the technical sessions, meet the authors, and foster greater collaboration ties with other researchers. In addition, if you have additional time, please do not miss the chance to tour around Hong Kong, especially to some of the famous locations, such as “The Peak”, Lantau Island, Stanley Market, etc.

We hope you will have a fruitful time in Hong Kong! We look forward to your participation and support in the future.

Thank you.

Sincerely yours,



Yeong Min Jang
Kookmin Univ., Korea



C K Toh
Univ. of Hong Kong, China

Message from TPC Co-Chairs

Welcome to the First International Conference on Ubiquitous and Future Networks (ICUFN 2009) We are very pleased to present a conference on very hot, timely, and challenging topics. In its first edition, ICUFN promises to be a great success: the premier venue for the research community to convene and discuss technical challenges behind the evolution of communications.

Through CFPs, we solicited two types of submissions, i.e., 6-page full papers and 2-page extended abstracts. We believe that the extended abstract submissions allowed the authors to submit more up-to-date research results. From the CFPs, we received a total of 127 submissions from 21 countries. For the first year conference, we believe this submission number demonstrates a lot of interest for the focus and the objective of this conference. We finally accepted 39 papers by authors from 14 countries, representing the acceptance ratio of about 30.7%. We regret that many good quality submissions could not be accommodated due to space limitation. On top of these accepted papers, we also invited some top researchers to submit their papers on hot topics to make our technical program even stronger and more exciting. Out of these invitations, we included 7 invited papers into our technical program. Eventually, our technical program is composed of 46 papers covering 10 sessions with double tracks. The program covers a variety of topics across wireless to wireline networking including cognitive radios, P2P, cooperative communication, security issues, etc. It reflects the growing need to develop a cross-layer or cross-community approach to address the future challenges in this area.

We owe many thanks to the Technical Program Committee members and reviewers who thoroughly helped us select quality papers amongst many submitted manuscripts. We had a very well balanced TPC with 61 members which included 41 from Asia, 11 from North America, 8 from Europe, and one from New Zealand in all covering 16 countries. 50 members are in academia while 11 members are from the industry. Each paper went through at least three independent reviews. Our special thanks go to our TPC members for their time and hard work. We would like to thank our sponsors, KICS and IEEE Communications Society, for their support of this successful event. Finally, we would like to express our sincere thanks to our general co-chairs, Prof. Yeong Min Jang and Prof. C. K. Toh, for their support and guidance.

We hope you will find this conference enjoyable, exciting, enriching, and you will contribute to its success by sharing your ideas and discussing research and strategic directions with other researchers and practitioners from around the world. We welcome you to contribute to establish and develop ICUFN in the future.



Sunghyun Choi

Seoul National University, Seoul, Korea



Wanjiun Liao

National Taiwan University, Taipei, Taiwan

June 7 (Sunday)	
18:00-21:00	Welcome Reception
June 8 (Monday)	
09:00-09:10	Opening Address Prof. Yeong Min Jang and Prof. C. K. Toh, General Co-Chairs
09:10-09:40	Keynote Speech I Title: Applied Research and Technology Transfer in Hong Kong Speaker: Nim Cheung CEO, ASTRI, Hong Kong (a former IEEE Communications Society (ComSoc) President)
09:40-10:20	Keynote Speech II Title: Broadband Network and u-City for Future Society Speaker: YoungRo Lee, National Information Society Agency, Korea
10:20-10:40	Coffee Break
10:40-12:20	Session 1 (1A and 1B)
12:20-13:40	Lunch Break
13:40-15:40	Session 2 (2A and 2B)
15:40-16:00	Coffee Break
16:00-18:00	Session 3 (3A and 3B)
18:30-20:30	Banquet
June 9 (Tuesday)	
09:00-11:00	Session 4 (4A and 4B)
11:00-11:20	Coffee Break
11:20-13:00	Session 5 (5A and 5B)

June 8, 2009 (Monday)

10:40-12:20

Session 1A: Cognitive Radio Network and Next Generation Wireless Network

Chair: Yong-Hoon Choi, Kwangwoon University, Korea

[1A-1] Cognitive UWB Pulse Design Using Co-Basis Expansion Method

Kyung Sup Kwak, Rumin Yang (Inha University, KR) *(Invited paper)*

[1A-2] MCR-MAC: Multi-channel Cognitive Radio MAC Protocol for Cooperative Incumbent System Protection in Wireless Ad-hoc Network

Yi Ke (Inha University, KR); Sang-jo Yoo (Inha Univ., KR)

[1A-3] Dynamic SLA Negotiation using Bandwidth Broker for Femtocell Networks

Mostafa Zaman Chowdhury (Kookmin University, KR); Sunwoong Choi (Kookmin University, KR); Yeong Min Jang (Kookmin University, KR); Kap Seok Park (KT Central R&D Lab., KR); Gun Il Yoo (KT Central R&D Lab., KR)

[1A-4] A new approach to reduce Multi-access interference in DS-CDMA

Emran Anas (Bangladesh University of Engineering and Technology, BD); Atahar Mostafa (Bangladesh University of Engineering and Technology, BD)

Session 1B: Wireless Sensor Network

Chair: Sungchang Lee, Korea Aerospace University, Korea

[1B-1] On the Reliability of Backbone-Assisted End-to-End Transmissions in WSNs

Ali Tufail (Ajou University, KR); Syed Ali Khayam (NUST, Pakistan); Amna Ali (Ajou University, KR); Waleed Akram Baig (Ajou University, KR); Fatima Muhammad Anwar (Ajou University, KR); Ki-Hyung Kim (Ajou University, KR); Seung-Wha Yoo (Ajou University, KR)

[1B-2] Quality Assurance for Data Acquisition in Error Prone WSNs

Sunisa Chobsri (Suranaree University of Technology, TH); Watinee Sumalai (Suranaree University of Technology, TH); Wipawee Usaha (Suranaree University of Technology, TH)

[1B-3] Provisioning Geographic Data-Centric Dissemination in Wireless Sensor Networks

Hyunjun Choi; Hwangnam Kim; Sunshin An (Korea University, KR); Minsu Kim (Samsung Electronics, KR); Young Ki Jeon (Samsung Electronics, KR)

[1B-4] Power-aware Location-based Anti-collision Protocol for RFID-Sensor Networks

Su Haoru; Doohyun Ko; Sunshin An (Korea University, KR)

June 8, 2009 (Monday)

13:40-15:40

Session 2A: Peer to Peer Technology and Overlay Networks

Chair: KS Lui, University of Hong Kong, China

[2A-1] A Heterogeneous Peer-to-Peer Network Testbed

Victor O.K. Li, Li Cui, Qiang Liu, Guang-Hua Yang, Ze Zhao, Ka-Cheong Leung, (University of Hong Kong, CN) *(Invited paper)*

[2A-2] Architectural Model and Service Scenario of Dynamic Service Overlay Network (DSON)

Eung Kyu Kim, Youngjun Kim, Ilyoung Chong (Hankuk University of Foreign Studies, KR) *(Invited Paper)*

[2A-3] Relay Node Selection in Large-Scale VoIP Overlay Networks

Quang Bui (RMIT University, AU); Andrew Jennings (RMIT University, AU)

[2A-4] An Efficient Gossip Based Overlay Network For P2P Networks

M Hasan Islam (Centre for Advanced Studies in Engineering, PK); Sanaa Waheed (Fatima Jinnah Women University, PK); Izza Zubair (Fatima Jinnah Women University Rawalpindi Pakistan, PK)

[2A-5] Grey-box Mechanism Design in Peer-to-Peer Cooperative Networking

Simon Koo (University of San Diego, US)

Session 2B: Mobile Networks and Vehicular Networks

Chair: Ki-Hyung Kim, Ajou University, Korea

[2B-1] Subband Power Allocation for Tightly Coordinated Cellular Systems

DongHee Kim (JeonJu University, KR); Juho Lee (Samsung Electronics, KR); Hyeonwoo Lee (Samsung Electronics, KR)

[2B-2] An Efficient Call Delivery Algorithm in Hierarchical Cellular Networks

Sangheon Pack; Jaeyong An; Wonjun Lee (Korea University, KR)

[2B-3] A Novel Ant-based QoS Routing in Mobile ad-hoc networks

Hamideh Shokrani (North Tehran Branch, IAU, Tehran, Iran); Sam Jabbehdari (Computer Engineering Department, North Tehran Branch, IAU, Tehran, Iran)

[2B-4] A Clustering-based Multi-channel Vehicle-to-Vehicle (V2V) Communication System

Qing-An Zeng; Ranran Ding (University of Cincinnati, USA)

[2B-5] Investigation of Handoffs for IEEE 802.11 Networks in Vehicular Environment

Daehan Kwak (Infomation and Communications University, KR); Jeonghoon Mo (Yonsei University, KR); Moonsoo Kang (Chosun University, KR)

June 8, 2009 (Monday)

16:00-18:00

Session 3A: Ubiquitous Computing and Mobile Applications

Chair: Vincent Tam, University of Hong Kong, China

[3A-1] Convergent Design in Ubiquitous Computing
Zary Segall (University of Maryland, USA) (*Invited paper*)

[3A-2] An AGPS-Based Elderly Tracking System
Albert K. Wong (Hong Kong University of Science and Technology, HK); Kam-Tim Woo (Hong Kong University of Science and Technology, HK)

[3A-3] Evaluation of the Simple Mutual Authentication Protocol for ISO/IEC 14443 Smart Cards
Éric Renault (TELECOM & Management SudParis, FR); Selma Boumerdassi (Conservatoire National des Arts et Métiers, FR)

[3A-4] VitaCode: Electrocardiogram Representation for Biometric Cryptography in Body Area Networks
Jinyang Shi (Tsinghua University, CN); Kwok-yan Lam (Tsinghua University, CN)

[3A-5] An Autonomic Architecture to Manage Ubiquitous Computing Networks and Applications
John Strassner, Sven van der Meer, Brendan Jennings, Miguel Ponce de Leon (Waterford Institute of Technology, Waterford, Ireland)

Session 3B: Home Networks and Video Transmissions

Chair: Edith Ngai, Uppsala University, Sweden

[3B-1] Spanning Tree Based Topology Configuration for Multiple-Sink Wireless Sensor Networks
Jaewan Kim, Sungchang Lee (Korea Aerospace University, KR)

[3B-2] Cooperative Video Broadcasting in Heterogeneous Network Environment
King Man Ho (The Hong Kong Polytechnic University, HK)

[3B-3] A new IPTV channel zapping scheme for EPON
Chuan-Ching Sue; Chi-Yu Hsu; Yu-Shiang Su; Yung-Yi Shieh (National Cheng Kung University, TW)

[3B-4] Peer-to-Peer Scalable Video Streaming using RAPTOR Code
Beom Seok Choi; Doug Young Suh; Gwang-Hoon Park; Kyuheon Kim; Jung Ah Park (KyungHee university, KR)

[3B-5] Quality of Service (QoS) for Video Transmission
Shihyon Park (National Research Council, Canada) and John DeDorek (University of New Brunswick, Canada)

June 9, 2009 (Tuesday)

09:00-11:00

Session 4A: Cooperative and Opportunistic Networking

Chair: Suwon Park, Kwangwoon University, Korea

[4A-1] The Promise of Network Coding
Ziyu Shao and Shuo-Yen Robert Li (Chinese University of Hong Kong, CN) (*Invited paper*)

[4A-2] Impact of Altruism on Opportunistic Communications
Kuang Xu (University of Hong Kong, CN); Pan Hui (Deutsche Telekom Laboratories / TU-Berlin, DE); Victor Li (University of Hong Kong, CN); Jon Crowcroft (University of Cambridge, UK); Vito Latora (Università di Catania and INFN, IT); Pietro Lio (University of Cambridge, UK)

[4A-3] Detecting Dynamic Communities in Opportunistic Networks

Kuang Xu (The University of Hong Kong, HK); Guang-Hua Yang (The University of Hong Kong, HK); Victor Li (University of Hong Kong, CN); Shu-Yan Chan (University of Cambridge, UK)

[4A-4] Randomized Cooperative Precoding and Diversity Analysis over Doubly Selective Channels

Tae-Eung Sung (Cornell University, US); Adam Bojanczyk (Cornell University, US)

[4A-5] An Interference-free Multicast for Mesh Networks with Directional Antennas

Wen-Lin Yang (University of Tainan, TW); Cheng-Huang Tung (National Pingtung Institute of Commerce, TW)

Session 4B: Security

Chair: Kwok-Yan Lam, Tsinghua University, China

[4B-1] Self-healing Key Management Service for Mobile Ad Hoc Networks

Meng Ge, Kwok-Yan Lam (Tsinghua University, CN) (*Invited paper*)

[4B-2] d-key Dynamic Encryption - A Security Enhancement Protocol for Mobile Ad Hoc Network

Peter Yu (Texas A&M University, US); Udo Pooch (Texas A&M University, US)

[4B-3] Network Mobility Route Optimization with Certificate-based Authentication

Christian Bauer (German Aerospace Center (DLR), DE)

[4B-4] Cocyclic Jacket Matrix with Public Key Security Protocol for Wireless Rural Network

Jia Hou (Soochow University, CN)

[4B-5] Rule-Based Auditing System for Software Security Assurance

Moohun Lee (Hannam University, KR); Jeong Seok Kim (Hannam University, KR); Hyokyung Jang (Hannam University, KR); Bokman Jang (Hannam University, KR); Sungdo Park (Hannam University, KR); Bonghoi Kim (UBNC, KR); Eui-In Choi (Hannam University, KR)

June 9, 2009 (Tuesday)

11:20-13:00

Session 5A: WiFi and WiMAX

Chair: Jeng-Ji Huang, National Normal University, Taiwan

[5A-1] An Improved 802.11 DCF in a Hybrid Environment

Zong-Jhe Wu (National Taiwan Normal University, TW); Jeng-Ji Huang (National Taiwan Normal University, TW)

[5A-2] Behavioral Learning of Exposed Terminals in IEEE 802.11 Wireless Networks

Jun Cao; Jieun Yu; Kyunghwi Kim; Wonjun Lee (Korea University, KR)

[5A-3] Circulator-Based Collocated System for Coexistence of Wi-Fi and WiMAX Systems in Shared Bands

Donggun Kim (Kwangwoon University, KR); Suwon Park (Kwangwoon University, KR); Jongwoo Kim (Kwangwoon University, KR); Seung Hyong Rhee (Kwangwoon University, KR); Chul-Ho Kang (Kwangwoon University, KR); Kiyoun Han (Samsung Electronics Co., KR); Hyongoo Kang (Samsung Electronics Co., KR)

[5A-4] Use of Vestigial Power Management Bit within Wi-Fi Frame Structure of Access Point for Coexistence of Wi-Fi and WiMAX Systems in Shared Bands

Jongwoo Kim (Kwangwoon University, KR); Donggun Kim (Kwangwoon University, KR); Suwon Park (Kwangwoon University, KR); Seung Hyong Rhee (Kwangwoon University, KR); Kiyoun Han (Samsung Electronics Co., KR); Hyongoo Kang (Samsung Electronics Co., KR)

Session 5B: MAC and Scheduling

Chair: Ilyoung Chong, Hankuk University of Foreign Studies, Korea

[5B-1] Spatial Reuse Enhanced MAC in the Dense Wireless Networks

Sunheui Ryoo (Seoul National University, KR); Saewoong Bahk (Seoul National University, KR)

[5B-2] EMDOR: Emergency Message Dissemination with ACK-Overhearing based Retransmission

Dongseung Shin (Kyungpook National University, KR); Hongseok Yoo (Kyungpook National University, KR); Dongkyun Kim (Kyungpook National University, KR)

[5B-3] Multi-band OFDM and p-Persistent CSMA/CD-based Indoor Power Line Communication (PLC) Systems

Qing-An Zeng (University of Cincinnati, US); Quan Liu (University of Cincinnati, US)

[5B-4] Active Scheduling Algorithm for Intra-ONU Dynamic Bandwidth Allocation in Ethernet Passive Optical Networks

Chuan-Ching Sue (National Cheng Kung University, TW); Wei-Nung Sung (National Cheng Kung University, TW)

Venue

1) Welcome Reception (<http://www.hoteljen.com>)

Function Room 2/Floor, Jen Hotel

June 7, 18:00 - 21:00

2) Conference Room (<http://www.hku.hk/maps>)

- **Welcome and Keynote Speeches:** Lecture Theatre A (LTA), Chow Yei Ching Building (CB)
June 8, 09:00 - 10:40
- **Paper Track 1:** Lecture Theatre B (LTB), Chow Yei Ching Building (CB)
June 8, 11:00 - 18:00 and June 9, 09:00 - 18:00
- **Paper Track 2:** Lecture Theatre C (LTC), Chow Yei Ching Building (CB)
June 8, 11:00 - 18:00 and June 9, 09:00 - 18:00
- **Organizing Committee and TPC Room:** #602 Chow Yei Ching Building (CB)
June 8-9, 09:00 - 18:00

3) Conference Banquet

Kam Boat Chinese Cuisine (The Westwood)

June 8, 2009 18:30 - 20:30

4) Hotels (Reserved and Recommended)

- Jen Hotel (www.hoteljen.com) +852 2974-1234
- 3-star hotel
- Room rate: about HKD 620 daily including the breakfast.
- *Remark: Room charge is equal to room rate + 10% tax.

In Jen Hotel, how to reach to Conference venue?

From Jen Hotel, walk to the Westwood (a shopping centre), then take escalator to Pokfulam Road, then a short walk to HKU Chow Yei Ching Building (total about 15 minutes)

In Airport, how to reach to Jen Hotel?

- Jen Hotel is quite far from Airport Express Central Station. It is about 3 km. Suggest take a taxi (the fare should be around HKD 30 or USD 4.)
- One can also get to Jen Hotel from the airport by airport bus number A10, getting off at stop number 6 (Shek Tong Tsui Complex). The Jen Hotel is within 50 meters from the bus stop.
Please see information at the bottom half of the following web site:
<https://www.nwstbus.com.hk/routes/routeinfo.aspx?intLangID=1&searchtype=1&routenumber=A10&route=A10&routetype=D&company=5&exactMatch=yes>
Please see the photo of the stop at
<https://www.nwstbus.com.hk/routes/busstop.aspx?intLangID=1&stopid=001133&standid=001133A>
- Airport bus A12 also travels to the same area after getting out of the tunnel to the Hong Kong Island.
A12 is more frequent, but the bus stop is more than 200 meters from the Jen Hotel.

Hotel GEN



To and From the Airport

Hong Kong International Airport is located on Lantau Island. Driving time to Hotel Jen is 30 minutes. The Airport Express train departs the Main Arrivals Hall for Hong Kong Station in Central every 10 minutes. The one-way trip, which takes approximately 25 minutes, costs HKD100 (USD12.80). The public bus service from the Airport to Hotel Jen is A10. The 30-minute one-way journey costs HKD48 (USD6.15).

To and From Trade Fair Venues

The Hong Kong Convention and Exhibition Centre (HKCEC) is in Wanchai district on Hong Kong Island. Travelling time from the hotel is 15 minutes by taxi. A one-way journey costs approximately HKD50 (USD6.40). A free shuttle bus service between the hotel and HKCEC will be arranged for major trade fairs.

Around Town

By Taxi

Taxi fares in Hong Kong is very affordable compared to those of most other international cities. The flag fall is HKD15 (USD1.90) for the first two kilometres and HKD1.40 (USD0.20) for every 200 metres thereafter.

By MTR

The closest Mass Transit Railway (MTR) station to Hotel Jen is Sheung Wan. The fare to neighbouring Central/Hong Kong Station is HKD4 (USD0.50), one-way.

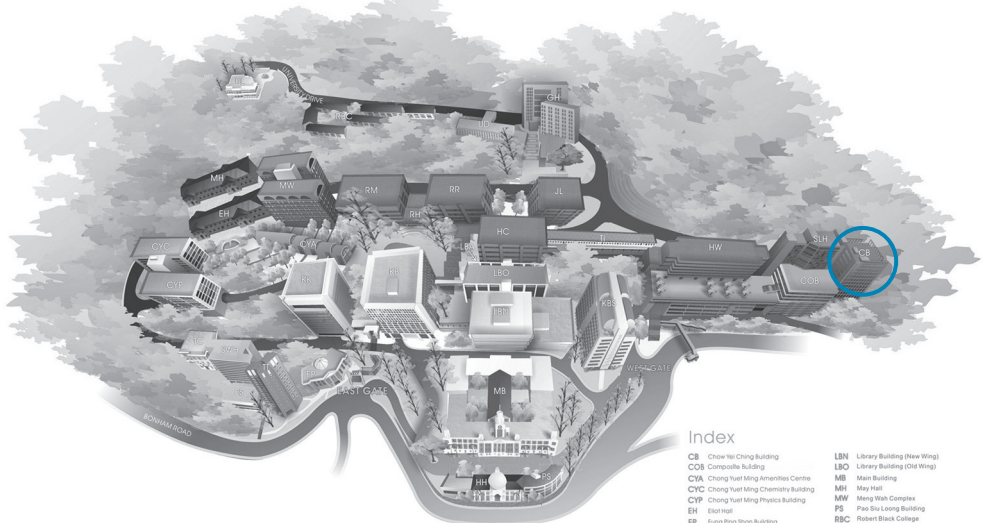
By Tram

Trams travel between Western District and Shau Kei Wan. The nearest tram stop to Hotel Jen is Whitty Street. The flat fare for a one-way trip is HKD2 (USD0.25).

By Hotel Shuttle

The hotel shuttle bus departs regularly (ask the concierge for a schedule) and stops at the Shun Tak Centre (Sheung Wan MTR Station, Macau ferry), Star Ferry, Hong Kong Station (Airport Express, International Finance Centre) and Admiralty Centre (Admiralty MTR Station).

The University of Hong Kong



Index

CB	Chow Yei Ching Building	LBN	Library Building (New Wing)
COB	Composite Building	LBO	Library Building (Old Wing)
CBA	Chong Yuet Ming Amnesties Centre	MB	Main Building
CYC	Chong Yuet Ming Chemistry Building	MH	May Hall
CH	East Hall	MW	Meng Wah Complex
FP	Fung Ping Shan Building	PS	Pan Shu Lung Building
FG	Fong Shu Chuan Amnesties Centre	RBC	Robert Black College
GH	Graduate House	RH	Repton Hoang Theatre
HC	Hui Oi Chow Science Building	RR	Run Run Shaw Building
HW	Hung Ying Ying Building	SKA	Simon K. Y. Lee Hall
HW	Hung Ying Ying Building	SWH	Swire Hall
JL	James Hsiung Lee Science Building	TC	Tung Chi Ning Building
KB	Knobles Building	TI	Technology Innovation and Incubation Building
KBS	Kadoorie Biological Sciences Building	TT	T.T. Tsui Building
KK	K.K. Leung Building	UD	University Drive No. 2
LBA	Library Annex	UL	University Lodge

The University of Hong Kong Main Campus

