

THE 10th INTERNATIONAL CONFERENCE on ADVANCED COMMUNICATION TECHNOLOGY

Innovations toward Future Networks and Services



Phoenix Park, Korea
Feb. 17-20, 2008

Host



**FINAL
PROGRAM**

Organizers



Sponsors





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MESSAGE

Message from the ICACT2008 General and Organizing Chairs!

On behalf of the ICACT2008 Organization and Operation Committee, I extend our warm welcome to the professionals in the field of communications from all over the world present at this grand meeting, namely International Conference on Advanced Communication Technology 2008. The ICACT2008 is a series of international academic event in the communications field, which all the experts from home and abroad gather to present their work, and share new ideas and visions for achieving the future telecommunication age. I hope that you will enjoy both the excellent technical content and recreational parts of the meeting.



The communication network is in a transition toward the era of ubiquitous networks and services received increasing attention over the last two or three years. No one can deny that technology has already permeated diverse aspects of human life. Mobile phones and the Internet - - the biggest success stories our industry has ever seen -- are only the beginning. The Ubiquitous Networks and Services will make it possible to connect anytime, anywhere, by anything and anyone. In a ubiquitous network, everyone and everything can be connected, and new innovations are expected which will completely change the current dimension of IT technology. ICACT2008 will provide the present and future of the ubiquitous networks and services. It will also give the basic characteristics, applications, issues and standardization of the ubiquitous networks and services.

In closing, I would like to express my sincere appreciation for the committee members and the referees for their contributions who have been helping us to prepare the event. I also sincerely thank all the authors for the papers on their precious technical achievements. I have no doubt of successful ICACT2008, and you will enjoy both the high quality of technical talks during the sessions and the beautiful landscapes of Phoenix Park.

Have a pleasant stay in Phoenix Park.

IEEE ICACT2008
Mr. Sungok Lee, General Chairman
Dr. Thomas ByeongNam Yoon, Organizing Chairman



MESSAGE

Message from the Technical Program Committee Chair

I would like to welcome to ICACT2008! It is a great pleasure to host this 10th ICACT conference in Korea which is one of the countries recently drawing much attention in the world arena of Broadband Internet. ICACT is an IEEE-sponsored annual conference providing an open forum for researchers, engineers, policy makers, network planners, and service providers in telecommunications. Extensive exchange of information will be provided on newly emerging systems, standards, regulations, services, and variety of applications in the area of telecommunications. For this 10th anniversary of the conference, ICACT2008, several tutorials and invited speeches have been prepared, and some other special events will be also presented.



Korea has richly benefited from deploying the high-speed Internet and Cellular networks providing various IT services all over the country. Approximately 91%, i.e. 14.7 millions, of Korean households use the high-speed Internet services, and 89%, i.e. 43 millions, of Korean people use the cellular mobile phones now. Recently, Korean Wireless Broadband(WiBro) and Digital Multimedia Broadcasting(DMB) technologies have been adopted as the recommendations in the International Telecommunications Union(ITU). ITU announced that Korea topped the list of countries in the Digital Opportunities Index(DOI) for 3 consecutive years.

The theme of ICACT2008 is “Innovations toward Future Networks and Services.” ICACT 2008 consists of a plenary session with two keynote speeches by remarkable world experts, a tutorial session with 3 interesting subjects, and 66 technical sessions including 8 invited speeches and 4 poster sessions. The TPC carefully selected a limited number of 437 papers from 27 countries to be presented in the technical sessions. We hope these technical sessions will help you obtain better insights into the latest trends and directions for the competitive communications and Internet markets. I am sure that ICACT2008 will provide an abundance of intelligent debate and information exchange, and a look at what is new in the field and technology.

Thank you everyone who has contributed to the technical program - the authors, the reviewers, and the technical program committee members for their terrific work in collecting and editing the papers. On behalf of the Technical Program Committee, I wish you a productive and enjoyable conference.

Dr. Hyeong-Ho Lee
ICACT2008 Technical Program Committee Chairman



OBJECTIVES

ICACT will provide an open forum for researchers, engineers, policy makers, network planners, and service providers in telecommunications. Extensive change of information will be provided on newly emerging systems, standards, services and variety of applications in the area of telecommunications.



COMMITTEE

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Dr. Eui K. Koh, New Skies Satellites, Singapore
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Dr. Seong Keun Lee, KT, Korea
Dr. Jin-Pyo Hong, HUFS, Korea

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Dr. Hee-Cheol Lee, Huree Univ. in Mongolia
Dr. Jin-Woong Cho, KETI, Korea
Dr. Hee-Chang Jung, NIA, Korea
Dr. Sudip Misra, IT-Architect, Canada
Prof. Jun Bi, Tsinghua University, China

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Dr. Tae-IL Kim, ETRI, Korea (Co-Chair)
Dr. Sun-Moo Kang, NIA, Korea
Dr. Jungmann Lee, IITA, Korea
Ms. Wonjung Choe, GIRI, Korea
Ms. Jessie Ko, u-work corp., Korea



SESSION OVERVIEW

Day 1 : February 17 (Sunday)							
15:00 ~ 18:00	Registration (2 nd Floor, Phoenix Park Hotel)						
Room	Emerald		Ruby		Topaz		
16:00 ~ 18:00	Tutorial A		Tutorial B		Tutorial C		
	3G Access Network Evolution towards IMT_Advanced system		IPTV Standardization and Technical Issues		L2/L3 Mobility Support for All IP Networks		
Day 2 : February 18 (Monday)							
08:00 ~ 18:00	Registration (2 nd Floor, Phoenix Park Hotel)						
Room	Emerald	Ruby I	Ruby II	Topaz I	Topaz II	Topaz III	Diamond I
09:00 ~ 10:20	Session 1A	Session 1B	Session 1C	Session 1D	Session 1E	Session 1F	-
	Wireless Communication Technology (I)	Mobile Communications (I)	Next Generation Network Technology (I)	RFID & USN Technologies (I)	Systems & Software Engineering (I)	Network Management, Operation and Maintenance (I)	-
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	Session 2A	Session 2B	Session 2C	Session 2D	Session 2E	Session 2F	Session 2G
	Wireless Communication Technology (II)	Mobile Communications (II)	Next Generation Network Technology (II)	RFID & USN Technologies (II)	Systems & Software Engineering (II)	Network Management, Operation and Maintenance (II)	Poster Session (I)
12:00 ~ 13:20	Lunch						
13:20 ~ 14:40	Session 3A	Session 3B	Session 3C	Session 3D	Session 3E	Session 3F	-
	Wireless Communication Technology (III)	Mobile Communications (III)	Next Generation Network Technology (III)	RFID & USN Technologies (III)	Telematics Technology (I)	Communication Network Topology and Planning (I)	-
14:40 ~ 15:00	Coffee Break						
15:00 ~ 16:20	Session 4A	Session 4B	Session 4C	Session 4D	Session 4E	Session 4F	Session 4G
	Wireless Communication Technology (IV)	Mobile Communications (IV)	Next Generation Network Technology (IV)	RFID & USN Technologies (IV)	Telematics Technology (II)	Communication Network Topology and Planning (II)	Poster Session (II)
16:20 ~ 16:40	Coffee Break						
16:40 ~ 18:00	Plenary Session (Phoenix Ballroom)						
18:30 ~ 20:30	Opening Ceremony and Banquet (Phoenix Ballroom)						



SESSION OVERVIEW

Day 3 : February 19 (Tuesday)							
08:00 ~ 18:00	Registration (2 nd Floor, Phoenix Park Hotel)						
Room	Emerald	Ruby I	Ruby II	Topaz I	Topaz II	Topaz III	Diamond I
09:00 ~ 10:20	Session 5A	Session 5B	Session 5C	Session 5D	Session 5E	Session 5F	-
	Wireless Communication Technology (V)	Mobile Communications (V)	Next Generation Network Technology (V)	RFID & USN Technologies (V)	Multimedia and Internet Systems and Services (I)	Information Security Technology (I)	-
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	Session 6A	Session 6B	Session 6C	Session 6D	Session 6E	Session 6F	Session 6G
	Wireless Communication Technology (VI)	Mobile Communications (VI)	Next Generation Network Technology (VI)	RFID & USN Technologies (VI)	Multimedia and Internet Systems and Services (II)	Information Security Technology (II)	Poster Session (III)
12:00 ~ 13:20	Lunch						
13:20 ~ 14:40	Session 7A	Session 7B	Session 7C	Session 7D	Session 7E	Session 7F	-
	Wireless Communication Technology (VII)	Mobile Communications (VII)	Mobile Internet (I)	RFID & USN Technologies (VII)	Multimedia and Internet Systems and Services (III)	Information Security Technology (III)	-
14:40 ~ 15:00	Coffee Break						
15:00 ~ 16:20	Session 8A	Session 8B	Session 8C	Session 8D	Session 8E	Session 8F	Session 8G
	Wireless Communication Technology (VIII)	Mobile Communications (VIII)	Mobile Internet (II)	Digital Broadcasting Technology (I)	Multimedia and Internet Systems and Services (IV)	Information Security Technology (IV)	Poster Session (IV)
16:20 ~ 16:40	Coffee Break						
16:40 ~ 18:00	Session 9A	Session 9B	Session 9C	Session 9D	Session 9E	Session 9F	-
	Wireless Communication Technology (IX)	IT Service Technology	Mobile Internet (III)	Digital Broadcasting Technology (II)	Multimedia and Internet Systems and Services (V)	Information Security Technology (V)	-



SESSION OVERVIEW

Day 4 : February 20 (Wednesday)							
08:00 ~ 12:00	Registration (2 nd Floor, Phoenix Park Hotel)						
Room	Emerald	Ruby I	Ruby II	Topaz I	Topaz II	Topaz III	Diamond I
09:00 ~ 10:20	Session 10A	Session 10B	Session 10C	Session 10D	Session 10E	Session 10F	-
	Wireless Communication Technology (X)	Digital Home Technology (I)	E-Commerce and M-Commerce (I)	Optical Networking Technology (I)	Web Technology (I)	Distributed Computing Technologies (I)	-
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	Session 11A	Session 11B	Session 11C	Session 11D	Session 11E	Session 11F	-
	Wireless Communication Technology (XI)	Digital Home Technology (II)	E-Commerce and M-Commerce (II)	Optical Networking Technology (II)	Web Technology (II)	Distributed Computing Technologies (II)	-

Plenary Session 16:40 ~ 18:00 Feb. 18 (Mon.) Phoenix Ballroom
 Chair : Dr. Hyeong-Ho Lee (ICACT2008 TPC Chair)

Keynote Speech 1: R&D for the Next Generation Networks & FTTH in NTT

Speaker : Mr. Hiromichi Shinohara
 (Associate Senior Vice President of NTT, Japan)

NTT is now constructing the next generation network (NGN) while promoting FTTH for broadband access. NTT has two objectives in constructing the NGN, one is to reduce both OPEX and CAPEX and the other one is to increase profit by promoting broadband & ubiquitous service and by expanding telecom market. In Japan, FTTH market is growing very rapidly. The number of FTTH users surpassed 10 million in September 2007. The number of FTTH users in NTT has already outstripped the one of ADSL. This presentation introduces R&D activities for NGN and FTTH in NTT. Firstly, it will explain the circumstances surrounding NTT and give an overview of the Japanese FTTH market. Key technologies for realizing the NGN will be addressed. It will describe FTTH services that NTT is currently offering, typical applications on FTTH. Lessons learned from actual FTTH deployment and key technologies that enabled massive FTTH rollout will be also discussed. Technologies required for entering full-scale FTTH era will be also discussed.



Keynote Speech 2: IT Mega-Trend and KT Vision

Speaker : Mr. Sanghong Lee
 (Senior Vice President of KT, Korea)

Whatever industries always have the choice of 'Challenges' and 'Chances'. All the management has been forced to choose the business direction, and were wrong decision made without catching the mega-trend, the one hundred year old company could disappear. The change of IT trend is as fast as any other industry parts, therefore the survival and sustainable growth of IT company is not easy. In this speech, the main trends in IT industry will be presented and the status of IT business including WiBro, FTTH, IPTV in KT, and future vision of KT will be also explained.



Tutorial Session 16:00 ~ 18:00 Feb. 17 (Sun.)

Tutorial A : 3G Access Network Evolution toward IMT_Advanced Systems Room Emerald
Speaker : Dr. Pyeong-jung Song
 (Electronics and Telecommunications Research Institute, Korea)

Currently, the big events such that the candidate frequency spectrum for IMT-Advanced was announced, and 3GPP, 3GPP2, and mobile WiMAX groups have almost completed their draft standards for the evolved wireless telecommunication systems, lead us to have great interest in IMT-Advanced technology. In this talk, we introduce technical requirements, network functional architecture, and key issues of IMT-Advanced systems. Additionally, we discuss network architecture and core technologies including call control scheme, mobility management, MBMS, and Femto Cell technologies of 3GPP LTE (Long-Term Evolution) systems, a strong candidate of IMT-Advanced systems.



Tutorial B : IPTV Standardization and Technical Issues Room Ruby
Speaker : Prof. Junkyun Choi
 (Information and Communications University, Korea)

This tutorial explains the standardization activities of IPTV Focus Group under the ITU-T. First of all, it introduces the IPTV overview and market demand. It includes some technical details for IPTV services: service requirements, architecture, QoS/QoE, security, control protocol, STB and middleware. It reviews the main results of the IPTV Focus Group activities. Also, the outstanding technical issues for evolution of future IPTV services will be raised.



Tutorial C : L2/L3 Mobility Support for All IP Networks Room Topaz
Speaker : Prof. Chongkwon Kim
 (Seoul National University, Korea)

Future mobile networks are expected to adopt All IP technologies and we need to develop new mobility management schemes that replace conventional HLR/VLR based mobility management technologies. Mobility management in the Internet has been the active research and standardization topic during last 10 years. An exemplary protocol is MIP. However, MIP and many variations of MIP such as HMIP and FMIP were designed for portability and cannot support seamless mobility. In this tutorial, we will discuss many protocols that have been proposed for mobility support in the Internet. We will emphasize several recent protocols such as Proxy MIP, L2 support schemes and network-aided mobility management schemes.



Invited Speech 1: IP-USN as a next generation Infrastructure

Session : 1C
 Speaker : Dr. Sunmoo Kang
 (National Information Society Agency, Korea)

In ubiquitous society, sensor network related business will be broadly applicable in every day life. We define this kind of trends as a u-life includes u-health, u-defence, u-safety, u-something and all of these, the most important and integrated meaning will be probably covered by u-City. IP-USN infrastructure will be an essential common infrastructure in this u-something, which is now becoming hot issues in many international standard bodies. Korea has several core technologies. in IP-USN infrastructure, that is, a tiny OS, NanoQ plus developed in ETRI, Multiple wireless access technology developed by Casuh, and 6LoWPAN technology, developed by many domestic companies. We introduce IP-USN infrastructure and it's concepts and business model.


Invited Speech 2: IPv6 Pilot Project Experience in Korea

Session : 2C
 Speaker : Hyongsoon Kim
 (National Information Society Agency, Korea)

National Information Society Agency (NIA) successfully finished IPv6 Pilot projects from 2004 to 2007. For this project, we set up IPv6 service providing network with IPv6 portal, 6KANet and 6NGIX. Each system had essential functionality to hold IPv6 early adopters and provide IPv6 services, and connectivity to commercially available IPv6 service providers in the world. This paper includes brief summarizations of various pilot projects NIA performed during the time.


Invited Speech 3: MIH and IP Mobility Technologies for Multiple Access Network Service

Session : 3B
 Speaker : Junghoon Jee
 (Electronics and Telecommunications Research Institute, Korea)

This talk discusses how the IEEE 802.21's Media Independent Handover services can be utilized for the IP mobility management protocols to support the seamless handovers among heterogeneous networks. The multi-mode terminal consideration, the extensions of the mobility management protocols for the multi-mode terminals and the way to integrate the mobility management protocols with the Media Independent Handover procedures are also shown.



Invited Speech 4: Korea Advanced Research Network(KOREN) for Future Internet Testbed

Session : 3C

Speaker : Sangkyun Kim

(National Information Society Agency, Korea)

Future Internet is an emerging future technology to overcome defections in current Internet towards ubiquitous society, convergence and fusion networks. KOREN is non-commercial R&E network for supporting network functions to various Universities, Research institutions and public sectors. We expand the function of KOREN for future advanced technology, such as ubiquitous sensor networks, mobile wireless networks, and long term Future Internet technology research. There are many research activities actively on going using KOREN with international cooperative parties as a federative testbed projects.


Invited Speech 5: Algorithm Development for Intelligence Vehicle

Session : 3E

Speaker : Prof. Yousik Hong

(Sang-Ji University, Korea)

Future vehicle must be both driver-friendly and able to adapt to changing road conditions. What is needed is a system that adapts to both the driver and environment for maximum convenience and safety. In order to solve these problems, this paper proposes an algorithm for development of smart vehicles. In this paper, it ran simulations to compare the performance of a normal car width that of an algorithm-equipped vehicle in a potential accident. Through the computer simulation, It proved the algorithm-equipped vehicle automatically adjusted the mirrors and seat for maximum comfort and driver awareness of the environment.


Invited Speech 6: Mobile Web 2.0 Technologies

Session : 4B

Speaker : Dr. Seungyun Lee

(Electronics and Telecommunications Research Institute, Korea)

Recently, Web 2.0 Trend, one of the Pragmatic Web Application Trends, derives the 2nd golden age of World Wide Web to give a great influence on the Web industry. The Web 2.0 trend is not only to influence the Wired Internet industry but also the Mobile industry. So, we reviewed a concept of the Mobile Web 2.0 will be defined, and the result of investigation on core technologies and research trends on the Mobile Web 2.0 will be presented, and finally, the required technologies to get the international competitive powers on the age of Mobile Web 2.0 will be reviewed.

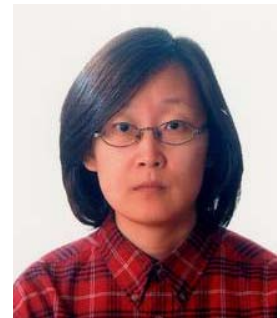


Invited Speech 7: USN Standard and Technology
Session : 7D
Speaker : Dr. Eunsook Kim
(Electronics and Telecommunications Research Institute, Korea)

Ubiquitous Sensor Networks (USN) are an emerging business area and now used in many civilian application areas, including environmental and habitat monitoring, healthcare applications, home automation, and traffic control, leading to an advanced e-Life society. It brings many study areas in access network management, middleware, and application services, to provide heterogeneity, mobility, self-configured robust communication signals, security in signaling, operation and management, middle-level primitives related to network and service management. A great number of research efforts on wireless sensor networks were designed for specific application purposes. But the necessity to build a general-purpose of standard technology has risen as the use of sensor networks has spread into the broad area of pervasive networking. This paper will describe the necessary standardization area for USN and explain the technical requirements for the standard work.


Invited Speech 8: Dynamic Adaptation of SVC using MPEG-21 DIA for QoS-Enabled Streaming
Session : 8D
Speaker : Dr. Jungwon Kang
(Electronics and Telecommunications Research Institute, Korea)

For seamless streaming of multimedia contents that ensures Quality of Service (QoS) over heterogeneous networks, it is very important to adapt multimedia according to usage environments such as network characteristics, terminal capabilities, and user preferences. Recently, Scalable Video Coding (SVC) that supports scalabilities in spatial/temporal/quality domain and real-time bitstream adaptation has been developed within joint video team (JVT) between the ITU-T video coding experts group (VCEG) and the ISO/IEC moving picture experts group (MPEG) as an extension of H.264/AVC. In this paper, we propose a flexible and low-complexity adaptation scheme of SVC using MPEG-21 Digital Item Adaptation (DIA) that can provide optimal adaptation in heterogeneous networks. The proposed scheme is as follows: First, usage environments such as network conditions, terminal capabilities and user preferences are described by using Usage Environment (UED) tool defined in the MPEG-21 DIA and the relations among feasible adaptation operation, resource constraint, and utility are described by using the AdaptationQoS tool. Second, an Adaptation Decision Taking Engine (ADTE) decides the optimal spatial/temporal/quality adaptation operation with the information from the UED tool and AdatationQoS tool. Then, according to the decision by the ADTE, a SVC dynamic extractor drops or crops Network Abstraction Layer (NAL) units by examining only NAL header (4 bytes). In a framework for adaptation, delivery, and consumption of SVC, experiments of the proposed scheme were simulated with the constraint that network condition, terminal capability, and user preference are time-varying. In addition, experiments for dynamic adaptation of SVC were performed when the session is moved from one device to another device. The experimental results show robustness and efficiency in dynamic adaptation of SVC.





TECHNICAL SESSIONS

Day 2 : February 18 (Monday)

Session 1 09:00 ~ 10:20

Session 1A: Wireless Communication Technology (I)

Room Emerald

Chair: Mohamed Moustafa Abd-El Aziz (Ain Shams University, Egypt)

1. Channel Prediction by Doppler Frequency Estimation with Simplified AR Modeling, Yun-Ho Lee (Georgia Institute of Technology, U.S.A.)
2. Reliable Data Dissemination with Diversity Multi-Hop Protocol for Wireless Sensors Network, Salman Khan, Eui-Nam Huh (Kyung Hee University, Korea), Imran Rao (The University of Melbourne, Australia)
3. Antenna Scaling of Multi-Antenna Gaussian Broadcast Channels, Hyung-Tae Kim, Sung Hoon Lim, Sang-Woon Jeon, Sae-Young Chung (KAIST, Korea)
4. Saturation Throughput Affected by Th Ratio of Direct-to-Diffuse Signal Power in The Wireless LAN, Ha Cheol Lee, Young Joon Byun, Eric Yihching Tao (California State University, U.S.A.)
5. Generalized Normalized Gradient Descent Algorithm Based on Estimated a Posteriori Error, Minsung Hur, Jin Yong Choi, Jong-Seob Baek, JongSoo Seo (Yonsei University, Korea)

Session 1B: Mobile Communications (I)

Room Ruby I

Chair: Seong-Soon Joo (ETRI, Korea)

1. Analysis of Handoff Algorithm for Multihop Cellular Networks, Dongkyu Kim, Hano Wang, Jemin Lee, Daesik Hong (Yonsei University, Korea)
2. Performance Analysis of a DS-CDMA wireless mobile communication system with STBC, Debashis Chandra Saha, Satya P. Majumder (Bangladesh University of Engineering & Technology, Bangladesh)
3. A Mobility Management Protocol for Multi-hop Relay Networks, Hyeonchae Yang, Hyunjeong Lee, Meejeong Lee (Ewha Womans University, Korea)
4. Dynamic Prediction of Data Validity for Mobile Databases, Niu Jianwei, Zhang Xiaodan, He Rui (Beihang University, China), Ma Jian, Chen Canfeng (Nokia Research Center, China)
5. A Proposal for Reducing Handover Latency and Improving Route Optimization in Proxy Mobile IPv6, Brownson Obaridoa Obele, June-Koo Rhee, Minho Kang (ICU, Korea)



TECHNICAL SESSIONS

Session 1C: Next Generation Network Technology (I) Chair: Younghee Lee (Information and Communications University, Korea)	Room Ruby II
<ol style="list-style-type: none">1. (Invited Speech) IP-USN as a Next Generation Infrastructure, Sunmoo Kang (National Information Society Agency, Korea)2. Link-based Service Customization for NGN, Vu Truong Thanh, Yoshiyori Urano (Waseda University, Japan)3. A Study for Improving Handover Feasibility on Multi-Media Service in Convergence Networks, Myoung Ju Yu, Jong Min Lee, Dong Geun Yoon, Young Hun Yoo, Seong Gon Choi (Chungbuk National University, Korea)4. UCEN: User Centric Enterprise Network, Rui Tu, Jinshu Su, Zhaowei Meng, Feng Zhao (National University of Defense Technology, China)	
Session 1D: RFID & USN Technologies (I) Chair: Hongmin Lee (Kyonggi University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. A Mobile Agent Based LEACH in Wireless Sensor Networks, Jeong Hee-Jin, Nam Choon-Sung, Jeong Yi-Seok, Shin Dong-Ryeol (Sungkyunkwan University, Korea)2. u-Manufacturing Model & Application System using RFID/USN, Mobile and Internet Technology, Suk Keun Cha (ACS Co., Ltd., Korea), Joon Yeob Song, Dong Hoon Kim (Korea Institute of Machinery & Materials, Korea), Jun Jae Yoo (Korea Electronics Technology Institute, Korea)3. Quantifying Information Leakage in RFID Systems, Xu Huang (University of Canberra, Australia)4. Adaptive Channel Hopping Algorithm for Reader Anti-collision in RFID Systems, Chiyoung Ok (Ajou University, Korea), ChengHao Quan, HeeSook Mo, KilYoung Choi (ETRI, Korea), Chaewoo Lee (Ajou University, Korea)5. Architecture Model of Real-time Monitoring Service Based on Wireless Sensor Networks, Do-Hyeun Kim (Cheju National University, Korea), Beongku An (Hongik University, Jochiwon, Korea), Nam-Soo Kim (Cheongju University, Korea)	



TECHNICAL SESSIONS

Session 1E: Systems & Software Engineering(I) Chair: Chang-Won AHN (ETRI, Korea)	Room Topaz II
<ol style="list-style-type: none">1. Domain Specific Code Generation For Linux Device Driver, Jung Choon Park (University of Science and Technology, Korea), Yong Hoon Choi, Taeho Kim (ETRI, Korea)2. APROV: Another Program Verifier for Embedded Linux Device Drivers, Oukseh Lee, Seung-Cheol Jung, Hyo-Cheon Ahn (Hanyang University, Korea), Taeho Kim (ETRI, Korea)3. Users' Midmap in Software Design – Compare with IS Use Intention and Success Model, Chwen-Yea Lin (Tatung Institute of Commerce and Technology, Taiwan), Kwoting Fanga (National Yunlin University of Science and Technology, Taiwan)4. Performance Evaluation of Gigabit Ethernet Interfaces, Giljae Lee, Yoonjoo Kwon, Kwangjong Cho, Woojin Seok, Jaiseung Kwak (Korea Institute of Science and Technology Information, Korea)5. Architecture Patterns for Mobile Games Product Lines, Hojin Cho, Jin-Seok Yang (POSTECH, Korea)	
Session 1F: Network Management, Operation and Maintenance (I) Chair: Byeong-Yun Chang (KT, Korea)	Room Topaz III
<ol style="list-style-type: none">1. A Study on Backup Route Setup Scheme for Ad Hoc Networks, Se-Won Jung, Jin-Chul Choi, Chae-Woo Lee (Ajou University, Korea)2. A Novel Bandwidth Estimation Model for e-Government Communication Network, Eun-Jung Lee, Young-Tae Han, Hong-Shik Park (ICU, Korea), Yong-Suk Lee (National Computing and Information resources Administration, Korea)3. Secure Group Communication in Mobile Wireless Sensor Networks, Nahar Sultana, Eui-Nam Huh (Kyung Hee University, Korea)4. Experimental QoS test of Medical Data over Wired and Wireless Networks, Jae-Min Lee, Jong-Hyouk Lee, Tai-Myoung Chung (Sungkyunkwan University, Korea)5. A Study on Telecommunication Power Operations Management , Byeong-Yun Chang, Seongjun Ko, Daniel Wonkyu Hong, Byungdeok Chung (KT Corporation, Korea)	
Coffee Break 10:20 ~ 10:40	



TECHNICAL SESSIONS

Session 2 10:40 ~ 12:00	
Session 2A: Wireless Communication Technology (II) Chair: Wanming Luo (Computer Network Information Center, CAS, China)	Room Emerald
<ol style="list-style-type: none"> 1. Performance Analysis of a Novel Cooperative Transmission Scheme in Wireless Networks, Ho Van Khuong (McGill University, Canada), Pham Hong Lien (Ton Duc Thang University, Vietnam), Hyung Yun Kong (University of Ulsan, Korea) 2. Performance Analysis of an Angle Differential-QAM Scheme for Resolving Phase Ambiguity, Jeng-Kuang Hwang, Yu-Lun Chiu (Yuan-Ze University, Taiwan) 3. Operation Range Estimation of Reed-Solomon Coded SC-FDE System in 60-GHz WPANs, Tuncer Baykas, Ming Lei, Chin-Sean Sum, Ryuhei Funada, Yoshinori Nishiguchi, Ryota Kimura, Jun-Yi Wang, Azizur Rahman, Hiroshi Harada, Shuzo Kato (NICT, Japan) 4. A Direct IQ-Regeneration Technique for Five-Port Digital Receiver, Sang-Yub Lee (Samsung Electro-Mechanics, Korea), Hak-Sun Kim (Hanbat National University, Korea) 5. An Enhanced Service Differentiation Mechanism for QoS Provisioning in IEEE 802.11e Wireless Networks, Wanming Luo, Baoping Yan, Xiaoxong Li, Wei Mao (Chinese Academy of Sciences, China) 	
Session 2B: Mobile Communications (II) Chair: Seung-Hoon Hwang (Dongguk University, Korea)	Room Ruby I
<ol style="list-style-type: none"> 1. Group-based Pilot Design Method in Mobile OFDMA Systems, Soobin Lee, Jae Y. Lee, Hwang S. Lee (KAIST, Korea) 2. Multiple Interface/Prefix Selection for Virtual Mobile Networks, Chulhyun Park, Nakjung Choi (Seoul National University, Korea), Eunkyong Paik (KT, Korea), Taekyoung Kwon, Yanghee Choi (Seoul National University, Korea) 3. Probabilistic Delay Routing for Delay Tolerant Networks, Lei Yin (Beijing Institute of Technology, China), Hui-mei Lu, Yuan-da Cao (Beijing Institute of Technology, China) 4. Compatibility Analysis between Wideband Code Division Multiple Access (WCDMA) Service and Global Mobile Personal Communication by Satellite (GMPCS), Yong-il Oh (Kwangwoon University, Korea), Chung Sang Lyu, Seong Teak Oh (Radio Research Laboratory, Korea), Jin Young Kim (Kwangwoon University, Korea) 5. An Efficient Downlink Automatic Gain Control Algorithm before Synchronization in WiBro AT (Access Terminal), Yong Su Lee, Youngil Kim (ETRI, Korea), Whan Woo Kim (Chungnam National University, Korea) 	



TECHNICAL SESSIONS

Session 2C: Next Generation Network Technology (II) Chair: Younghee Lee (Information and Communications University, Korea)	Room Ruby II
<ol style="list-style-type: none">1. (Invited Speech) IPv6 Pilot Project Experience in Korea, Hyongsoon Kim (National Information Society Agency, Korea)2. An NSIS based Resource Reservation Protocol for Hose Model VPN Service, Haesun Byun, Meejeong Lee (Ewha Womans University, Korea)3. Routing Solutions for Future Dynamic Networks, Auristela Silva, Tarciana Silva, Reinaldo Gomes, Luciana Oliveira, Igor Cananéa, Djamel Sadok (Federal University of Pernambuco, Brazil), Martin Johnsson (Ericsson Research, Sweden)4. Multicast Architecture over Next Generation Network, Jong Min Lee, Juyoung Park, Shin-Gak Kang(ETRI, Korea), Jun Kyun Choi (ICU, Korea)	
Session 2D: RFID & USN Technologies (II) Chair: Hong min Lee (Kyonggi University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. RFID Tag Anti-Collision Protocol: Query Tree with Reversed IDs, Jung-Sik Cho, Jea-Dong Shin, Sung Kwon Kim (Chung-Ang University, Korea)2. Simulation Study of Cluster Based Data Dissemination for Wireless Sensor Networks with Mobile Sinks, Canfeng Chen, Jian Ma, Jyri Salomaa (Nokia Research Center, Beijing SRC, China)3. Configuration of Randomly Deployed WSN with the Estimation of Node Density , Seong-Soon Joo, Sang-Joon Park, Cheol-Sig Pyo, Jong-Suk Chae (ETRI, Korea)4. System on Chip for Sensor Network Security: A Proposed Architecture, Kalpana Sharma, Vikash Varun, Rohit Kumar (Sikkim Manipal University, India)5. A Design of e-ID Authentication Protocol in Gen2 Environment, Yong-Sik Choi, Soo Han, Seung Ho Shin (University of Incheon, Korea)	



TECHNICAL SESSIONS

Session 2E: Systems & Software Engineering (II) Chair: Byoung Whi Kim (ETRI, Korea)	Room Topaz II
<ol style="list-style-type: none">1. Applying Dataflow Analysis to Detecting Software Vulnerability, Hyunha Kim, Tae-Hyoung Choi, Seung-Cheol Jung, Hyoung-Cheol Kim, Oukseh Lee, Kyung-Goo Doh (Hanyang University, Korea)2. Practical S/W Component Quality Evaluation Model, Yoonjung Choi, Sungwook Lee, Houng Song, Jingoo Park, SunHee Kim (Samsung Electronics Co. LTD., Korea)3. Homogeneous Markov Chain for Modeling Emotional Interactions, Dong-mei Yu, Yang Tang, Jian' an Fang, Yu-ping Zhou, Mei-yu Sun (Donghua University, China)4. Internet Protocol Engine in TCP/IP Offloading Engine, Dae Won Kim, Won Ok Kwon, Kyoung Park, Seong Woon Kim (ETRI, Korea)5. Train Auto Control System based on OSGi, Yi-Seok Jeong, Choon-Sung Nam, Hee-Jin Jeong, Dong-Ryeol Shin (Sungkyunkwan University, Korea)	
Session 2F: Network Management, Operation and Maintenance (II) Chair: Vladislav Pyattaev (FSUE LONIIS, Russia)	Room Topaz III
<ol style="list-style-type: none">1. u-MoDEM : ubiquitous Mobile Device Environment Manager based on OMA-DM, Hun-Jung Lim, Seon-Ho Park, Dong-young Lee, Tai-Myoung Chung (Sungkyunkwan University, Korea)2. Study of Re-Provisioning Mechanism for Dynamic Traffic in WDM Optical Networks, Chen-Shie Ho (Oriental Institute of Technology, Taiwan), Chang Woei (VaNung University, Taiwan)3. The Active Queue Scheduling Method for the QoS of the WiBro Service, Hyun Jong Kim, Jong Chan Kim (Chungbuk National University ,Korea), Seong Gon Choi, Jae Pil Song, Hyeon Suk Lee (KT, Korea)4. A Study on a Resource Allocation Algorithm for On-demand Data Center Services, Motomitsu Adachi, Takuro Hiraoka, Naohisa Komatsu (Waseda University, Japan)5. An Efficient Mechanism for Network Management in Wireless Mesh Network, Muhammad Shoaib Siddiqui, Syed Obaid Amin, Choong Seon Hong (Kyung Hee University, Korea)	



TECHNICAL SESSIONS

Session 2G: Poster Session (I)

Room Diamond I

1. A Map Matching Algorithm for Intersections based on Floating Car Data, Wenjie Liao, Weifeng Lv, Tongyu Zhu, DongDong Wu (Beihang University, China)
2. A Cellular-Based Routing Algorithm for Ad-Hoc Wireless Networks, Keyvan RahimiZadeh, Mehdi Dehghan, Seyed Ali Hosseini-zhad (Amirkabir University of Technology, Iran), Abbas Dehghani (Isfahan University, Iran)
3. Adaptive Quorum: A Traffic Aware Power Saving Mechanism for Multi-hop Mobile Ad-hoc Networks, Seyed Ali Hosseini-zhad, Golnoosh Saeedi Nejad, Keyvan Rahimizadeh, Mehdi Dehghan (Amirkabir University of Technology, Iran)
4. Design and Implementation of Smartphone Edition based on Embedded Linux, Do-Hyung Kim, Min-Hong Yun, Sun-Ja Kim (ETRI, Korea), Cheol-Hoon Lee (Chungnam National University, Korea)
5. A New Handover Scheme for Seamless Mobility in Heterogeneous Networks, Jong Min Lee, Han Gyor Kim, Younghun Yoo, Seong Gon Choi (Chungbuk National University, Korea), Joo-Sang Park, Yong-Jun Lee (ETRI, Korea)
6. Robust Speaker Verification Based on Multi Stage Vector Quantization of MFCC Parameters on Narrow Bandwidth Channels, M. Mehdi Homayounpour, Iman Rezaian (Amirkabir University of Technology, Iran)
7. Considerations of Multi Network in Cognitive Network , Yong-Geun Hong, Jung-Soo Park (ETRI, Korea)
8. A PCRN Discovery Mechanism for Pre-Resource Reservation, Sunyoung Kim, Heasun Byun, Meejeong Lee (Ewha Womans University, Korea)
9. Experience of USN MAC based on 424MHz Band IEEE 802.15.4, Kyeseon Lee, Nae-Su Kim (ETRI, Korea), Dae-Young Kim (CNU, Korea)
10. Improved ITU-P.563 Non-Intrusive Speech Quality Assessment Method For Covering VOIP Conditions, Mohammad Abareghi, M. Mehdi Homayounpour, Mehdi Dehghan, Anahita Davoodi (Amirkabir University of Technology, Iran)
11. Iterative Decoding for Low-Density Parity-Check Lattices, Young-Seob Choi, Ihn-Jung Baik, Sae-Young Chung (KAIST, Korea)
12. Development Process of Mobile Application SW Based on Agile Methodology, Yang-Jae Jeong, Ji-Hyeon Lee, Gyu-Sang Shin (ETRI, Korea)
13. Quality Attribute Driven Architecture Design and Evaluation for Embedded Operating System, Jihyun Lee, Gyu-Sang Shin (ETRI, Korea)
14. A Modified Iterative Water-filling Algorithm with Per-iteration Power Normalization in Multiuser MMSE-Precoded MIMO Systems, Min Lee, Seong Keun Oh (Ajou University, Korea)
15. Performance Degradation of a MIMO-OFDM Receiver due to Inter-carrier and Co-antenna Interference, SeungWon Kang, KyooHyun Kim, KyungHi Chang (Inha University, Korea)
16. Methodology for Verifying the Load Limit Point and Bottle-neck of a Game Server using the Large Scale Virtual Clients, Ju Young Kim, Jin Ryong Kim, Chang Joon Park (ETRI, Korea)



TECHNICAL SESSIONS

Session 2G: Poster Session (I)

Room Diamond I

17. Automatic Modulation Recognition of Digital Signals using Wavelet Features and SVM, Cheol-Sun Park, Jun-Ho Choi, Sun-Phil Nah, Won Jang (Agency for Defense Development, Korea), Dae Young Kim (Chungnam Nat'l Univ., Korea)
18. Performance of Ranging Channel Accesses in WiBro Systems, Young-Keum Song, Dongwoo Kim (Hanyang University, Korea)
19. A Proposal of the National Disaster Emergency Satellite Communications Networking, Kyung Soo Choi, Seong Pal Lee (ETRI, Korea)
20. Method and Implementation for Consistency Verification of DEVS Model against User Requirement, Do Hyung Kim (Agency for Defense Development, Korea)
21. Distinctive Traffic Characteristics of Pure and Game P2P Applications, YoungTae Han, HongShik Park (ICU, Korea)
22. Soft QoS-based CAC Scheme for WCDMA Femtocell Networks, Sang Bum Kang, Young Min Seo, Young Ki Lee, Mostafa Zaman Chowdhury, Won Sik Ko, Mohd Noor Irlam, Sun Woong Choi, Yeong Min Jang (Kookmin University, Korea)
23. The Implementation of the IEEE 802.15.4a MAC and Location Application System for Low Rate WPAN, Cheolhyo Lee, Jae-Young Kim (ETRI, Korea)
24. Analysis of Technical Conditions for Sharing Frequency Spectrum, Taekjin Hwang (ETRI, Korea)
25. A New Efficient 16-QAM Mapping Approach for Iterative Receiver using Turbo Codes over SISO Channel, Sangbong Oh, Akmal Fayziyev, Jongsub Cha, Jeongseok Ha (ICU, Korea), Seong Rag Kim (ETRI, Korea)
26. Performance Analysis of an Overlap-Based CSS System, Taeung Yoon, Sangho Ahn (Sungkyunkwan University, Korea), Sun Yong Kim (Konkuk University, Korea), Seokho Yoon (Sungkyunkwan University, Korea)
27. Collaborative Spectrum Sensing using Energy Detector in Multiple Antenna System, Jong-Hwan Lee, Jun-Ho Baek, Seung-Hoon Hwang (Dongguk University, Korea)
28. The Comparison of T/RX Switch Performance for UWB Communication, Seung-Sik Lee, Bong-Hyuk Park, Seung-hyun Jang, Sang-sung Choi (ETRI, Korea)

Lunch 12:00 ~ 13:20



TECHNICAL SESSIONS

Session 3 13:20 ~ 14:40	
Session 3A: Wireless Communication Technology (III) Chair: Tae-young Han (Chungbuk National University, Korea)	Room Emerald
<ol style="list-style-type: none">1. Semi-blind Channel Estimation based on Receiver Diversity, Kora Ahmed Dooguy (Ecole Supérieure Multinationale des Télécommunications, SENEGAL), Cances Jean-Pierre, Meghdadi Vahid (Groupe d'Etudes des Systèmes de Télécommunications de l'ENSIL, France)2. Exact Analysis of Optimum Combining with Interference and Noise in Non-Gaussian Fading Channels, Termpong Soithong, Chirasil Chayawan (King Mongkut university of Technology Thonburi, Thailand)3. 0.5μ CMOS 2.4 GHz RF-Switch for Wireless Communications, Mekanand Piya, Prawatrungruang Puripath, Eungdamrong Duangrat (Thammasat University, Thailand)4. Derivation of the Maximum Capacity Using the Jacobian Transformation Method for Systems Employing Adaptive Cooperation, Jonghyun Park, Jaewon Kim, Euseok Song, Wonjin Sung (Sogang University, Korea)5. Proposal of a Reaction-Diffusion based Congestion Control Method for Wireless Mesh Networks, Atsushi Yoshida, Takao Yamaguchi (Matsushita Electric Industrial Co., Ltd., Japan), Naoki Wakamiya, Masayuki Murata (Osaka University, Japan)	
Session 3B: Mobile Communications (III) Chair: Seung-Hoon Hwang (Dongguk University, Korea)	Room Ruby I
<ol style="list-style-type: none">1. (Invited Speech) MIH and IP Mobility Technologies for Multiple Access Network Service, Junhoon Jee (Electronics and Telecommunications Research Institute, Korea)2. Improving Inter-Sector Handover User Throughput by Using Partial Reuse and Softer Handover in 3GPP LTE Downlink, Che-Sheng Chiu (Chunghwa Telecom Laboratories, Taiwan), Chia-Chi Huang (National Chiao Tung University, Taiwan)3. A Network-based Handover Scheme for Hierarchical Mobile IPv6 over IEEE 802.16e, Dong-Guen Kim, Ho-Jin Shin, Dong-Ryeol Shin (Sungkyunkwan University, Korea)4. Radio Access Network Fairly Distributing Multimedia Calls and Method Controlling Call Process Load, Jisoo Park, Hanjun Yoon, Youngjick Bahg (ETRI, Korea)	



TECHNICAL SESSIONS

Session 3C: Next Generation Network Technology (III) Chair: Heechang Chung (NIA, Korea)	Room Ruby II
<ol style="list-style-type: none">1. (Invited Speech) Korea Advanced Research Network(KOREN) for Future Internet Testbed, Sangkyun Kim (National Information Society Agency, Korea)2. An Alternative Energy Detection Using Sliding Window for Cognitive Radio System, Young Min Kim, Guanbo Zheng, Sung Hwan Sohn, Jae MOUNG Kim (Inha University, Korea)3. Network-Processor-Based IPv4/IPv6 Translator: Implementation and Fault Tolerance, Wanming Luo, Baoping Yan, Xiaodong Li, Wei Mao (Chinese Academy of Sciences, Beijing, China)4. Framework of IPv6-based Next Generation Network, Jung-Soo Park, Hyoung-Jun Kim (ETRI, Korea)	
Session 3D: RFID & USN Technologies (III) Chair: Canfeng Chen (Nokia Research Center, China)	Room Topaz I
<ol style="list-style-type: none">1. Adaptive Authentication Mechanism using Node Reputation on Mobile Medical Sensor Networks, Mihui Kim, Kijoon Chae (Ewha Womans University, Korea)2. Sensor Data Management System in Sensor Network for Low Power, YoungBag Moon, YeonJun Choi, SeungKi Hong, InHwan Lee (ETRI, Korea)3. Performance Simulation of Multihop Routing Algorithms for Ad-Hoc Wireless Sensor Networks Using TOSSIM, Shailesh A Notani (Delphi Corp., India)4. A Miniaturized Mote for Wireless Sensor Networks, Kyung Jun Choi, Jong-In Song (Gwangju Institute of Science and Technology, Korea)5. Real-Time Unmanned Robot Tracking with Extended Kalman Filter in the Vibration Smooth Cricket Location System, Jae Bong Yoo, Chan Young Park (Hallym University, Korea)	



TECHNICAL SESSIONS

Session 3E: Telematics Technology (I)	Room Topaz II
Chair: Dae-Ki Kang (Dongseo University, Korea)	
<ol style="list-style-type: none"> 1. (Invited Speech) Algorithm Development for Intelligence Vehicle, Yousik Hong (Sang-Ji University, Korea) 2. Code Tracking Bias Compensation Scheme for the Galileo E1 OS signal, Seung Hwan Yoo, Seungsoo Yoo, Sun Yong Kim (Konkuk University, Korea), Sangho Ahn, Seokho Yoon (Sungkyunkwan University, Korea) 3. Design and Implementation of a Location-Based Service Platform, Junhui Zhao, CaiMu Zheng, Di Zhou (Macau University of Science and Technology, China) 4. A Novel Cubic-Phase Linear Chirp for DS-UWB Ranging, Young-il Shin, Joon-goo Park (Kyungpook National University, Korea) 	
Session 3F: Communication Network Topology and Planning (I)	Room Topaz III
Chair: Yingji Zhong (Inha University, Korea)	
<ol style="list-style-type: none"> 1. PIM Multicast Spam Countering Method Using Blacklist in Rendezvous Point, Sung Hei Kim, So Young Park, Shin Gak Kang (ETRI, Korea) 2. On Backbone Structure For a Future Multipurpose Network, José Manuel Gutiérrez López (Aalborg University, Denmark), Rubén Cuevas Rumín (Universidad Carlos III de Madrid, Spain), M. Tahir Riaz, Jens Myrup Pedersen, Ole Brun Madsen (Aalborg University, Denmark) 3. A Test-bed for Topological Routing in 4-regular Grid Structures, Tahir M. Riaz, Jens M. Pedersen, Jose G. Lopez, Rasmus H. Nielsen, Ole B. Madsen (Aalborg University, Denmark) 4. Data Dispose Algorithm for Scheduling in Multi Channels, Jian Pan Li (Nanhua University, Taiwan), Tung-ying Lee (National University of Tainan, Taiwan) 5. Layer-2 Routing Analytic Model by Linear Programming, Changjin Suh, Shin-woong Jung (Soongsil University, Korea) 	
Coffee Break 14:40 ~ 15:00	



TECHNICAL SESSIONS

Session 4 15:00 ~ 16:20	
Session 4A: Wireless Communication Technology (IV) Chair: Tae-young Han (Chungbuk National University, Korea)	Room Emerald
<ol style="list-style-type: none">1. Passband Simulations of Interference Impacts in the Presence of Ultra Wideband and Narrowband Systems, Simon S.M. Wong (Technical Services Division, Hong Kong SAR Government, China), Francis C.M. Lau (Hong Kong Polytechnic University, China)2. Improved Reliability of Spectrum Sensing using Energy Detector in Cognitive Radio System, Jun-Ho Baek, Hyeong-Joo Oh, Seung-Hoon Hwang (Dongguk University, Korea)3. Design of 600Mbps 4x2 MIMO-OFDM Wireless LAN System and Its FPGA Implementation, Akihiro Teramoto, Kunitoshi Nishijo, Tadashi Maemura, Yuhei Nagao, Masayuki Kurosaki, Hiroshi Ochi (Kyushu Institute of Technology, Japan)4. Design of UWB Diversity Antenna for PDA Applications, Seokjin Hong, Jaewon Lee, Jaehoon Choi (Hanyang University, Korea)5. Performance of TC-QPSK-OFDM System with Phase Error and Perfect Compensation in Rayleigh Fading Channel, Said M. Elnoubi, Shawki Shaaban (Alex. Univ., Egypt), Sherif Samir A. Elbadawy (Air Defense College, Egypt)	
Session 4B: Mobile Communications (IV) Chair: Suk Chan Kim (Pusan National University, Korea)	Room Ruby I
<ol style="list-style-type: none">1. (Invited Speech) Mobile Web 2.0 Technologies, Seungyun Lee (Electronics and Telecommunications Research Institute, Korea)2. An Adaptive Resource Allocation Scheme in OFDMA based Multiservice WiMAX Systems, Xinning Zhu, Jiachuan Huo, Song Zhao, Zhimin Zeng, Wei Ding (Beijing University of Posts and Telecommunications, China)3. The Variable Step-Size Algorithm for Decision Feedback Equalizer Turbo Code DS/CDMA System Using SOVA Algorithm, Thana Udomsripaiboon, Kanokwat Sieangjen, Thanu Kungwanchai, Nattapon Sanpote (Narasuan University, Thailand), Chawalit Benjangkprasert (King Mongkut's Institute of Technology Ladkrabang, Thailand)4. A Novel Cluster Routing Protocol with Power Balance in Ad Hoc Networks, Jian Pan, Li, Yueh Shun Li (Nanhua University, Taiwan), Tung Ying Lee (National University of Tainan, Taiwan)	



TECHNICAL SESSIONS

Session 4C: Next Generation Network Technology (IV) Chair: Heechang Chung (NIA, Korea)	Room Ruby II
<ol style="list-style-type: none">1. Alternative Attempts can Increase Transmission Opportunities in 802.11-Based Wireless Mesh Networks, Junhee Lee, Kyunghan Lee, Jinsung Lee, Sachin L. S., Anseok Lee, Song Chong (KAIST, Korea)2. Design of User Bandwidth Management in Transport Layer of NGN, EuiJun Kim, Sungchol Cho, Boyoung Rhee, Sunyoung Han (Konkuk University, Korea)3. SIP over an Identifier/Locator Splitted Next Generation Internet Architecture, Christian Esteve Rothenberg, Walter Wong, Fábio L. Verdi, Mauricio F. Magalhães (State University of Campinas, Brazil)4. A Study on the Future Internet Requirement and Strategy in Korea, Jaeho Lee, Sun-moo Kang, Yeong-Ro Lee (NIA, Korea), Jaiyong Lee (Yonsei University, Korea)5. An Efficient Multicasting Architecture for Context-Aware Messaging Services in the Future Internet, Hojin Lee, Bokgyun Jeon, Soyoun Park, Taekyoung Kwon, Yanghee Choi (Seoul National University, Korea)	
Session 4D: RFID & USN Technologies (IV) Chair: Al-Sakib Khan Pathan (Kyung Hee University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. Localized Detection of Faults in Wireless Sensor Networks, Myeong-Hyeon Lee, Yoon-Hwa Choi (Hongik University, Korea)2. Suggesting Infection causes Monitoring System based on Wireless Sensor Network for Hospital Infection Control, Garam Park (Institute for Information Technology Advancement, Korea), Jaeheung Yoo (ICU, Korea)3. Sensor Network to collect Data in Field to match Satellite Data, Moo Wan Kim, Fumikazu Iseki (Tokyo University of Information Sciences, Japan), Kwang Sik Kim (Scommtech Japan Corp, Japan)4. CHEF: Cluster Head Election mechanism using Fuzzy logic in Wireless Sensor Networks, Jong-Myoung Kim, Seon-Ho Park, Young-Ju Han, Tai-Myoung Chung (Sungkyunkwan University, Korea)5. RFID Applications Strategy and Deployment in Bike Renting System, Kuo-shien Huang, Shun-ming Tang (National Yunlin University of Science and Technology, Taiwan)	



TECHNICAL SESSIONS

Session 4E: Telematics Technology (II) Chair: Dae-Ki Kang (Dongseo University, Korea)	Room Topaz II
<ol style="list-style-type: none">1. An Approach for Data Collection and Traffic Signal Control in the Futuristic City, Gangdo Seo (Korea Water Resources Coporation, Korea), Ahmet Yazici (Eskisehir Osmangazi University, Turkey), Umit Ozguner (Ohio State University, U.S.A.), Jinho Cho (Kyungpook National University, Korea)2. A New Tracking Method using Image Sensor and Photo Diode for Visible Light Road-to-Vehicle Communication, Tsubasa Saito, Shinichiro Haruyama, Masao Nakagawa (Keio University, Japan)3. Future Automotive Insurance System based on Telematics Technology, Daesub Yoon, Jongwoo Choi, Hyunsuk Kim, Juwan Kim (ETRI, Korea)4. Location-awareness Communications System for Improving Medical Service Quality, Po-Yen Lin, Chih-Ning Huang, Chia-Tai Chan (National Yang-Ming University, Taiwan), Yuan-Rung Yang (Chunghwa Telecom Co.Ltd, Taiwan)5. A Novel Code Tracking Scheme using Correlation Outputs in Advanced Offset Region for GALILEO L1 Open Service, Euihyoung Lee, Seungsoo Yoo, Sun Yong Kim (Konkuk University, Korea), Youngyoon Lee, Seokho Yoon (Sungkyunkwan University, Korea), Seok-Pil Lee (Korea Electronics Technology Institute, Korea)	
Session 4F: Communication Network Topology and Planning (II) Chair: Dongkyun Kim (KISTI, Korea)	Room Topaz III
<ol style="list-style-type: none">1. Slot Reservation Demand Assignment Multiple Access Control Protocol for Signalling of Telephony Traffic via Geo Satellite, Sahar Kouroshnejad, Saadan Zokaei (KNT University of Technology, Iran), Hassan Yeganeh (Iran Telecommunication Research Center, Iran), Mohammad SayadHaghighi (KNT University of Technology, Iran)2. A Study of Cost and Network Efficiency in BICC Signaling Protocol, Jeong-Je Cho, Nak-Po Kim (KTF, Korea)3. A Comparison of Network Planning Strategies, Jens Myrup Pedersen, Tahir M. Riaz (Aalborg University, Denmark), Bozydar Dubalski (University of Technology and Life Sciences, Poland), Ole Brun Madsen (Aalborg University, Denmark)4. Design of IPv6 Tactical Network based on Commercial Technologies: Architecture, Routing, and Mobility Management, Bong Chan Kim, Jae Soong Lee, Youngchul Bang, Jae Kwang Lee, Hwang Soo Lee (KAIST, Korea), Joong Soo Ma (ICU, Korea)5. KT's deployment with Fiber To The Home, Hanchoon Park (KT, Korea), Hyung-Myong Kim (KAIST, Korea)	



TECHNICAL SESSIONS

Session 4G: Poster Session (II)

Room Diamond I

1. Noncoherent M-ary Orthogonal FSK Alamouti Space-Time Coding with Antenna Selection, Il Jin Youn (Samsung Electronics Co., Ltd., Korea)
2. pFlours: A New Packet and Flow Gathering Tool, Byung-Jin Han, Jong-Hyouk Lee (Sungkyunkwan University, Korea), Seon-Gyoung Sohn, Jong-Ho Ryu (ETRI, Korea), Tai-Myoung Chung (Sungkyunkwan University, Korea)
3. CARP: A Cooperative-Aided Routing Protocol in Mobile Ad-hoc Wireless Sensor Networks, Beongku An, Joo Sang Lee (Hongik University, Korea), Nam-Soo Kim (Cheongju University, Korea), Do-Hyeun Kim (Cheju National University, Korea)
4. WSNMP: A Network Management Protocol for Wireless Sensor Networks, Muhammad Mahbub Alam, Md. Mamun-Or-Rashid, Choong Seon Hong (Kyung Hee University, Korea)
5. A Study of the Subscribers' Drifts and Attitudes regarding the Provision of Converged Services, Iikwon Cho (Kyushu University, National Information Society Agency, Korea), Koji Okamura (Kyushu University, Japan), SangYong Ha, YoungRo Lee, HyunMok Oh (National Information Society Agency, Korea)
6. New Challenges on Future Network and Standardization, Myung-Ki Shin, Yong-Woon Kim (ETRI, Korea)
7. Characterizing QoS Parameters and Application of Soft-QoS Scheme for 3G Wireless Networks, Mostafa Zaman Chowdhury, Mohd. Noor Islam, Young Min Seo, Young Ki Lee, Sang Bum Kang, Sun Woong Choi, Yeong Min Jang (Kookmin University, Korea)
8. A New Address Scheme for Service Discovery supporting Active Mobile Sensor Objects, Dongpil Kwak, Joongsoo Lee, Seoungku Kim, Younghee Lee (ICU, Korea)
9. Negative Permeability Metamaterial Structure Based Electrically Small Loop Antenna, Yong-jin Kim, Joong-kwan Kim, Jung-han Kim, Ho-yong Kim, Hong-min Lee (Kyonggi University, Korea)
10. A Study on the QoS Metric for measuring BcN Wireless Service Quality, Sun-Young Shin, Jin-Chul Kim, Sang-Yong Ha, Yeong-Ro Lee (NIA, Korea)
11. Inter-cell Interference Coordination for Uplink Non-real-time Data in CDMA Systems, Hyung-sub Kim, Jae Su Song, Yeon Seung Shin (ETRI, Korea)
12. A Comparative Study of Channel Estimation for Mobile WiMAX System in High Mobility, Dong Heon Lee, Suk Chan Kim, Dong Chan Park (Pusan National University, Korea), Young-il Kim (ETRI, Korea)
13. Weighted-Cooperative Spectrum Sensing Scheme using Clustering in Cognitive Radio Systems, Jookwan Lee, Youngmin Kim, Sunghwan Sohn, Jaemoung Kim (Inha University, Korea)
14. Reduced Complexity of RD Detector Based on Semi-definite Relaxation for MIMO Systems, Su Bin Park, Ryun Woo Kim, Youn Shik Byun (University of Incheon, Korea)
15. ZigBee Device Access Control and Reliable Data Transmission in ZigBee Based Health Monitoring System, JY Jung, JW Lee (ETRI, Korea)
16. Performance Analysis for Amplify-and-forward Opportunistic Relaying with Quality Based Channel State Reporting, Jung-Bin Kim, Dongwoo Kim (Hanyang University, Korea)



TECHNICAL SESSIONS

Session 4G: Poster Session (II)		Room Diamond I
<p>17. ENDIST: Edge Node Divided Spanning Tree, Changjin Suh, Kyungmi Kim, Jisoo Shin (Soongsil University, Korea)</p> <p>18. A Method for Distributed Personal Contents Management, Moonyoung Chung, Sungjoo Kang (ETRI, Korea), Ji Hoon Choi (Uninfo, Korea), Kyong-I Ku, Won-Young Kim, Wan Choi (ETRI, Korea)</p> <p>19. QoS Mesh Routing Protocol for IEEE 802.16 based Wireless Mesh Networks, Min Kim, Ilkyeun Ra, Jisang Yoo, Dongwook Kim (Kwangwoon University, Korea), Hwasung Kim (University of Colorado at Denver and Health Sciences Center, U.S.A.)</p> <p>20. Measurement and Statistical Analysis of QoS Parameters for Mobile WiMAX Network, Mohd. Noor Islam, Mostafa Zaman Chowdhury, Young Min Seo, Young Ki Lee, Sang Bum Kang, Sun Woong Choi, Yeong Min Jang (Kookmin University, Korea)</p> <p>21. Low Noise RF Front-End Receiver for 3~5 GHz MB-OFDM UWB, Yun-A Shim, Jeongseon Lee, Sek-Kyun Han, Sang-Gug Lee (ICU, Korea)</p> <p>22. u-Healthcare SensorGrid Gateway for connecting Wireless Sensor Network and Grid Network, Se-Jin Oh, Chae-Woo Lee (Ajou University, Korea)</p> <p>23. Estimation Technique of Low Crest Factor Signal in Multiple Signal Representation, Jae-Kwon Lee, Ju-Hyun Yoon, Jin-Up Kim (University of Science and Technology, ETRI, Korea)</p> <p>24. Performance of Multi-User UWB Systems Based on Receive Diversity, Sungsin Lee, Sunyoung Baek, Sangchoon Kim, Bongsoon Kang (Dong-A University, Korea)</p> <p>25. Performance Evaluation of Enhanced 802.11 in Wireless Mesh Networks, S. H. Jeon, J. M. Lee, J. K. Choi (ICU, Korea)</p> <p>26. A Reconfigurable HMM for Activity Recognition, Md. Kamrul Hasan, Husne Ara Rubaiyeat, Yong-Koo Lee, Sungyoung Lee (Kyung Hee University, Korea)</p> <p>27. A Study on Moderating Effect of Personal Innovativeness in Mobile-RFID Services, Nae-Yang Jeong, Youngsang Yoo, Jung-Eun Ku (ETRI, Korea)</p> <p>28. A Framework for Smart Object and Its Collaboration in Smart Environment, Kh. Tarik-Ul Islam, Jehad Sarkar, Kamrul Hasan, M Rezwatul Huq, Andrey V. Gavrilov, Young-Koo Lee, Sungyoung Lee (Kyung Hee University, Korea)</p> <p>29. Smart Driving Simulator using Intelligence, You Sik Hong (SangJi Univ., Korea), Hyeong Ho Lee (ETRI, Korea)</p>		
Coffee Break 16:20 ~ 16:40		
Plenary Session	16:40 ~ 18:00	Phoenix Ballroom
Chair: Hyeong-Ho Lee (ICACT2008 TPC Chair)		
<p>1. R&D for the Next Generation Networks & FTTH in NTT, Mr. Hiromichi Shinohara (NTT, Japan)</p> <p>2. IT Mega-trend and KT Vision, Mr. Sanghong Lee (KT, Korea)</p>		
Opening Ceremony and Banquet	18:30 ~ 20:30	Phoenix Ballroom
Welcome Address: Prof. Sungok Lee (ICACT2008 General Chair)		



TECHNICAL SESSIONS

Day 3 : February 19 (Tuesday)

Session 5 09:00 ~ 10:20

Session 5A: Wireless Communication Technology (V)

Room Emerald

Chair: Muhammad Irfan (Sir Syed University of Engg & Tech, Pakistan)

1. Implementation of Quantum Key Distribution in Wi-Fi (IEEE 802.11) Wireless Networks, Xu Huang, Shirantha Wijesekera, Dharmendra Sharma (University of Canberra, Australia)
2. Simple Jitter Minimization Algorithm for Wireless Broadband Network, Eun Cheol Kim (Kwangwoon University, Korea), Young-Chul Oh, Do-Young Kwak, Se-Jun Park (KT Infra Laboratory, Korea), Jin Young Kim (Kwangwoon University, Korea)
3. A Simple Single-Carrier Space-Time Transmission Scheme for Asynchronous Cooperative Communications over Frequency-Selective Channels, Kai Yan, Sheng Ding, YunZhou Qiu, YingGuan Wang, HaiTao Liu (Chinese Academy of Sciences, China)
4. Cognitive Ad-hoc Networks under a Cellular Network with an Interference Temperature Limit, Ki Tae Kim, Seong Keun Oh (Ajou University, Korea)
5. Code Selected M-ary DS-BPAM UWB Communication System, Zhiquan Bai, Dongfeng Yuan (Shandong University, China), Yingji Zhong, Hohwan Park, Kyungsup Kwak (Inha University, Korea)

Session 5B: Mobile Communications (V)

Room Ruby I

Chair: Sangjin Jeong (ETRI, Korea)

1. Overlaid HDD System Using Relays, Young Jin Sang, Jin Bae Park, Seong-Lyun Kim, Kwang Soon Kim (Yonsei University, Korea)
2. Implementation of Location Determination in a Wireless Local Area Network (WLAN) Environment, Mahamod Bin Ismail, Aly Fathi Aly Boud, Wan Nurdiana Wan Ibrahim (Universiti Kebangsaan Malaysia, Malaysia)
3. Adaptive Primary Path Switching for SCTP Handover, Dong Phil Kim, Dong Hwa Lee, Seok Joo Koh (Kyungpook National University, Korea), Yong Jin Kim (Modacom Incorporation, Korea)
4. Subscriber Authentication in Cellular Networks with Trusted Virtual SIMs, Michael Kasper, Nicolai Kuntze, Andreas U. Schmidt (Fraunhofer-Institute for Secure Information Technology SIT, German)
5. Development of Mobile Access Point for Vehicular WiBro Networks, Eun Kyoung Paik, Hanlim Kim, Si Young Heo, Jong Sam Jin, Seong-Choon Lee, Sang Hong Lee (KT, Korea)



TECHNICAL SESSIONS

Session 5C: Next Generation Network Technology (V) Chair: Jae-young Ahn (ETRI, Korea)	Room Ruby II
<ol style="list-style-type: none">1. Paging Algorithm For Cost-Effective Location Management In Multiple Access Network Environment, Ae Hyang Park (ICU, Korea), Juyoung Park, Shin-Gak Kang (ETRI, Korea), Jun Kyun Choi (ICU, Korea)2. A Hybrid Overlay Multicast Scheme based on Host Group Model for Subnet-Dense Receivers, Dongk-Kyun Kim, Huhn-Kuk Lim, Kwang-Jong Cho, Gi-Seong Yu (KISTI, Korea)3. Univer6 – A Universal Network Architecture for IPv6, Xiangbin Cheng, Jun Bi, Xing Li (Tsinghua University, China)4. Link Quality-Aware Packet Forwarding Architecture for Wireless Mesh Network, Hung Quoc Vo, Choong Seon Hong (Kyung Hee University, Korea)5. An Efficient Ant-based Routing Algorithm for MANETs, Miae Woo, Ngo Huu Dung, Woo Jong Roh (Sejong University, Korea)	
Session 5D: RFID & USN Technologies (V) Chair: Al-Sakib Khan Pathan (Kyung Hee University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. A QoS Adaptive Congestion Control in Wireless Sensor Network, Md. Obaidur Rahman, Muhammad Mostafa Monowar, Choong Seon Hong (Kyung Hee University, Korea)2. Design of Interoperability for Real-Time Integration of RFID and BPM, Hyungjin Ahn, Kwanghoon Kim (Kyonggi University, Korea)3. Cluster Based Data Query Analysis and Optimization for Wireless Sensor Networks, Zhanyang Zhang, Olga Berger (City University of New York, U.S.A.)4. Fuzzy Logic Based Key Disseminating in Ubiquitous Sensor Networks, Hae Young Lee, Tae Ho Cho (Sungkyunkwan University, Korea)5. A Development of the Nano OS Kernel based on System State-Monitor for Ubiquitous Sensor Network, Dong Myung Lee (Tongmyong University, Korea), Kwangyong Lee (ETRI, Korea)	



TECHNICAL SESSIONS

Session 5E: Multimedia and Internet Systems and Services (I)	Room Topaz II
Chair: Hyongsoon Kim (NIA, Korea)	
<ol style="list-style-type: none"> 1. A Novel Semantic-Based Image Retrieval Method, Abolfazl Lakdashti (Islamic Azad University, Rouzbahan Institute of Higher Education, Iran), M. Shahram Moin, Kambiz Badie (IT Faculty, Iran Telecommunication Research Center, Iran) 2. An Adaptive And Parameterized Job Grouping Algorithm For Scheduling Grid Jobs, Nithiapidary Muthuvelu, Ian Chai, Chikkanan Eswaran (Multimedia University, Malaysia) 3. An Efficient Membership Management Scheme for Gossip-Based Overlay Multicast, Yong Sun, Xiangming Wen (Beijing University of Posts and Telecommunications, China) 4. A Survey on Peer-to-Peer Overlay Network Schemes, Hyojin Park (ICU, Korea), Jinhong Yang (Herit Corporation, Korea), Juyoung Park, Shin Gak Kang (ETRI, Korea), Jun Kyun Choi (ICU, Korea) 5. An Empirical Study on Impacts of Service Quality and Switching Cost on Customer Loyalty of VoIP Services, Jaeheung Yoo, Soohyung Kim (ICU, Korea), Jaehwan Hong (ETRI, Korea) 6. Comparison of Video Streaming Quality Measurement Methodologies, Kwangjin Choi, Jun kyun Choi (ICU, Korea), Jae Hwan Hong, Gyeong Ju Min, Jongkuk Lee (ETRI, Korea) 	
Session 5F: Information Security Technology (I)	Room Topaz III
Chair: Chin-Feng Lin (National Taiwan Ocean University, Taiwan)	
<ol style="list-style-type: none"> 1. A Security Architecture for e-Health Services, Rossilawati Sulaiman, Dharmendra Sharma, Wanli Ma, Dat Tran (University of Canberra, Australia) 2. An Approach to Mitigating Sybil Attack in Wireless Networks using ZigBee, Gunhee Lee, Jaesung Lim, Dong-kyoo Kim (Ajou University, Korea), SungHyun Yang (Kwangwoon University, Korea), MyungHyun Yoon (Korea Electronics Technology Institute, Korea) 3. Deterministic Link Signature based IP Traceback Algorithm under IPv6, Yi Shi, Yong Qi, BinXia Yang (Xi'an Jiaotong University, China) 4. e-RPNL : Labeling Scheme for Efficient Secure Access Control, Dong-Chan An, Jin-Young Kim, Seog Park (Sogang University, Korea) 5. A Novel Algebraic Approach to Power Analysis Attack-Resistant Countermeasure for Koblitz Curve Cryptosystems in Mobile Devices, Behzad Kasiri, Hadi Sahriar Shahhoseini, Hadi Meshgi (Iran University of Science and Technology, Iran) 	
Coffee Break 10:20 ~ 10:40	



TECHNICAL SESSIONS

Session 6 10:40 ~ 12:00	
Session 6A: Wireless Communication Technology (VI) Chair: Cheol-Sun Park (Agency for Defense Development, Korea)	Room Emerald
<ol style="list-style-type: none"> 1. A PTS-OFDM Phase-Superimposed over Pilot Symbols, Tae-Young Han, Nam Kim, Jung-Hun Choi (Chungbuk National University, Korea), Jae-Hwan Lee (Institute for Information Technology Advancement, Korea) 2. Adaptive Channel Estimation using Cyclic Prefix for Single Carrier Wireless System with FDE, Wahyul Amien Syafei, Kunitoshi Nishijo, Yuhei Nagao, Masayuki Kurosaki (Kyushu Institute of Technology, Japan), Hiroshi Ochi (Radrix.co.ltd., Japan) 3. Performance Analysis of UWB Radar for Vehicle in Multi-user Environments, Sang-Dong Kim, Jong-Hun Lee (Daegu Gyeongbuk Institute of Science & Technology, Korea) 4. Adaptive Inter-Cell Interference Management for Downlink FH-OFDMA Systems, Jin Bae Park, Young Jin Sang, Seong-Lyun Kim, Kwang Soon Kim (Yonsei University, Korea) 5. New Correlation Functions for CBOC Satellite Signal Synchronization, Sanghun Kim (Sungkyunkwan University, Korea), Seungsoo Yoo, Seung Hwan Yoo, Sun Yong Kim (Konkuk University, Korea), Seokho Yoon (Sungkyunkwan University, Korea) 	
Session 6B: Mobile Communications (VI) Chair: Muhammad Irfan (Sir Syed University of Engg & Tech, Pakistan)	Room Ruby I
<ol style="list-style-type: none"> 1. Fast Handover for Proxy Mobile IPv6 based on 802.11 Networks, Joo-Chul Lee, Jung-Soo Park (ETRI, Korea) 2. A Robust Cross-Layer Design of Clustering-Based Routing Protocol for MANET, Arash Dana, AmirMansour Yadegari, Marzieh Hajhosseini, Tina Mirfakhraie (Iran Telecommunication Research Center, Iran) 3. FPGA Implementation of 3Mbps Single Carrier Mobile Wireless System with 1MHz Bandwidth, Kunitoshi Nishijo, Wahyul Amien Syafei, Masayuki Kurosaki (Kyushu Institute of Technology, Japan), Hiroshi Ochi (Radrix co.ltd, Japan), Satoru Ishii (Futaba Corporation, Japan) 4. An Execution Model of MAC on System Kernel for WiBro Access Terminal, Seung-Que Lee, Nam-Hoon Park (ETRI, Korea) 5. Enhanced MCS for Direct Relaying in Transparent RS of IEEE 802.16j, Suchang Chae, Young-il Kim (ETRI, Korea) 	



TECHNICAL SESSIONS

Session 6C: Next Generation Network Technology (VI)

Room Ruby II

Chair: Minho Kang (Information and Communications University, Korea)

1. A Novel Address Pointer Switch Architecture for Variable Length Packets, KyoungSook Ryu, ByeongSeog Choe (Dongguk University, Korea)
2. Proposed Congestion Control Method for All-IP Networks including NGN, Kenichi Hatakeyama, Shin-ichi Kuribayashi (Seikei University, Japan)
3. Address Structure for supporting Ubiquitous Networking using IPv6, Gyu Myoung Lee, Jun Kyun Choi (ICU, Kora), Taesoo Chung (ETRI, Korea)
4. Service Architecture for 3rd Party Operator's Participation, A. H. Darvishan, F. Sarabchi, H. Yeganeh, H. Ahmadian (Iran Telecommunication Research Center, Iran)
5. Route Optimization Scheme for Proxy Mobile IPv6 (PMIPv6), Sangjin Jeong, Myung-Ki Shin (ETRI, Korea)

Session 6D: RFID & USN Technologies (VI)

Room Topaz I

Chair: Hyongsoon Kim (NIA, Korea)

1. A Clustering Method of Enhanced Tree Establishment in Wireless Sensor Networks, Jin-Young Choi, Joon-Sic Cho, Seon-Ho Park, Tai-Myoung Chung (Sungkyunkwan University, Korea)
2. Securing U-Healthcare Sensor Networks using Public Key Based Scheme, Md. Mokammel Haque, Al-Sakib Khan Pathan, Choong Seon Hong (Kyung Hee University, Korea)
3. Effective Service Discovery in IP-based Wireless Sensor Network, Seungku Kim, Joongsoo Lee, Dongpil Kwak, Younghee Lee (ICU, Korea)
4. Estimation of Velocity and Training Overhead Constraints for Energy Efficient Cooperative Technique in Wireless Sensor Network, Mohammad Rakibul Islam, Jinsang Kim (Kyung Hee University, Korea)
5. Condition-based Key Dissemination Period Determining Method in Sensor Networks, Byung Hee Kim, Tae Ho Cho (Sungkyunkwan University, Korea)

Session 6E: Multimedia and Internet Systems and Services (II)
Room Topaz II
Chair: Samuele Pasqualini (University Politecnica delle Marche, Italy)

1. A Metadata Schema Design on Representation of Sensory Effect Information for Sensible Media and its Service Framework using UPnP, Shinjee Pyo (ICU, Korea), Sanghyun Joo, Bumsuk Choi (ETRI, Korea), Munchurl Kim (ICU, Korea), Jaegon Kim (Korea Aviation University, Korea)
2. A Memory-Efficient CAVLC Decoding Scheme for H.264/AVC, Yanling Chen, Xixin Cao, Xiaoming Peng, Chungan Peng, Dunshan Yu, Xing Zhang (Peking University, China)
3. Call/Messaging Open API for Telecommunication Services, Soonchul Jung, Mi-Kyoung Kang, Dae-Woo Choi (KT, Korea)
4. Enhanced Parallel Thread Scheduling for Java Based Applications on Multi-Core Architecture, Kam-Mun Chong, Kam-Mun Chong, Chikkannan Eswaran, Somnuk Phon-Amnuaisuk (Multimedia University, Malaysia)
5. Implementation of the Converting Module from FIPA SL to XML, Yoe-Jin Yoon, Dong-Uk Kim, Sung-Jun Na, Dong-Ryeol Shin (Sungkyunkwan University, Korea)

Session 6F: Information Security Technology (II)
Room Topaz III
Chair: Taha Al-Arif (Faculty of Computer Science and Information System, Egypt)

1. A Distributed Certificate Authority and Key Establishment Protocol for Mobile Ad Hoc Networks, Mohammad Sheikh Zefreh, Ali Fanian, Sayyed Mahdi Sajadieh, Mahdi Berenjkoub, Pejman Khadivi (Isfahan University of Technology, Iran)
2. A User Friendly Internet Identity Management System, Daeseon Choi, Seunghun Jin (ETRI, Korea), Hyunsoo Yoon (KAIST, Korea)
3. Misbehavior Detection in Wireless Mesh Networks, Md. Abdul Hamid, Md. Shariful Islam, Choong Seon Hong (Kyung Hee University, Korea)
4. Effective Value of Decision Tree with KDD 99 Intrusion Detection Datasets for Intrusion Detection System, Joong-Hee Lee, Jong-Hyuk Lee (Sungkyunkwan University, Korea), Seon-Gyoung Sohn, Jong-Ho Ryu (ETRI, Korea), Tai-Myoung Chung (Sungkyunkwan University, Korea)
5. A Cooperation Network Model for Secure Management in Dynamic P2P Flow, Yong-Hyuk Moon, Jae-Hoon Nah, Jong-Soo Jang (ETRI, Korea), Chan-Hyun Youn (ICU, Korea)

Session 6G: Poster Session (III)
Room Diamond I

1. An Effective Broadcast Strategy for Route Discovery in the ZigBee Network, Kwang Koog Lee, Seong Hoon Kim, Hong Seong Park (Kangwon National University, Korea)
2. Cross-Layered MAC and Routing Algorithm for Real-Time Traffic over Wireless Multihop Networks, Seung-seok Hong, Seung-Jun Lee, Jitae Shin (Sungkyunkwan University, Korea)
3. List LRAD based on Semi-Definite Relaxation for MIMO Systems, Su Bin Park, Jae Sun Jong, Dong jin Lee, Youn Shik Byun (University of Incheon, Korea)
4. The Still Image Compression using JPEG2000 on the Mobile Telecommunication, Hochul Shin, Youngseop Kim (Dankook University, Korea)
5. Variable Subband Analysis for High Quality Spatial Audio Object Coding, Kyungryeol Koo, Kwangki Kim (ICU, Korea), Jeongil Seo, Kyeongok Kang (ETRI, Korea), Minsoo Hahn (ICU, Korea)
6. Efficient Phase Estimation Using Turbo Decoding In Satellite Communications System , Young Sun Lim, Jae Sung Park (Kwangwoon University, Korea), Pansoo Kim, Dae-Ig Chang, Ho-Jin Lee (ETRI, Korea), Jin Young Kim (Kwangwoon University, Korea)
7. A Cross-Layer PLC Algorithm for a Real-time Audio Conferencing System, Jin Ah Kang, Hong Kook Kim (Gwangju Institute of Science and Technology, Korea)
8. Performance Comparison of coded MIMO-OFDM with novel Diversity Technique for Mobile Communication Systems, Yoon Hyun Kim, Jin Young Kim (Kwangwoon University, Korea)
9. The Role of Switching Incentives and Barriers affecting Customer Behavior in Korean Mobile Communications Service, Moon-Koo Kim, Jong-Hyun Park (ETRI, Korea)
10. Reliable Multicast Push Engine for Framing Transfer Design and Implement, Jong-Kuk Lee, Ki-dong Nam (ETRI, Korea), Dae-Young Kim(CNU, Korea)
11. Cross-Layer Transmission Scheme for Wireless H.264 Using Distortion Measure and MAC-Level Error-Control, Jeong-Yong Choi, Jeong-Ju Yoo (ETRI, Korea), Jitae Shin (Sungkyunkwan Univ., Korea)
12. Reducing Handover Delay in Mobile IPv6 by cooperating with Layer 2 and Layer 3 Handovers, Seung Wook Moon, Jong Hyup Lee (Inje Univ., Korea)
13. The Fast SIP Registration Method using MAC Address in VoIP System, Dong Hyeon Lee, Dong Geun Yoon, Young Hun Yoo, Seong Gon Choi (Chungbuk National University, Korea)
14. Requirements and Service Scenario for High Quality Mobile VoIP Service in Convergence Network, Kyu Ouk Lee, Young Sun Kim (ETRI, Korea)
15. Measuring Blocking Artifacts for IPTV-based Service Quality Evaluation, Wonjun Kim, Muhammad Abul Hasan, Changick Kim (ICU, Korea), Jinsul Kim, Hyun-Woo Lee, Won Ryu (ETRI, Korea)
16. Inter-Domain QoS Routing Scheme using Link State Information, Tae-IL Kim, Hae-Won Jung (ETRI, Korea), Min Young Chung (SKKU, Korea), Seong-IL Jin (CNU, Korea)
17. 3GE-WLAN Vertical Handover Experience using Fast Mobile IPv6, Mi-jeong Yang, Kyung-yul Cheon, Ae-soon Park (ETRI, Korea), Sang-ha Kim (CNU, Korea)



TECHNICAL SESSIONS

Session 6G: Poster Session (III)

Room Diamond I

18. Cross-Layer Vertical Handoff for TCP Performance Enhancement in a Multi-Tier Tactical Network, Guisoon Park (Agency for Defense Development, Korea), Woojin Seok (Korea Institute of Science and Technology Information, Korea), Hyun-Ro Yoon (Agency for Defense Development, Korea), Shang-Ha Kim (Chungnam National University, Korea)
19. A Study on Methods of MCID(Multimedia Caller IDentification) Supplementary Service based on SIP, IlJin Lee, Wook Hyun, ShinGak Kang (ETRI, Korea)
20. Using Vulnerability Analysis to Model Attack Scenario for Collaborative Intrusion Detection, Xuejiao Liu, Debao Xiao (HuaZhong Normal University, China)
21. An Efficient Global Request Dispatching Scheme for Multimedia Streaming Services, Chang Soo Kim, Won Jae Lee, Yu Hyun Bak, Hag Young Kim (ETRI, Korea)
22. NGN Capabilities to support Convergence Terminals for a Multiple Network and Service Provider Environment (CTMP), Heechang Chung, Byung-Ik Choi, Sun-Moo Kang, Yeong ro Lee (National Information Society Agency, Korea)
23. Design of Unified Authentication for Multi-mode Terminal between Service and Access network in NGN , Kwihoon Kim, Hyun-Woo Lee, Seoung-kyun Jo, Won Ryu (ETRI, Korea)
24. A Joint Processing Method of Angle Diversity Receiving and Temporal Equalization, Zhihua Cao, Weizheng Pang (Harbin Engineering University, China)
25. LPF Requirement for Full-Digital Coherent IR-UWB Systems, Mi-Kyung Oh, Min-Su Kil, Ju-Ho Park, Jae-Young Kim (ETRI, Korea)
26. The Secure Routing Mechanism for DHT-based Overlay Network, Hyeokchan Kwon, Sunkee Koh, Jaehoon Nah, Jongsoo Jang (ETRI, Korea)
27. Practical Security Testing using File Fuzzing, Hyoungchun Kim, Younghan Choi, Dohoon Lee (ETRI, Korea), Donghoon Lee (Korea University, Korea)
28. Personalized Identity Agent for User-Centric IdM, Seung-Hyun Kim (ETRI, Korea), Han-Gyu Ko (ICU, Korea), Daeseon Choi, Soo Hyung Kim, Seunghun Jin (ETRI, Korea)
29. Improvement of Link Efficiency by Compressing SIP Signaling Messages with SigComp, Hyun Wook, Shin-Gak Kang (ETRI, Korea)
30. Soft Handover Mechanism for IPTV Service over Wireless Networks, Ae Hyang Park (ICU, Korea), Juyoung Park, Shin-Gak Kang (ETRI, Korea), Jun Kyun Choi (ICU, Korea)
31. Sensor Network Node Management and Implementation, YoungBag Moon, JongYoung Lee, SangJoon Park (ETRI, Korea)
32. Design of a Low-profile Antenna for DTV Application, Yeonsik Yu, Jaehoon Choi (Hanyang University, Korea)
33. Power Saving Algorithm using Data Lifetime in Wireless Sensor Network, Sanghyun Lee, Myungsik Yoo (Soongsil University, Korea)

Lunch 12:00 ~ 13:20



TECHNICAL SESSIONS

Session 7 13:20 ~ 14:40	
Session 7A: Wireless Communication Technology (VII) Chair: Woo-Yong Choi (Dong-A University, Korea)	Room Emerald
<ol style="list-style-type: none"> 1. Clustering Algorithm for Hidden Node Problem In Infrastructure Mode IEEE 802.11 Wireless LANs, Woo-Yong Choi (Dong-A University, Korea) 2. A 400Mb/s Radix-4 MAP Decoder with Fast Recursion Architecture, Cheng Zhang, Xuejing Wang, Fan Ye, Junyan Ren (Fudan University, China) 3. Performance Comparison of Some Codes in Code Division Multiplexing based MIMO Channel Sounder Architecture, Minjae Kim, Sunghyun Kim, Hyuckjae Lee (ICU, Korea), Hyunbeom Lee, Heung-Ryeol You (KT, Korea) 4. Performance Enhancement of Timing Acquisition and Detection in UWB-IR Matched Filter Receiver, Jin Sic Kim, Suk Chan Kim, Sung Su Hwang (Pusan National University, Korea), Bongsoon Kang (Dong-A University, Korea), Ju-Sung Park (Pusan National University, Korea) 5. A Study on MAC Protocol for 600 Mbps 4x2 MIMO-OFDM Wireless LAN System, Tomohiko Oka, Yuhei Nagao, Masayuki Kurosaki, Hiroshi Ochi (Kyushu Institute of Technology, Japan) 	
Session 7B: Mobile Communications (VII) Chair: Dong Myung Lee (Tongmyong University, Korea)	Room Ruby I
<ol style="list-style-type: none"> 1. A Flow Redirection Decision Mechanism using Data Mining on NEMO Environments, Yukyong Jung, Mihui Kim, Kijoon Chae (Ewha Womans University, Korea), Jooyoung Yoon, Jongsam Jin (KT Infra Laboratory, Korea) 2. DDSS: A Communication Middleware based on the DDS for Mobile and Pervasive Systems, Ki-Jeong Kwon (Agency for Defense Development, Korea), Choong-Bum Park, Hoon Choi (Chungnam National University, Korea) 3. A New Scheme for on-Demand Group Mobility Clustering in Mobile Ad hoc Networks, Arash Dana, AmirMansour Yadegari, Ahmad Salahi, Soroush Faramehr, Hamid Khosravi (Iran Telecommunication Research Center, Iran) 4. Improving TCP Performance Using PDU Reordering in WiBro Multi FA Access Terminal, Nak Woon Sung, Kyungsoo Kim (ETRI, Korea) 5. Mobile Agent Communication Mechanism using Sub-Server, Yi-Seok Jeong, Choon-Sung Nam, Hee-Jin Jeong, Dong-Ryeol Shin (Sungkyunkwan University, Korea) 	



TECHNICAL SESSIONS

Session 7C: Mobile Internet (I) Chair: Jin Seek Choi (Hanyang University, Korea)	Room Ruby II
<ol style="list-style-type: none">1. Unbalanced Multiple Description Coding by adding Enhancement Layer for AMR-WB Speech Codec in VoIP, Deck-Jong Lee, Gyu-Hyeok Jeong, In-Sung Lee (Chungbuk National University, Korea)2. A Framework for Viewer Counting of Streaming Service with IP Multicast, Chikara Sasaki, Atsushi Tagami, Teruyuki Hasegawa, Shigehiro Ano (KDDI R&D Laboratories Inc., Japan)3. Route Optimization for NEMO Based on AODV, Seong-Yee Phang, HoonJae Lee, Hyotaek Lim (Dongseo University, Korea)4. Diffserv Conditionalized Handover for HMIPv6, Sophon Mongkolluksamee, Vasaka Visoottiviseth (Mahidol University, Thailand)5. Color Error Measure for IPTV Service Quality Evaluation, Muhammad Abul Hasan, Wonjun Kim, Changick Kim (ICU, Korea), Jinsul Kim, Hyun-Woo Lee, Won Ryu (ETRI, Korea)	
Session 7D: RFID & USN Technologies (VII) Chair: June-Koo Rhee (Information and Communications University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. (Invited Speech) USN Standard and Technology, Eunsook Kim (ETRI, Korea)2. Load and Energy Balanced Geographic Routing for Sensor Networks, Md. Abdur Razzaque, Choong Seon Hong (Kyung Hee University, Korea)3. Radio Transmission Performance of EPCglobal Gen-2 RFID System, Manar Mohaisen, HeeSeok Yoon, KyungHi Chang (INHA University, Korea)4. Realizing Greater Business Value of Contemporary RFID Systems, Son Le, Xu Huang, Dharmendra Sharma (University of Canberra, Australia)	



TECHNICAL SESSIONS

Session 7E: Multimedia and Internet Systems and Services (III) Chair: Moo Wan Kim (Tokyo University of Information Sciences, Japan)	Room Topaz II
<ol style="list-style-type: none">1. Automatic System for Filtering Obscene Video , Chang-Yul Kim, Oh-Jin Kwon, Won-Gyu Kim, Seok-Rim Choi (Sejong University, Korea)2. Adaptive Threshold For Intra Frame Prediction In H.263 To H.264 Smart-Transcoder, Samuele Pasqualini, Paola Pierleoni, Folco Fioretti, Alessandro Andreoli (Università Politecnica delle Marche, Italy)3. A Personality Specialized Artificial Emotion for a Scrolling Shooter game, Jun-Seok Ham, Myung-Bum Jung, Bo-Kyung Seong, Jun-Hyoung Park, Min-ho Park, Il-Ju Ko (Soongsil University, Korea)4. Efficiency Improvement for Unconstrained Face Recognition by Weightening Probability Values of Modular PCA and Wavelet PCA, Wayo Puyati, Aranya Walairacht (King Mongkut's Institute of Technology Ladkrabang, Thailand)5. The Research of Evolved Networks for IMS Services Interworking, Jinho Hwang, Nakpo Kim (KTF, Korea)	
Session 7F: Information Security Technology (III) Chair: Sunmoo Kang (NIA, Korea)	Room Topaz III
<ol style="list-style-type: none">1. Resistant TIK-Based endairA Against the Tunneling Attack, Mohammad Fanaei, Mehdi Berenjkoub, Ali Fanian (Isfahan University of Technology, Iran)2. An On-line DDoS Attack Traceback and Mitigation System Based on Network Performance Monitoring, Wei-Tsung Su (National Cheng Kung University, Taiwan), Tzu-Chieh Lin (Acer Incorporation, Taiwan), Chun-Yi Wu, Jang-Pong Hsu (Advanced Multimedia Internet Technology Incorporation, Taiwan), Yau-Hwang Kuo (National Cheng Kung University, Taiwan)3. An Empirical Study for Security of Windows DLL Files Using Automated API Fuzz Testing, YoungHan Choi, HyoungChun Kim, DoHoon Lee (ETRI, Korea)4. A Design of an Access Control Model for Multilevel-Security Documents, Mohammad Alhammouri (The George Washington University, U.S.A.), Sead Muftic (Royal Institute of Technology, Sweden)5. Context-Aware Service System Architecture based on Identity Interchange Layer, Soo-Hyung Kim, Sang-Rae Cho, Seung-Hun Jin (ETRI, Korea)	
Coffee Break 14:40 ~ 15:00	



TECHNICAL SESSIONS

Session 8 15:00 ~ 16:20	
Session 8A: Wireless Communication Technology (VIII) Chair: Woo-Yong Choi (Dong-A University, Korea)	Room Emerald
<ol style="list-style-type: none"> 1. An Efficient Subband Method for Wideband Adaptive Beamforming, Longyang Huang (Beijing University of Posts and Telecommunications, China), Bin Shen (Inha University, Korea), Mengxing Li, Zemin Liu (Beijing University of Posts and Telecommunications, China) 2. A Novel Full-Diversity Full-Rate Transmit Beamforming Systems Combined with V-BLAST over Correlated Fading Channels, Jung-Eun Kim, Hyongsuk Jeon, Wooram Shin, Hyuckjae Lee (ICU, Korea) 3. Performance of Adaptive Modulation with Multipath Diversity Technique, Hadi K. Mohammed, Rjeev Tripathi, Krishna Kant (Motilal Nehru National Institute of Technology, India) 4. Outage Performance of Cooperative DF Relaying in Rayleigh Fading with Multiple Receive Antennas at Destination, Qinghai Yang, Yingji Zhong, Kyung Sup Kwak, Ho Hwan Park (Inha University, Korea) 5. Rain Effects on SDH-based Networks Using Protection Switching, Nahal Maleki, Ramin Khosravi, Mohammad Kazem Shokouhi (Iran Telecommunication Research Centre, Iran) 	
Session 8B: Mobile Communications (VIII) Chair: Francis C.M. Lau (Hong Kong Polytechnic University, HongKong)	Room Ruby I
<ol style="list-style-type: none"> 1. A Cross-Layer Transmission on Video Telephony over WCDMA Network, Yo-Han Kim, Jitae Shin (Sungkyunkwan University, Korea), ChangGuk Choi (Mcubeworks co. Ltd., Korea) 2. A Systematic Optimized Comparison Algorithm for LDPC Decoder, Jui-Hui Hung, Jui-Hung Hung, Sau-Gee Chen (National Chiao Tung University, Taiwan) 3. Advanced Handoff Mechanism for Delay Sensitive Applications in IEEE 802.11 Wireless LAN, Yazan M. Allawi, Min-Gon Kim, Minhoo Kang (ICU, Korea) 4. A Scheduling Algorithm Based on Channel State for VoIP Services in IEEE Std 802.16e System, Hongxia Zhang, Hong Chen, Xiaomei Fu, Jufeng Dai (Tianjin University, China) 5. Space-Time Block Coding and Beamforming for MC-CDMA Transmission, Raungrong Suleesathira, Voravat Limpakuntorn (King Mongkut's University of Technology Thonburi, Thailand) 	



TECHNICAL SESSIONS

Session 8C: Mobile Internet (II) Chair: Tokumi Yokohira (Okayama University, Japan)	Room Ruby II
<ol style="list-style-type: none">1. A Mechanism for Resource Control and Functional Architecture of Overlay Multicast for IPTV Service in NGN, Yangjung Kim, Sunghan Song, Dongkyu Lee, Ilyoung Chong (Hankuk University of Foreign Studies, Korea)2. TCP Performance Analysis and Improvement in FMIPv6, Yi-zhi Wang (Beijing Jiaotong University, China), Xing-feng Li (Chinese Academy of Sciences, China)3. Flexible Channel Allocation Algorithm for Web-based IPTV Service, Hongnyun Kim, Junkyun Choi (ICU, Korea), Sanghyun Choi (NIA, Korea)4. End-to-end QoS-aware Handover in Fast Handovers for Mobile IPv6 with DiffServ using IEEE802.11e/IEEE802.11k, Vasaka Visoottiviseth (Mahidol University, Thailand), Siwaruk Siwamogsatham (National Electronics and Computer Technology Center, Thailand)5. IPv4-related Route Optimization for DSMIPv6, Chang Yeol Yum, Hyong Soon Kim, Sunmoo Kang (NIA, Korea), JooSeok Song (Yonsei University, Korea)	
Session 8D: Digital Broadcasting Technology (I) Chair: Yuji Ishikawa (NTT DATA CORPORATION, Japan)	Room Topaz I
<ol style="list-style-type: none">1. (Invited Speech) Dynamic Adaptation of SVC using MPEG-21 DIA for QoS-Enabled Streaming, Jungwon Kang (ETRI, Korea)2. Mathematical Prediction of Sun-Synchronous Polar LEO Satellite Visions for Earth Stations, Arezoo Modiri, Leila Mohammady (Iran Telecommunication Research Center, Iran)3. Personalized Display Techniques for Next Generation DTV, Youngwoo Kim (ICU, Korea), Jaeho Lee, Jaeseung Ko, Changick Kim, Yong Ju Jung (Samsung Advanced Institute Technology, Korea)4. A Simple Alamouti Space-Time Transmission Scheme for Asynchronous Cooperative Communications over Frequency-Selective Channels, Kai Yan, Sheng Ding, YunZhou Qiu, YingGuan Wang, HaiTao Liu (Chinese Academy of Sciences, China)	



TECHNICAL SESSIONS

Session 8E: Multimedia and Internet Systems and Services (IV) Chair: Kyu Ouk Lee (ETRI, Korea)	Room Topaz II
<ol style="list-style-type: none">1. MPEG4 Realtime Encoder for Multi-channel DVR Systems, Kyung Hyun Jang, Ki Tae Park, Young Shik Moon (Hanyang University, Korea)2. A Hierarchical Scheme of Flexible Macroblock Ordering for ROI based H.264/AVC Video Coding, Rong Luo, Bin Chen (Tsinghua University, China)3. Real Time Video Copy Detection under the Environments of Video Degradation and Editing, Muhammad Usman, Changick Kim (ICU, Korea)4. A Study of Electronic Comic Services for Personalized and Enriched consumption with MPEG-7 Metadata, DaeKyu Jung (Korea University of Science and Technology, ETRI, Korea), Hui Yong Kim, Han-Kyu Lee (ETRI, Korea)5. Color Image Watermarking Based on DS-CDMA Using Hadamard Kernel, Myung-Ho Lee, Oh-Jin Kwon (Sejong University, Korea)	
Session 8F: Information Security Technology (IV) Chair: Kwangsun Ko (Sungkyunkwan University, Korea)	Room Topaz III
<ol style="list-style-type: none">1. A New Moduli Set $\{3^n-1, 3^n+1, 3^n+2, 3^n-2\}$ in Residue Number System, Mehdi Hosseinzadeh, Somayyeh Jafarali Jassbi (Islamic Azad University Science and Research branch, Iran), Keivan Navi (Shahid Beheshti University, Iran)2. Background Traffic Generation System Development for the Performance Evaluation of Information Security System, Gyoo-Yeong Jeong (ETRI, Korea), Jeong-Ho Kim (Hanbat National University, Korea)3. The Security Limitations of SSO in OpenID, Hyun-Kyung Oh (Korea University of Science and Technology, Korea), Seung-Hun Jin (ETRI, Korea)4. Towards A Secure Distribute Storage System, Min Zhang, Desheng Zhang, Hequn Xian, Chi Chen, Dengguo Feng (Chinese Academy of Sciences, China)5. Cryptanalysis of Yang-Wang-Chang's Password Authentication Scheme with Smart Cards, Al-Sakib Khan Pathan, Choong Seon Hong (Kyung Hee University, Korea)	

Session 8G: Poster Session (III)
Room Diamond I

1. Customer Buying Decision in Electronic-Commerce: A Conceptual Model, Huiwen Tu (Zhejiang University, China), Feng Xie (Zhejiang Finance & Economics Institute, China)
2. Effectively Decreasing the Maintenance Overhead of Highly Dynamic Chord System, Xiao-Jin Ren (Henan University, China), Zhi-Min Gu, Xiao-Guang Ding, Zhao-Lei Duan (Beijing Institute of Technology, China)
3. A Semantic Search Model based on Locality-sensitive Hashing in mobile P2P, Xiang-song Hou, Cao Yuan-da, Zhi-tao Guan (Beijing Institute of Technology, China)
4. A Novel Key Exchange Protocol Based on RSA-OAEP, Jie Liu, Jianhua Li (Shanghai Jiao Tong University, China)
5. Labeling System for Countering SIP spam, So Young Park, Shin Gak Kang (ETRI, Korea)
6. Context Model of User Aspect in Context-Awareness, Hongsoo Hur, Heeyong Park, Jeongseok Kim, Hyokyung Chang, Moohun Lee, Sunghoon Cho, Euiin Choi (Hannam University, Korea)
7. Management Agent for OSGi-based Healthcare Application Using Portable Information Terminal, Kyuchang Kang, Jeunwoo Lee (ETRI, Korea), Hoon Choi (Chungnam National University, Korea)
8. Study on Access Charge Method between Fixed and Internet Phone, Jung-Eun Ku, Sang-Woo Lee (ETRI, Korea)
9. The Realization of LNP, MNP and Number Portability between VoIP in Korea, Young Sic Jeong, Changmin Park (ETRI, Korea)
10. SCE Library Implementation for Creating Networks Converged Mashup Service, Seunghwa Chung, Young-Mee Shin (ETRI, Korea)
11. Blind Equalizers for WDM/SCM-PON, Eui-Suk Jung (Yonsei University, Korea), Dong-Min Seol, Byoung-Whi Kim (ETRI, Korea), Sang-Kook Han (Yonsei University, Korea)
12. All-Optical Header Processing using Direct Modulation of a Fabry-Perot Laser Diode for All-Optical Packet Switching, Ji Young Lee, Jeong Sik Cho, Yong Hyub Won (ICU, Korea)
13. Dynamic Connection Control Scheme Considering Network Topology in an Optical Network, Hyeonsik Yoon, Kwangjoon Kim (ETRI, Korea)
14. On the Stimulated Brillouin Scattering Effect of Electrically Band-limited CSRZ Signal in Optical Transmission, Sae-Kyoung Kang, Dong-Soo Lee, Hyun-Woo Cho, Hyun-Jae Lee, Jesoo Ko (ETRI, Korea)
15. Energy-Efficient Chain Topology in Ubiquitous Sensor Network, Jisoo Shin, Changjin Suh (Soongsil University, Korea)
16. A New Pilot-Aided Integer Frequency Offset Estimation Method for Digital Video Broadcasting (DVB) Systems, Youngyoon Lee (Sungkyunkwan University, Korea), Euihyoung Lee (Konkuk University, Korea), Ickho Song (KAIST, Korea), Sun Yong Kim (Konkuk University, Korea), Seokho Yoon (Sungkyunkwan University, Korea)
17. Request Based Telematics Contents Providing System using DMB, Jongwoo Choi, Daesub Yoon, Hyunsuk Kim, Juwan Kim (ETRI, Korea)





TECHNICAL SESSIONS

Session 8G: Poster Session (III)

Room Diamond I

18. Spread Spectrum Technique for Digital Broadcasting System in Rain Environment, Ju-Hyun Yoon, Jae-Kwon Lee (University of Science and Technology, Korea), Dae-Ig Chang, Deock-Gil Oh (ETRI, Korea)
19. Wavelength Re-use Scheme with Reflective SOA for WDM-PON Link, Jea-Hoon Yu, Byoung-Whi Kim (ETRI, Korea), Nam Kim (CBNU, Korea)
20. Multipath Congestion Control for Heterogeneous Traffic in Wireless Sensor Network, Muhammad Mostafa Monowar, Md. Obaidur Rahman, Choong Seon Hong (Kyung Hee University, Korea)
21. Extensible USN Metadata Management System, Chul-Su Kim (ETRI, Korea), Yong-Jun Lee, Jun-Seok Hwang (Korea Computer Service, Korea)
22. A New UWB Synchronization Scheme Using Multipath Components Jointly, Dahae Chong, Sanghun Kim (Sungkyunkwan University, Korea), Euihyoung Lee, Sun Yong Kim (Konkuk University, Korea), Seokho Yoon (Sungkyunkwan University, Korea)
23. VLSI Design of DFE Equalizer for ATSC DTxR System, Sung-Hoon Kim, Young-hoon Lee, Sung-Ik Park, Heung-Mook Kim, Jong-Soo Lim (ETRI, Korea), Yong-Seok Kim (DARBS corp, Korea), Ki-Doo Kim (Kookmin University, Korea)
24. Average Sum-Rate Bound of Multiuser MIMO Beamforming with Direction-Indicating Matrices and Channel Magnitude Feedback, Eun-Hee Shin, Dongwoo Kim (Hanyang University, Korea)
25. Echo Canceller for On-Channel Repeaters in T-DMB System, Jin-kyu Hong, Young-woo Suh, Jin-yong Choi, Jong-Soo Seo (Yonsei University, Korea)
26. An Asynchronous Peer-to-Peer Service Extension Using the General E-mail Service, Moon-Ok Choi, Il-Woo Lee, Ho-Jin Park (ETRI, Korea)
27. Performance Analysis of Robust Header Compression over Mobile WiMAX, Hyunje Woo, Jooyoung Kim, Meejeong Lee (Ewha Womans University, Korea), JeongMin Kwon (ETRI, Korea)
28. Analysis and Standardization Activity for Mobile Web Best Practice, Sunghan Kim, S.Y. Lee (ETRI, Korea)
29. Web Technology and Standardization for Web 2.0 based IPTV Service, Sunghan Kim, S.Y. Lee (ETRI, Korea)
30. Web-based Software Management System, Sungjoo Kang, Moon Young Chung, Kyong I Ku, Won Young Kim, Wan Choi (ETRI, Korea)
31. Web Service QoS in Multi-Domain, Seung-Hyun Lee, Dong-Ryeol Shin (Sungkyunkwan University, Korea)
32. Evaluation and Optimization of ActiveRecord to implement the Personalized Software Service Platform, Kyong-I Ku, Sung-Joo Kang, Moonyoung Chung, Won-Young Kim, Wan Choi (ETRI, Korea)
33. Tx-Rx Beamforming with Multiuser MIMO Channels in Multiple-cell Systems, Mihyeon Ku, Dongwoo Kim (Hanyang University, Korea)

Coffee Break 16:20 ~ 16:40



TECHNICAL SESSIONS

Session 9 16:40 ~ 18:00	
Session 9A: Wireless Communication Technology (IX) Chair: JaeDoo Huh (ETRI, Korea)	Room Emerald
<ol style="list-style-type: none"> 1. Simultaneous Power and Bit Allocation through Genetic Algorithm in MB-OFDM Systems, M.I. Taj, O. Hammami (ENSTA, France) 2. A Secure and Scalable Transaction Protocol for Ubiquitous Sensor Network using RFID Systems, Soo-Hyun Choi (University College London, United Kingdom), You-Hyeon Jeong (ETRI, Korea) 3. Error Free Despreading Of Orthogonal Codes In Quasi-Synchronous Cellular CDMA Communication, Sujit Jos, Preterm Kumar, Saswat Chakrabarti (IIT Kharagpur, India) 4. Parameter-Optimized Extended MMSE-DFE based Detection for V-BLAST, Van-Su Pham, Minh-Tuan Le, Linh Mai, Giwan Yoon (ICU, Korea) 5. Achieving Uplink/Downlink Fairness in WLANs via Multiple Backoff Timers, Siwaruk Siwamogsatham (National Electronics and Computer Technology Center, Thailand) 	
Session 9B: IT Service Technology Chair: Seung Yun Lee (ETRI, Korea)	Room Ruby I
<ol style="list-style-type: none"> 1. A Study on UPnP A/V Session Mobility Based on RFID, Taein Hwang, Hojin Park (ETRI, Korea), Jin Wook Chung (Sungkyunkwan University, Korea) 2. A Scalable Quality Service Scheme of JPEG2000 for DRM System, Kyu-Ho Song, Hee-Don Yoon, Ho-Gab Kang, Jeong-Sig Kim, Keun-Young Lee (SungKyunKwan University, Korea) 3. A Design of Open Service Access Gateway for Converged Web Service, Jinhong Yang (HERIT Coporation, Korea), Hyojin Park (ICU, Korea) 4. Group-aware Service Discovery using Effect Ontology for Conflict Resolution in Ubiquitous Environment, Gwang-hun Kim, Do-hyun Kim, XuanTung Hoang, Young-hee Lee (ICU, Korea) 5. Decision Engine for Data Adaptation Service in Advanced Collaborating Environment, Mohammad Rezwatul Huq, Khandoker Tarik-Ul Islam, Young-Koo Lee, Byeong-Soo Jeong, Sungyoung Lee (Kyung Hee University, Korea) 	



TECHNICAL SESSIONS

Session 9C: Mobile Internet (III) Chair: Changmin Park (ETRI, Korea)	Room Ruby II
<ol style="list-style-type: none">1. Efficient Resource Registration and Location Scheme in P2P-SIP, using ID-based Signature, Chang-Hwan Lee, Kyu-suk Han, Young-Hee Lee (ICU, Korea)2. Improving Handover Performance in Mobile IPv6 , Tran Cong Hung, Le Phuc, Tran Thi To Uyen (Posts and Telecommunications Institute of Technology, Vietnam), Hae Won Jung, Yoohwa Kang (ETRI, Korea)3. A Novel Call Admission Control Scheme for the IEEE 802.11e EDCA, Seoungyoul Oh, Jongmin Shin, Dongho Kwak, Cheeha Kim (POSTECH, Korea)4. Validation of VoIP System for University Network, Ryosuke Yamamoto, Fumikazu Iseki, Moo Wan Kim (Tokyo University of Information Sciences, Japan)5. A Mobile Reservation Protocol For Video Streaming , Hyunjae Yoo, Junho Yoon, Sooyong Lee, Hyelim Park, Kyungmin Go, Myungchul Kim (ICU, Korea), Kyounghee Lee (ETRI, Korea)	
Session 9D: Digital Broadcasting Technology (II) Chair: Jong Hyup Lee (Inje University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. A Wavelet based Filtered Multi-Tone, Roman M. Vitenberg (Wavetone Technologies Ltd, Israel)2. New Soft-decision Decoding Techniques for Adaptive Decision-Feedback Differential Detection, Young-Ki Kim, Won-Suk Choi, Soon-Chan Kwon, Jong-Soo Seo (Yonsei University, Korea)3. HTML Document Broadcast Method for Disaster Information Systems, Yuji Ishikawa (NTT DATA Corporation, Japan), Yukio Kosugi (Tokyo Institute of Technology, Japan)4. Simulation of a Digital Predistorter for an LDMOS Class AB Amplifier Modelised by Abuelma'Atti Model, Carole Raynal (TDF, France), Jean-Pierre Cances (University of Limoges, France)5. 2D/3D Mixed Service in T-DMB System Using Depth Image Based Rendering, KwangHee Jung, Young Kyung Park, Joong Kyu Kim (Sungkyunkwan University, Korea), Hyun Lee, KugJin Yun, NamHo Hur, JinWoong Kim (ETRI, Korea)	



TECHNICAL SESSIONS

Session 9E: Multimedia and Internet Systems and Services (V) Chair: Seung Yun Lee (ETRI, Korea)	Room Topaz II
<ol style="list-style-type: none">1. Adaptive Rate Control in Frame-layer for Real-time H.264/AVC, Myoung-Jin Kim, Kyoung-Hwan Kim, Min-Cheol Hong (Soongsil University, Korea)2. Retransmission Control in TCP with a Performance Enhancing Proxy, Yuichi Nishida (Okayama Univ, Japan), Wang Hui (Henan Univ. of Science and Technology, Japan), Hiroaki Matsumoto, Tokumi Yokohira, Yukinobu Fukushima (Okayama Univ, Japan)3. The Relational Properties among Results of Background Subtraction, Changgeol Kim, Jungik Cho, Yillbyung Lee (Yonsei University, Korea)4. The Searching Scalability of Peer-to-Peer System, Ahmad Tajuddin Samsudin (Telekom Research & Development, Malaysia), Nanna Suryana Herman (Technical University of Malaysia Melaka, Malaysia), Herwig Unger (Fernuniversität Hagen, Germany), Mat Kamil Awang (Telekom Research & Development, Malaysia)5. Fast Coding Mode Decision for Scalable Video Coding, Sunhee Lim, Jungyoup Yang, Byeungwoo Jeon (Sungkyunkwan University, Korea)	
Session 9F: Information Security Technology (V) Chair: Chin-Feng Lin (National Taiwan Ocean University, Taiwan)	Room Topaz III
<ol style="list-style-type: none">1. A Chaos-based Visual Encryption Mechanism in Integrated ECG/EEG Medical Signals, Chin-Feng Lin, Cheng-Hsing Chun (National Taiwan Ocean University, Taiwan)2. Protection Profile for Security Enhancement of Embedded Operating System for Mobile Terminals, Younseo Jeong (ETRI, Korea), Yeowung Yun (KOSYAS, Korea), Boheung Jung, Kiyong Kim (ETRI, Korea)3. Text Steganography by Changing Words Spelling, Mohammad Shirali-Shahreza (Sharif University of Technology, Iran)4. Just-on-Time Data Leakage Protection for Mobile Devices, Bo-heung Chung, Young-ho Kim, Ki-young Kim (ETRI, Korea)5. Cryptanalysis of Improved One-round Lin-Li's Tripartite Key Agreement Protocol, Meng-Hui Lim, Sanggon Lee, Hoonjae Lee (Dongseo University, Korea)	



TECHNICAL SESSIONS

Day 4 : February 20 (Wednesday)

Session 10 09:00 ~ 10:20

Session 10A: Wireless Communication Technology (X)

Room Emerald

Chair: Qinghai Yang (Inha University, Korea)

1. A Study of Providing the Integrity on Cluster System, JaeDeok Lim, ByeongCheol Choi, SoHee Park, JeongNyeo Kim (ETRI, Korea), ChoelHoon Lee (CNU, Korea)
2. A New Frequency Offset Estimation Scheme For Ultra-Wideband MB-OFDM Systems, Debarati Sen, Saswat Chakrabarti, R. V. Raja Kumar (Indian Institute of Technology, India)
3. Performance Analysis of System Architecture using Wireless Relay Station and Virtual MIMO in WiBro Uplink, Deog-Su Han (Samsung Electronics, Korea), Young-Min Seung (Korea Aerospace University, Korea), Ji-Hoon Lee (Samsung Thales, Korea), Sung-Joon Cho (Korea Aerospace University, Korea)
4. A Timing Synchronization Algorithm for OFDM Systems based on Geometry Character, Sheng Meng-Gang, Yao Zhi-Qiang (Xiang Tan University, China)
5. Adaptive Power Allocation in Energy-Constrained Wireless Ad-Hoc Networks, Gao Xiang, Hyung-Kun Park (Korea University of Technology and Education, Korea)

Session 10B: Digital Home Technology (I)

Room Ruby I

Chair: Jeong-Ju Yoo (ETRI, Korea)

1. A Polling-based Channel Access Control Mechanism to prolong a Lifetime of IEEE 802.15.4 LR-WPAN with a Main-powered PAN Coordinator, YunKang Hur, JeongDong Ryoo, JaeDoo Huh (ETRI, Korea)
2. Implementation of Service Mobility Using Information Sharing Algorithm in Home Network, Yun Jin Choi, Byung Chul Shin, Seong Gon Choi, Young hun Yoo (Chung Buk National University, Korea), Sang Kwon Kim (ETRI, Korea)
3. On use of xAP Home Automation Protocol for networking in critical environments, Folco Fioretti, Paola Pierleoni, Samuele Pasqualini (Università Politecnica delle Marche, Italy)
4. Analysis and Modeling of Multipath for Indoor Power Line Channel, Liu Liu, Tao Cheng, LuoYanan (Beijing JiaoTong University, China)
5. Isochronous data transfer by enhanced CTS on Wireless 1394 Network, Seong-Hee Park, Seong-Hee Lee, Il-Soon Jang, Sang-Sung Choi (ETRI, Korea)



TECHNICAL SESSIONS

Session 10C: E-Commerce and M-Commerce (I) Chair: Jin Seek Choi (Hanyang University, Korea)	Room Ruby II
<ol style="list-style-type: none">1. SCO Control Net for the Process-Driven SCORM Content Model, Hyun-ah Kim, Kwang-hoon Kim, Su-ki Paik (Kyonggi University, Korea)2. A Conceptual Subspace Clustering Algorithm in e-Learning, Huaiguo Fu, Mícheál Ó Foghlú (Waterford Institute of Technology, Ireland)3. Design and Implementation of Control & Communication Unit for Remote Injection System for u-Hospital, Suyoung Lim, Jungil Heo, Jinsoo Ahn, Wooshik Kim (Sejong University, Korea)4. Associations between E-remedial Instruction and Learning Outcome on E-learning, Su-Sui Lin (Hsiuping Institute of Technology, Taiwan), Kwo-Ting Fang (National Yunlin University of Science and Technology, Taiwan), Chien-Chung Tu (Transworld Institute of Technology, Taiwan)5. Extrinsic versus Intrinsic Motivations on Electronic Auction, Chwen-Yea Lin (Tatung Institute of Commerce and Technology, Taiwan), Chien-Chung Tu (Transworld Institute of Technology, Taiwan), Kwoting Fang (National Yunlin University of Science and Technology, Taiwan)	
Session 10D: Optical Networking Technology (I) Chair: Jong Hyup Lee (Inje University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. Survivability Schemes in Optical Cross Add and Drop Multiplexer, Mohammad Syuhaimi Ab-Rahman (Universiti Kebangsaan Malaysia, Malaysia)2. Segment Protection Algorithm with Load Balancing for Multicasting WDM Mesh Networks, Xingwei Wang (Northeastern University, China), Lei Guo (University of Electronic Science and Technology of China, China), Lan Pang, Juan Du, Feiming Jin (Northeastern University, China)3. Experimental Study on Economic Long-haul Transmission Link Using standard SMF and All EDFAs , Bo-Hun Choi (Gwangju University, Korea), Chang-Bong Kim (Kongju National University, Korea), Jesoo Ko (ETRI, Korea)4. Analysis of Successive Interference Cancellation Scheme using OOC code in Optical CDMA Systems, Tawfig Eltaif (Universiti Kebangsaan Malaysia, Malaysia), Hossam M. H. Shalaby (Alexandria University Alexandria, Egypt), Sahbudin Shaari (Universiti Kebangsaan Malaysia, Malaysia), Mohammad M. N. Hamarsheh (Multimedia University, Malaysia)5. HiperionCAD: a CAD Tool for Design and Optimization of Optical Telecommunication, Marcio Fontana, Fabiano F. Costa, Ugo B. Sangiorgi, Paulo A. D. Bichara, D. Guimaraes, Antonio C. de C. Lima (Federal University of Bahia, Brazil)	



TECHNICAL SESSIONS

Session 10E: Web Technology (I) Chair: Kyu Ouk Lee (ETRI, Korea)	Room Topaz II
<ol style="list-style-type: none">1. Commercial Portals Evaluation, Saeed Nourizadeh Azar, Amir Hossein jalali, Sadeg Falsafi (Islamic Azad University of Sahbestar, Iran)2. Document Retrieval Based on Key Information of Sentence, Dipesh Gautam, Miyoung Cho, Pankoo Kim (Chosun University, Korea)3. Selection of Training Period Based on Two-Window, Zhijie Ban (Inner Mongolia University, China), Zhimin Gu, Yu Jin (Institute of Technology, Beijing, China)4. Trust Type Based Semantic Web Services Assessment and Selection, Yukyong Kim, Kyung-Goo Doh (Hanyang University, Korea)5. Evolution of Structural Path Indexing Techniques in XML Databases: A Survey and Open Discussion, Su-Cheng Haw, Chien-Sing Lee (Multimedia University, Malaysia)	
Session 10F: Distributed Computing Technologies (I) Chair: Huaiguo Fu (TSSG, WIT, Ireland)	Room Topaz III
<ol style="list-style-type: none">1. Design and Implementation of a Consistent Update Method for Multiple File Replicas in a Distributed File System, Myung-Hoon Cha, Sang-Min Lee, Ki-Sung Jin, Young-Soo Min, Young-Kyun Kim (ETRI, Korea)2. Design of a Content Replacement Scheme using the p-based LRFU-k algorithm in Contents Delivery Networks, Hee Jin Roh, Younwoo Kim, Kwang Sun Ko, Young IK Eom (Sungkyunkwan University, Korea)3. An Efficient Grid Based Metadata Processing And Sharing Architecture For GEOSS, Mohammad Mehedi Hassan, Eui-Nam Huh (Kyung Hee University, Korea)4. Reducing CPU Power Cost of Cluster System, Soo-Cheol Oh, Seong-Woon Kim (ETRI, Korea)	
Coffee Break 10:20 ~ 10:40	



TECHNICAL SESSIONS

Session 11 10:40 ~ 12:00	
Session 11A: Wireless Communication Technology (XI) Chair: Qinghai Yang (Inha University, Korea)	Room Emerald
<ol style="list-style-type: none">1. RTL Designs of IEEE802.11n Wireless LAN system, Yuhei Nagao, Masayuki Kurosaki (Kyushu Institute of Technology, Japan), Hiroshi Ochi (Radrix Inc., Japan)2. An Adaptive Routing Algorithm for Wireless Mesh Networks, Minseok Oh (Kyonggi University, Korea)3. Decorrelating Closely-Placed Antennas by Pattern Design in Uniform Scattering Environments, Pooya Shariatpanahi, Babak Hossein Khalaj, Amir Ahmad Shishegar (Sharif University of Technology, Iran), Hamidreza Saligheh Rad (Harvard University, U.S.A.)4. A Robust Frequency Offset Estimation Scheme to Fractional Frequency Offset Variation for OFDM Systems, Sangho Ahn, Sanghun Kim (Sungkyunkwan University, Korea), Seung-Hwan Yoo, Sun Yong Kim (Konkuk University, Korea), Seokho Yoon (Sungkyunkwan University, Korea)5. A Novel Cross Layer NFCAC Game Algorithm in IEEE 802.16-based Multi-radio Heterogeneous Ad Hoc Networks, Yingji Zhong, Qinghai Yang, Zhiquan Bai, Kyung Sup Kwak (Inha University, Korea), Dongfeng Yuan (Southeast University, China), Ho Hwan Park (Inha University, Korea)	
Session 11B: Digital Home Technology (II) Chair: Jong Hyup Lee (Inje University, Korea)	Room Ruby I
<ol style="list-style-type: none">1. Design of Location-based Directory Facilitator in Context-Aware Environment, Sung-Jun Na, Dong-Uk Kim, Yoe-Jin Yoon, Dong-Ryeol Shin (Sungkyunkwan University, Korea)2. Time-Frequency Code Detection in UWB system, Sung-Woo Choi, Sang-Sung Choi (ETRI, Korea)3. Information Embedding Method for Home Printing of Certifications, Yoshiyasu Takahashi, Takaaki Yamada, Ryu Ebisawa, Yasuhiro Fujii, Satoru Tezuka (Hitachi Ltd., Japan)4. User Mobility Mechanism for Seamless Multimedia Service in Home Networks, Younghun Yoo, Byung Chul Shin, Seong Gon Choi (Chungbuk National University, Korea), Sang Kwon Kim (ETRI, Korea)5. Design of Protocol Adaptation Layer for IEEE 1394 over IEEE 802.15.3, Il-soon Jang, Seong-hee Lee, Seong-hee Park, Sang-sung Choi (ETRI, Korea)	



TECHNICAL SESSIONS

Session 11C: E-Commerce and M-Commerce (II) Chair: Jin Seek Choi (Hanyang University, Korea)	Room Ruby II
<ol style="list-style-type: none">1. A Framework for Context-Aware Service Recommendation, Dong Liu, Xiang Wu Meng, Jun Liang Chen (Beijing University of Posts and Telecommunications, China)2. Designing and Implementing Two Internet Based Exam Systems Using Synchronous and Asynchronous Models, M. Hassan Shirali-Shahreza (Yazd University, Iran), Mohammad Shirali-Shahreza (Sharif University of Technology, Iran)3. A Study on the Application of Patient Location Data for Ubiquitous Healthcare System based on LBS, Jinsoo Ahn, Jungil Heo, Suyoung Lim, Wooshik Kim (Sejong University, Korea)4. Integrated Service Platform for Personalized Exercise & Nutrition Management, Sadia Malik, Seung-Hun Park (Kyung Hee University, Korea)	
Session 11D: Optical Networking Technology (II) Chair: Muhammad Irfan (Sir Syed University of Engg & Tech, Pakistan)	Room Topaz I
<ol style="list-style-type: none">1. A New Waveband Switching Routing Algorithm in WDM Optical Networks, Lei Guo (University of Electronic Science and Technology of China, China), Xingwei Wang, Wei Ji, Weigang Hou, Tengfei Wu, Feiming Jin (Northeastern University, China)2. Optical Network Restoration and Migration Using OXADM, Mohammad Syuhaimi Ab-Rahman (Universiti Kebangsaan Malaysia, Malaysia)3. Signal Latency Evaluation and Signal Synchronization for Electrically and Optically Linked Interconnections, Shirazy Md. Shorab Muslim, Tae-Woo Lee, Hyo-Hoon Park (ICU, Korea)4. Implementation of Dynamic Channelization on SONET, M. Irfan Anis, M.Waqas, M .Sadiq, M. Javaid, Shafiq Ur Rahman, M. Arsalan (Sir Syed University Of Engineering & Technology, Pakistan)5. Optical Switching based on Position-Tracking algorithm to Realize “Moving Cells” in a RoF Network, Seungjin Lee, Namuk Kim, Hyunho Yun, Minho Kang (ICU, Korea)6. Modeling of Packet Switching Network with Relative Prioritization for Different Traffic Types, Aliev T.I., Nikulsky I.Y., Pyattaev V.O. (FSUE LONIIS, Russia)	



TECHNICAL SESSIONS

Session 11E: Web Technology (II) Chair: Haw Su-Cheng (F.I.T, Multimedia University, Malaysia)	Room Topaz II
<ol style="list-style-type: none">1. A Method for Distributing Web Applications, Ki-Hyuk Nam (ETRI, Korea), Ki-Seok Bang (Hallym University, Korea), Wan Choi (ETRI, Korea)2. Next Generation Proxy Servers, W. V. Wathsala , Buddhika Siddhisena, Ajantha S. Athukorale (University of Colombo School of Computing, Sri Lanka)3. VAST: Automatically Combining Keywords and Visual Features for Web Image Retrieval, Hai Jin, Ruhan He, Wenbing Tao, Aobing Sun (Huazhong University of Science and Technology, China)4. Feature Based Same Audio Perception method for Filtering of Illegal Music Contents, Bokyung Sung, Myungbum Jung, Junseok Ham, Jaekyung Kim, Junhyoung Park, Ilju Ko (Soongsil University, Korea)5. A Schema Change of Skype Users in User Intention and Social Behavior, Su-Sui Lin (Hsiuping Institute of Technology, Taiwan), Wei-Shen Tai, Kwo-Ting Fang (National Yunlin University of Science and Technology, Taiwan)	
Session 11F: Distributed Computing Technologies (II) Chair: Jens Myrup Pedersen (Aalborg University, Denmark)	Room Topaz III
<ol style="list-style-type: none">1. Ordered Performance Research in Interactive Application Layer Multicast, Jian-min Gao, Jing-feng Xue, Hui-mei Lu, Yuan-da Cao (Beijing Institute of Technology, China)2. Cluster Management in a Virtualized Server Environment, Jong-Geun Park, Jin-Mee Kim, Chang-Won Ahn, Young-Choon Woo (ETRI, Korea), Hoon Choi (Chung-Nam National University, Korea)3. Overlay Multicast Network Optimization and Simulation Based on Narada Protocol, Xing-feng Li, Bao-ping Yan, Wan-ming Luo (Chinese Academy of Sciences, China)4. A Peer Mutual Authentication Method using PKI on Super Peer based Peer-to-Peer Systems, Byeong-Thaek Oh, Sang-Bong Lee, Ho-Jin Park (ETRI, Korea)5. Self-Stabilizing Mechanism for High-Available Stock Trading System, Phil Doo Hong, Yong Woo Lee (Seoul Grid Center, Korea)	



REGISTRATION

<http://icact.org/registration/registration.asp>

- **Pre-registration period is from Nov. 30, 2007 to Dec. 31, 2007.**

(But the pre-registration of general participants, who are not main authors or speakers of ICACT2008, is allowed by Jan. 2, 2008.)

- In case of payment with credit card or wire-transfer, the remitter must be identified exactly by the name of author or attendee.

- Otherwise, you should additionally inform the remitter's name and wire-transfer confirmation document by email to operation@icact.org

- **You should request the notarized invitation letter at the same process of pre-registration by Dec. 31, 2007 in advance.**

- Because it may take a long time to receive by postal mail, we should prepare the notarized documents previously.

- Please take notice that US \$50, which is additional fee for notarization and relevant postal service, will be charged.

		Pre-registration Authors : before Dec. 31, 2007 Other Participants : before Feb. 2, 2008	On Site Registration On-site Registration is available for "Participants only"
Non-Member	General	US \$600 / ₩550,000	US \$650 / ₩600,000
	Student	US \$450 / ₩400,000	US \$500 / ₩450,000
Member *	General	US \$550 / ₩500,000	US \$600 / ₩550,000
	Student	US \$400 / ₩350,000	US \$450 / ₩400,000
Proceeding	Each volume	US \$50 / ₩50,000	
	Full set	US \$100 / ₩100,000	
Notarized invitation letter		US \$50 / ₩50,000	

Member * : Active IEEE member (Must show a valid IEEE ID)

Students must show a valid student ID at the time of registration or check-in.

Students fee applies to students who are enrolled in Undergraduate, Master, and Graduate programs.

Post-Doctorates and beyond must register as "General Participants"

Discount may apply for multiple paper registration.



Accommodation Fees

- Participants who completed registration and approval will be able to make reservations at a special conference rate.
 - **Standard hotel:** 95,000 Korea Won/ about 95 USD
(Standard number of person: 2, normal room rate: 240,000~280,000 Korea Won)
 - **Condominium** (66 square meters): 90,000 Korea Won/ about 90 USD
(Standard number of person: 4, normal room rate: 240,000 Korea Won)
 - **Condominium** (99 square meters): 110,000 Korea Won/ about 110 USD
(Standard number of person: 5, normal room rate: 360,000 Korea Won)

NOTICE

- The indicated room rate is for one room per one night which contains SURTAX and Service charge.
(Exchange Rate: About 1,000 Korea Won to the US dollar)
- **To foreign participants, special conference rates are applicable for Feb. 17-21. 2008**
(To native participants, reduced room rates are applicable **for Feb. 17-20. 2008**)
- In order to make reservations, please download at <http://icact.org/download/2008/hotel2008.doc> and fill the document of the file ([hotel2008.doc](#)).
- Then e-mail the document to the address below.
E-mail: pp@pp.co.kr, pp@bokwang.com, gina.kim@bokwang.com
Tel: +82-2-527-9501 (For english service, please press number "9")

PHOENIX PARK (<http://phoenixpark.co.kr/english/default.html>)

Phoenix Park, spread out on 16.5 million square meters, is a luxurious, world-class resort set in the picturesque mountains of Gangwon province.

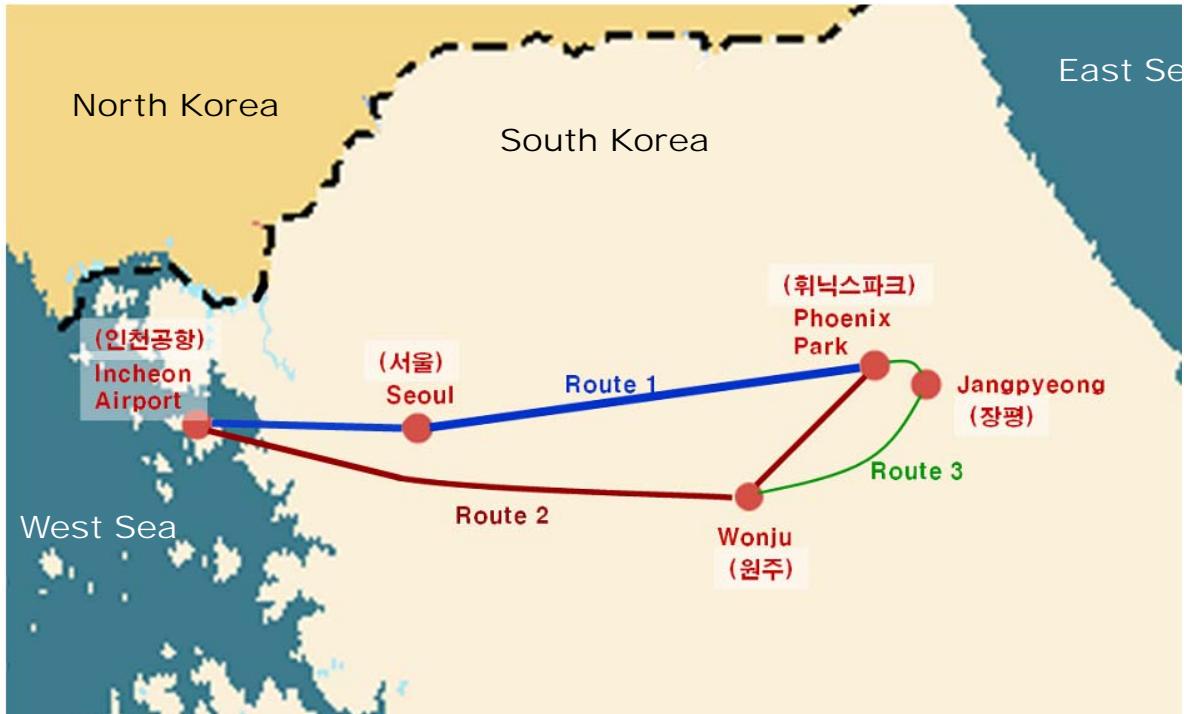
Throughout the year, we provide the best service and personal care to satisfy the needs of our guests in our deluxe hotels and condos and their recreational desires in our leisure facilities and on our ski slopes. No matter your age, fancy, or favorite pastime, there is always something for you to enjoy at Phoenix Park. Our facilities vary to provide all the comforts and wishes for the perfect family vacation or for the romantic getaway for young lovers.

The Phoenix Park experience is unforgettable for everyone. The amount of joy and excitement in the natural setting of Phoenix Park is unimaginable!!

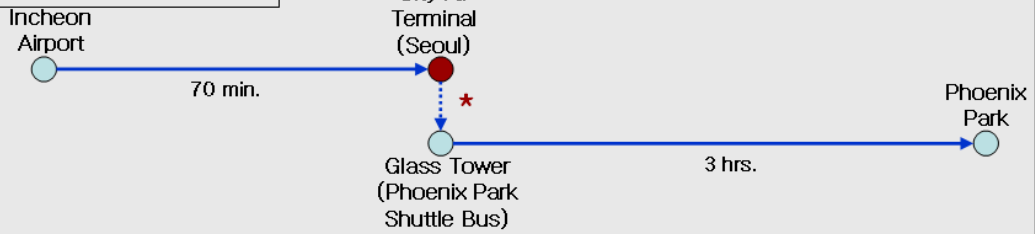
(Address : 1095 Myunon-ri Bongpyong-myun Pyeongchang county Gangwon-do, Korea)

Hotel

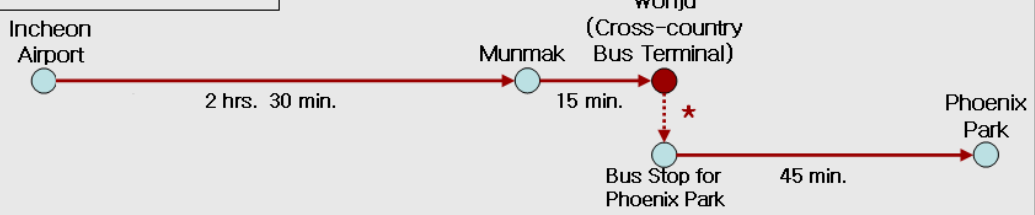
The hotel is conveniently located at the base of the mountain, so the guests have easy access to the ski slopes. The rooms are categorized as Korean style, western style, family oriented, VIP, and Royal suite. In addition, for your convenience, there are private ski lockers for each room in the lobby of the hotel.



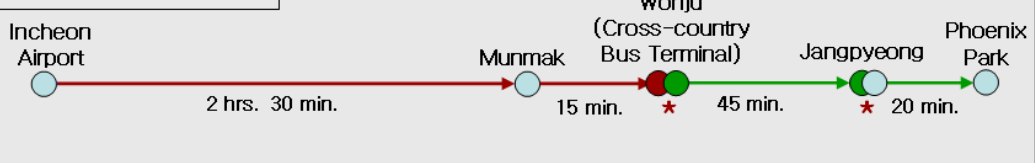
Route 1 : 4hrs 10mins



Route 2 : 3hrs 30mins

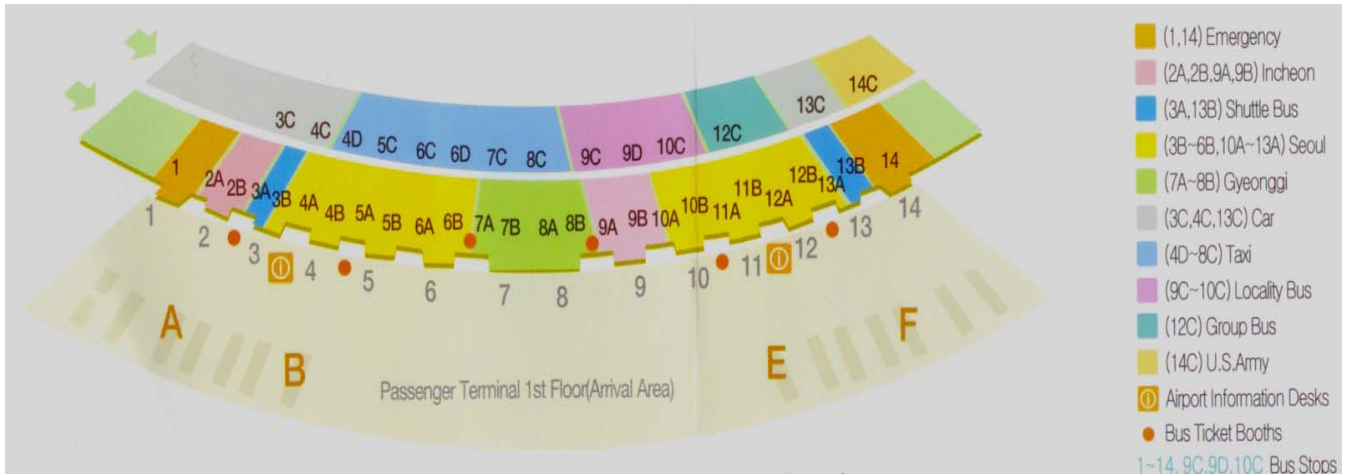


Route 3 : 3hrs 50mins



★ You should transfer the bus where star mark(★) is indicated, and the total time for each route does not include the time caused by transfer because it may be different case by case.

Incheon Airport Arrival Floor



Route information and ticket booths for buses are located at bus stops outside each exit on the 1st Floor (Arrivals).

You may get information on limousines and buses, and you can purchase all kinds of bus tickets at the General Bus Ticket Counter near the exit No. 2, 4, 10, 13 (indoor) and 6, 8 (outdoor) on the arrival floor of passenger terminal. (6 orange-colored spots)

For details, go to the nearest Bus Information Counter. (Tel. 032-741-6400)

● 4 indoor Bus Ticket Counters near the exit 2, 4, 10 and 13



● 2 outdoor Bus Ticket Counters near the exit 6 and 8





TRANSPORTATION (by Bus)

Route 1

Incheon Airport ↔ **Seoul** (Korea City Air Terminal, Samseong-dong)

← (**transfer**) → **Seoul** (Glass Tower, Samseong-dong) ↔ **Phoenix Park**

Incheon Airport ↔ Seoul (Korea City Air Terminal, Samseong-dong)				
First Bus		Last Bus		Remark
Incheon	Samsung-dong	Incheon	Samsung-dong	Departure Bus Stop : 4A, 10B Travel Time : 66 ~ 80 minutes Departure Time Interval : Every 10 ~ 15 min. One-way Fare : 14,000 won (Round-trip fare : 24,000won)
05:20	05:30	20:00	22:30	
Gimpo Airport ↔ Seoul (Korea City Air Terminal, Samseong-dong)				
First Bus		Last Bus		Remark
Gimpo	Samsung-dong	Gimpo	Samsung-dong	Travel Time : 45 ~ 55 minutes Departure Time Interval : Every 10 ~ 20 min. One-way Fare : 6,500won
07:35	05:30	22:20	20:00	

(TRANSFER) It takes about 10 minutes on foot between **Korea City Air Terminal** and **Glass Tower**.

- EXIT of KCAT Arrival Platform(2F)
- City Air Terminal Information Desk
- Escalator(2F→B1) at Information Desk



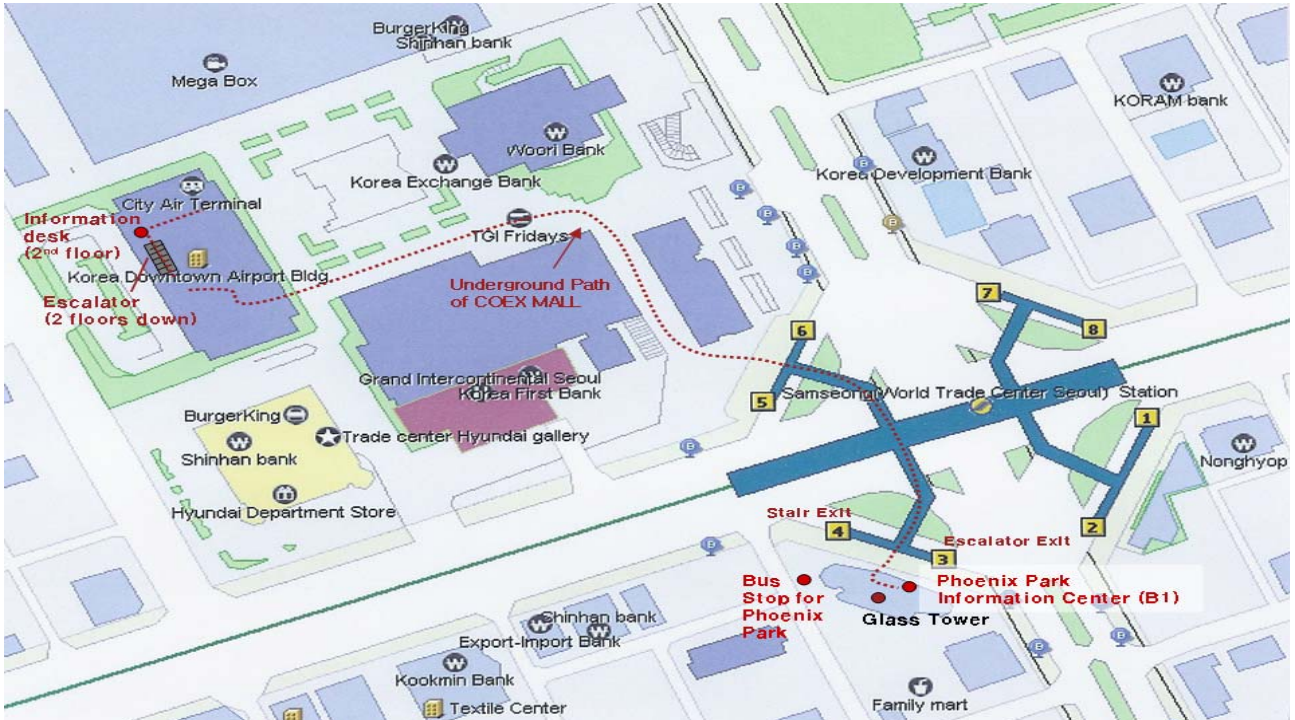
When you get off the bus and pass the auto-door exit, you will find a KCAT Information Desk where you can get some information. You can come down to B1 floor connected to the COEX MALL by using the escalator just at the left side of the KCAT Information desk.

When you come down from 2nd Floor to B1 floor of KCAT (Korea City Air Terminal), you can move to the Phoenix Park Information Center (B1 floor) in Glass Tower Building through the underground path of COEX MALL and SAMSEONG SUBWAY STATION.

If you want to visit the Phoenix Park Information Center, it is convenient to enter the Glass Tower Building (B1 floor) directly through the underground gate between EXIT 3 and EXIT 4.

Otherwise, if you'd like to come to the Bus Stop for Phoenix Park directly, you can pass the EXIT 3 (escalator) or EXIT 4 (stair) and go to the Bus Stop for Phoenix Park.

- Map between City Air Terminal and Glass Tower Bus Stop for Phoenix Park around Samseong Subway Station.



- Phoenix Park Information Office at Glass Tower(B1)



- Gate of the Glass Tower Building



- Exit 4 of the Samseong Subway Station



- Glass Tower Bus Stop for Phoenix Park



Seoul (Glass Tower, Samseong-dong) → Phoenix Park		
Departure Place	Departure Time	Remark
Glass Tower (Samseong Subway Station : Exit 3)	(SUN ~ FRI) 06:20, 09:10, 10:00, 13:00, 16:00 (SAT) 06:20, 09:10, 10:00, 13:00, 14:00, 16:00	One-way Fare : Adult : 14,000 won Children : 13,000 won Round-trip Fare : Adult : 26,000 won Children : 24,000 won

● Phoenix Park Hotel (ICACT 2007 Conference Site)



● Shuttle Bus Terminal at Phoenix Park



Phoenix Park → Seoul (Glass Tower, Samsung-dong)		
Departure Place	Departure Time	Remark
Phoenix Park (Ski House Parking Lot)	(FRI ~ WED) 04:30, 09:30, 13:00, 15:00, 17:00, 19:00, 21:30 (THU) 09:30, 13:00, 15:00, 17:00, 19:00, 21:30	Travel Time: 3 hours

Route 2

Incheon Airport ↔ (Munmak) ↔ **Wonju** (Cross-Country Bus Terminal)
 ← (transfer) → **Wonju** (Bus Stop) ↔ **Phoenix Park**

● Around the outdoor Ticket Counter



● Crosswalk to the Bus Stop for Wonju



● The sign for Cross-country Bus Stop



● Bus Station bound for several provinces



● Bus Stop for Wonju



Incheon Airport ↔ (via Munmak) ↔ Wonju (Cross-Country Bus Terminal)						Remark
Incheon → Wonju			Wonju → Incheon			
Incheon	Munmak	Wonju	Wonju	Munmak	Incheon	
09:10	11:35	11:50	06:00	06:15	08:40	Departure Bus Stop : 9C Travel Time : 2hr 45min (It may take more time by traffic jam according to the bad weather conditions etc.) Departure Time Interval : Every 1 hour One-way fare : 12,700won
10:10	12:35	12:50	07:00	07:15	09:40	
11:10	13:35	13:50	08:00	08:15	10:40	
12:10	14:35	14:50	09:00	09:15	11:40	
13:10	15:35	15:50	10:00	10:15	12:40	
14:10	16:35	16:50	11:00	11:15	13:40	
16:10	18:35	18:50	13:00	13:15	15:40	
17:10	19:35	19:50	14:00	14:15	16:40	
18:10	20:35	20:50	15:00	15:15	17:40	
19:10	21:35	21:50	16:00	16:15	18:40	
20:10	22:35	22:50	17:00	17:15	19:40	
21:10	23:35	23:50	18:00	18:15	20:40	

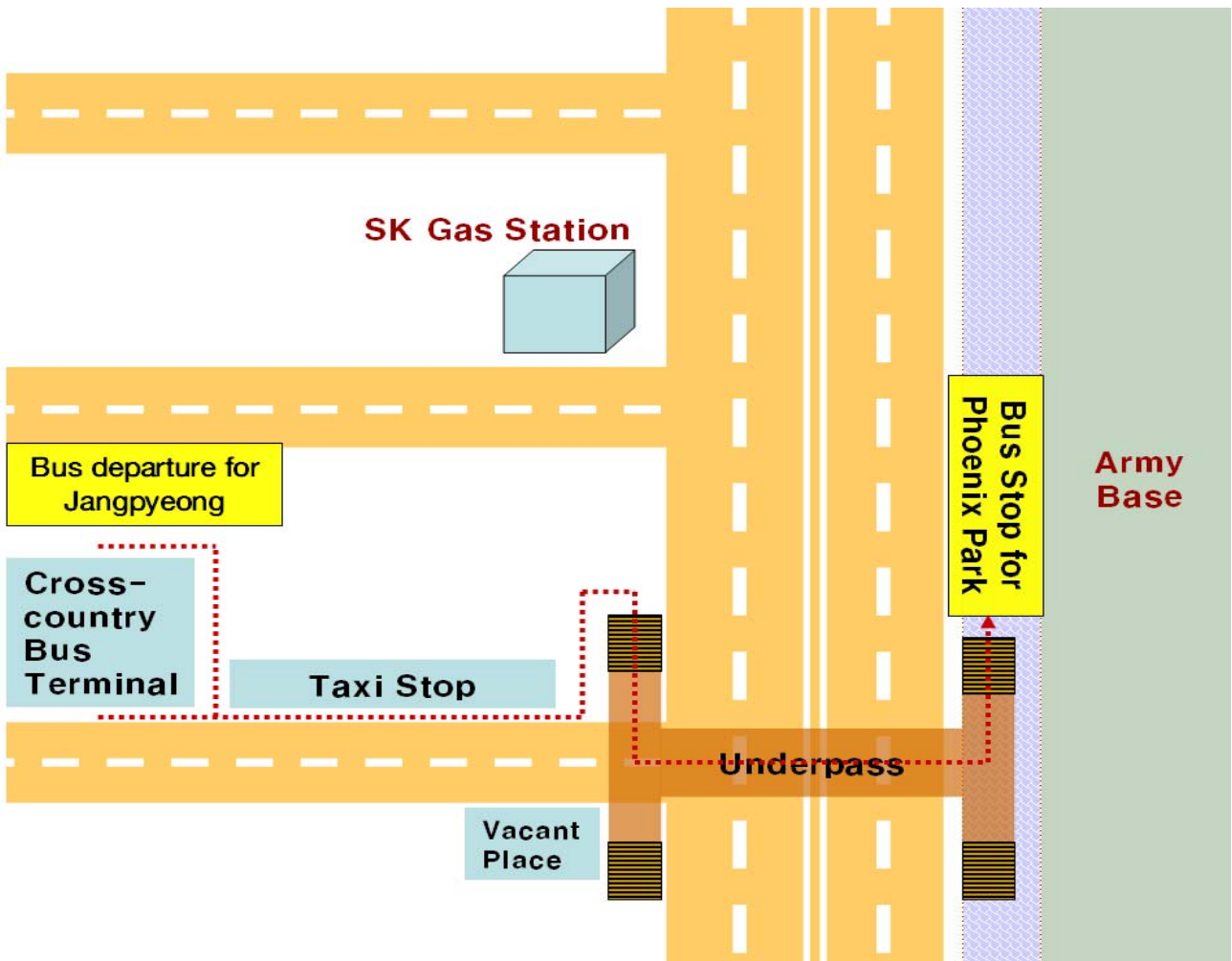
● Bus from Incheon arrived at Wonju Terminal



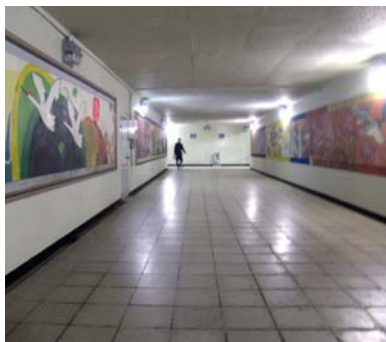
● Front-side of Wonju Cross-country Bus Terminal



● Map between Wonju Cross-country Bus Terminal and Bus Stop for Phoenix Park around underpass



- Underpass Entrance from Bus Terminal
- Underground Crosswalk
- Bus Stop for Phoenix Park



(TRANSFER) It takes about 3 minutes on foot between **Wonju Cross-country Bus Terminal** and **Bus Stop for Phoenix Park**.

Wonju (Bus Terminal) ↔ Phoenix Park			
Period	Wonju → Phoenix Park	Phoenix Park → Wonju	Remark
FEB.17 ~ 	07:58	09:10	Travel Time : 45 minutes Free Shuttle : no charge Frequently, departure time of the free shuttle bus for Phoenix Park might be earlier or later than 10 minutes because of the several unavoidable reasons. Thus, you must be at the bus stop at least 15 minutes earlier than the departure time as shown on the left side of this table. This bus stop is not dedicated to the free shuttle bus for Phoenix Park, but it is shared by many kinds of other buses. In order to get on the bus exactly, it might be useful to show the following Korean Sentence. 휘닉스파크(Phoenix Park)로 가는 무료셔틀버스를 태워주세요. (Please help me to take the free shuttle bus for Phoenix Park.)
	08:28	09:40	
	11:28	12:40	
	11:58	13:20	
	15:48	17:00	
	17:38	22:30	
FEB.18 ~ 	07:58	09:10	
	11:28	12:40	
	17:38	22:30	

Route 3

Incheon Airport ↔ (Munmak) ↔ **Wonju** (transfer at Cross-Country Bus Terminal)
 ↔ **Jangpyeong** (transfer at Bus Stop for **Phoenix park**) ↔ **Phoenix park**

● Bus Ticket Counter for Jangpyeong (No. 9)



● Cross-country Bus for Jangpyeong (Below No. 4)



(1st transfer)

Wonju (Bus Terminal) ↔ Jangpyeong (Bus Terminal)		
Wonju → Jangpyeong	Jangpyeong → Wonju	Remark
07:00	07:40	Travel Time : 45 minutes
07:50	07:45	
08:00	08:50	One-way fare : 3,600 won
09:15	09:40	
09:50	09:50	Because Jangpyeong is not the final bus stop, you'd better request the bus driver to let you get off at Jangpyeong Bus Terminal. In this case, you can ask for help by showing the following Korean sentence. 장평 (Jangpyeong) 버스정류장에 내려주세요. (Please let me get off at Jangpyeong Bus Terminal.)
10:05	10:50	
11:00	11:00	
11:15	11:10	
11:35	12:20	
11:50	13:20	
12:10	14:35	
12:25	14:40	
13:20	14:50	
13:40	15:45	
14:25	16:00	
15:05	16:20	
15:25	17:00	
16:30	17:30	
16:50	17:55	
17:20	18:30	
18:00	18:45	
18:15	19:45	
18:55	20:30	
19:40		

● Jangpyeong Bus Terminal Building



● Jangpyeong Bus Transfer Terminal



● Free Shuttle Bus for Phoenix Park



(2nd transfer) Free Shuttle for Phoenix Park departs at the telephone booth of Jangpyeong Bus Terminal. (You can find the bus stop easily and it takes less than a minute on foot.)

Jangpyeong (Bus Terminal) ↔ Phoenix Park								
Terminal	Jangpyeong → Phoenix Park		Phoenix Park → Jangpyeong		Remark			
Period	~ Feb.17	Feb.18 ~	~ Feb.17	Feb.18 ~	Travel Time : 20 minutes Free Shuttle : no charge			
MON ~ THU	09:00	17:00	09:00	08:30 16:30			08:30	
	10:00	18:00	11:00	09:30 17:30			10:30	
	11:00	19:00	13:00	10:30 18:30	12:30			
	12:00	20:00	15:00	11:30 19:30	14:30			
	13:00	21:00	17:00	12:30 20:30	16:30			
FRI ~ SUN	14:00	20:00	13:30	13:30 22:30	18:30			
	15:00		14:30	14:30	20:30			
	16:00		15:30	15:30	22:30			
	09:00	13:00	17:00	21:00	08:30	12:30	16:30	20:30
	10:00	14:00	18:00		09:30	13:30	17:30	22:30
	11:00	15:00	19:00		10:30	14:30	18:30	
	12:00	16:00	20:00		11:30	15:30	19:30	

● Phoenix Park Hotel (ICACT 2007 Conference Site)



● Phoenix Park



For other transportation-relevant information, please look at the URL as follows

<http://www.phoenixpark.co.kr/english/default.html>

<http://www.airport.or.kr/airport/traffic/bus/busList.iii?flag=E&fake=1169370664407>

<http://www.kcat.co.kr/index.html?v=eng>

1. VOLTAGE

In Korea, 220 Volt and 60 Herz outlets with Type C or Type F are most commonly used now.



2. WEATHER

Korea has four distinct seasons - spring, summer, fall and winter. Skiing season starts from late November and lasts to early March. Especially the inland area of Gangwon province is most snowy, windy and coldest in winter season. Therefore you must prepare and wear the winter clothes for the cold weather. For your correct weather information, please refer to the following URL of Korea Weather Forecasting Authority..

http://web.kma.go.kr/eng/wea/wea_02_01.jsp?code1=11D10301

3. 1330 KOREA TRAVEL PHONE

For English assistance or travel Information, just dial 1330, and a bilingual operator will offer you detailed tourism information.

http://english.tour2korea.com/01TripPlanner/TouristInfo/1330.asp?kosm=m1_7&konum=2

4. Other Useful Information about Korea

Please refer to the following URL of Incheon International Airport, Korea Tourism Organization etc.

<http://www.airport.or.kr/eng/airport/> (Incheon International/domestic Airport)

<http://gimpo.airport.co.kr/eng/index.jsp> (Gimpo International/domestic Airport)

<http://www.tour2korea.com/> (Korea Tourism Organization)

<http://eng.gwd.go.kr/main.html> (Information about Gangwon-Do)

<http://en.yes-pc.net/> (Information about PyeongChang area)



MEMO

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