IEEE

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Toward Network Innovation beyond Evolution

icact
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2007

Phoenix Park, Korea
Feb. 12−14, 2007

FINAL PROGRAM

Host

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Message from the ICACT2007 General Chairman and Organizing Chairman!

On behalf of the ICACT2007 Organization and Operation Committee, we 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 2007. The ICACT2007, the 9th of the series conference, 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 info-communication age. We hope that you will enjoy both the excellent technical content and recreational parts of the meeting.
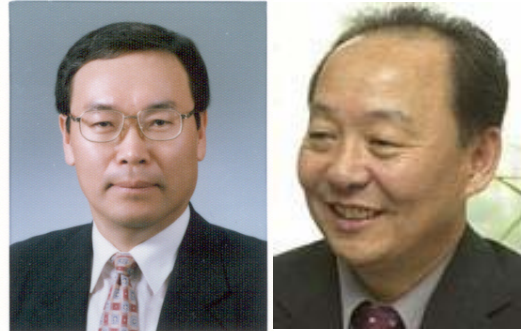
Info-communication network is emerging into IP-based convergence services such as VoIP, IPTV, and Fixed and Mobile Convergence (FMC) which are in line with the conference theme "Toward Network Innovation beyond Evolution." No one can deny that technology has already permeated diverse aspects of human life. Innovative network evolution will make it possible to connect whoever and wherever by guaranteeing QoS provisioning broadband multimedia services. By sharing new idea on network innovation beyond evolution, ICACT2007 will give an excellent opportunity to experience the most advanced IT technology around the world.

In closing, we would like to express our sincere appreciation for the committee members and the referees for their contributions who have been helping us to prepare the event. We also sincerely thank all the authors for the papers on their precious technical achievements. We have no doubt of successful ICACT2007, and you will enjoy both the high technical talks of the sessions and the beautiful landscapes of Phoenix Park.

We look forward to seeing you on February 12-14, 2007 at Phoenix Park, Korea.

IEEE ICACT2007
Professor Minho Kang, General Chairman
Dr. Thomas Byeong-Nam Yoon, Organizing Chairman

Message from the Technical Program Committee Chair

I would like to welcome to ICACT2007! It is a great pleasure to host this 9th ICACT2007 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.

Korea has richly benefited from deploying the high-speed Internet and Cellular networks providing various IT services all over the country. Approximately 87%, i.e. 14 millions, of Korean households use the high-speed Internet services, and 83%, i.e. 40 millions, of Korean people use the CDMA mobile phones now. The International Telecommunications Union(ITU) announced that Korea topped the list of countries in the Digital Opportunities Index(DOI).

In Korea, the Ministry of Information and Communications(MIC) drew up the IT839 Strategy in February, 2004, and upgraded it to u-IT839 in February, 2006 which includes 8 Services, 3 Infrastructures, and 9 New Growth Engines. 8 Services are HSDPA/W-CDMA, WiBro, Broadband Convergence(IPTV), DMB/DTV, u-Home, Telematics/LBS, RFID/USN Application, and IT Services. 3 Infrastructures are Broadband convergence Network(BcN), Ubiquitous Sensor Network(USN), and Soft Infraware. 9 New Growth Engines are Mobile Communications/Telematics Devices, Broadband/Home Network Devices, Digital TV/Broadcasting Devices, Next-Generation Computing/Peripheral Devices, Intelligent Service Robot, IT System-on-Chip(SoC), RFID/USN Devices, Embedded Software, and Digital Contents/Software Solutions. With a goal to develop a new virtuous cycle, the MIC has been introducing 8 new services for prompting investment into 3 essential networks, which will be the highways for 9 new sectors to grow fast. In the year 2006, Korea launched WiBro and HSDPA commercial services for the first time in the world.

The theme of ICACT2007 is "Toward Network Innovation beyond Evolution." ICACT 2007 consists of 66 technical sessions including 4 poster sessions and an invited session with two remarkable world experts. The TPC carefully selected a limited number of 432 papers from 26 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 increasingly competitive future communications and Internet markets. I am sure there will be an abundance of intelligent debate and information exchange, a look at what is new in the field and technology, and lots there.

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
ICACT2007 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.

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February 11 (Sunday)

15:00 ~ 18:00	Registration (2nd Floor, Phoenix Park Hotel)

Day 1 : February 12 (Monday)

08:00 ~ 18:00	Registration (2nd Floor, Phoenix Park Hotel)						
Room	**Emerald**	**Ruby I**	**Ruby II**	**Topaz I**	**Topaz II**	**Topaz III**	**Diamond I**
09:00 ~ 10:20	**Session 1A** Wireless Communications (I)	**Session 1B** Mobile Communications (I)	**Session 1C** Multimedia and Internet Systems, and Services (I)	**Session 1D** RFID & USN Technologies (I)	**Session 1E** Systems & Software Engineering(I)	**Session 1F** IT Service Technology (I)	**-** -
10:20 ~ 10:40	**Coffee Break**						
10:40 ~ 12:00	**Session 2A** Wireless Communications (II)	**Session 2B** Mobile Communications (II)	**Session 2C** Multimedia and Internet Systems, and Services (II)	**Session 2D** RFID & USN Technologies (II)	**Session 2E** Systems & Software Engineering(II)	**Session 2F** IT Service Technology (II)	**Session 2G** Poster Session(I)
12:00 ~ 13:20	**Lunch**						
13:20 ~ 14:40	**Session 3A** Wireless Communications (III)	**Session 3B** Mobile Communications (III)	**Session 3C** Multimedia and Internet Systems, and Services (III)	**Session 3D** RFID & USN Technologies (III)	**Session 3E** Systems & Software Engineering(III)	**Session 3F** E-Commerce and M-Commerce(I)	**-** -
14:40 ~ 15:00	**Coffee Break**						
15:00 ~ 16:20	**Session 4A** Wireless Communications (IV)	**Session 4B** Mobile Communications (IV)	**Session 4C** Multimedia and Internet Systems, and Services (IV)	**Session 4D** RFID & USN Technologies (IV)	**Session 4E** Broadband Satellite & HAPS	**Session 4F** E-Commerce and M-Commerce(II)	**Session 4G** Poster Session(II)
16:20 ~ 16:40	**Coffee Break**						
16:40 ~ 18:00	**Invited Session (Phoenix Ballroom)**						
18:30 ~ 20:30	**Opening Ceremony and Banquet (Phoenix Ballroom)**						

Day 2 : February 13 (Tuesday)							
08:00 ~ 18:00	Registration (2nd 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 Communications (V)	Mobile Communications (V)	Multimedia and Internet Systems, and Services (V)	RFID & USN Technologies (V)	Network Management, Operation and Maintenance(I)	IPv6 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 Communications (VI)	Mobile Communications (VI)	Multimedia and Internet Systems and Services (VI)	RFID & USN Technologies (VI)	Network Management, Operation and Maintenance(II)	IPv6 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 Communications (VII)	Information Security Technology (I)	Next Generation Network Technology (I)	Optical Networking Technology(I)	Network Management, Operation and Maintenance(III)	ASP, WAS, P2P, CDN, and XML Technologies	-
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 Communications (VIII)	Information Security Technology (II)	Next Generation Network Technology (II)	Optical Networking Technology(II)	Digital Home Technology (I)	Portable Internet and Internet Telephony	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 Communications (IX)	Information Security Technology (III)	Next Generation Network Technology (III)	Optical Networking Technology(III)	Digital Home Technology (II)	Digital Broadcasting Technology	-

Day 3 : February 14 (Wednesday)							
08:00 ~ 12:00	Registration (2nd Floor, Phoenix Park Hotel)						
Room	**Emerald**	**Ruby I**	**Ruby II**	**Topaz I**	**Topaz II**	**Topaz III**	**Diamond I**
09:00 ~ 10:20	**Session 10A** Wireless Communications (X)	**Session 10B** Information Security Technology (IV)	**Session 10C** Next Generation Network Technology (IV)	**Session 10D** Communication Network Topology & Planning(I)	**Session 10E** Telematics Technology(I)	**Session 10F** GRID, Distributed Computing Technologies & Services	**-** -
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	**Session 11A** Wireless Communications (XI)	**Session 11B** Information Security Technology (V)	**Session 11C** Next Generation Network Technology (V)	**Session 11D** Communication Network Topology & Planning(II)	**Session 11E** Telematics Technology(II)	**Session 11F** CDMA Communications	**-** -

| Invited Session   16:40 ~ 18:00 Feb. 12 (Mon.)   Phoenix Ballroom |
| Chair : Dr. Hyeong-Ho Lee (ICACT2007 TPC Chair) |

Keynote Speech 1: Future Internet and GENI

Speaker : Prof. Dae Young KIM
(Professor of Chungnam National University, Korea)

The current Internet is suffering from its fundamental flaws not able to meet to the diverse and disruptive applications requirements. There's emerging motivation to design the network of the future from scratch, i.e., by taking the so-called clean-slate approach, freeing ourselves from every assumption lying under the current Internet. This talk gives a brief introduction to this new research area on this network of the future, aka Future Internet, and the related global deployment activities of GENI, a virtual shared network research environment.

Keynote Speech 2: Challenge and Opportunity of NGI and IPv6: Experiences in China

Speaker : Prof. Jianping WU
(Professor of Computer Science and Director of Network Research Center, Tsinghua University, China)

Internet has gained great success in the past twenty years, but there are many technology challenges to today's Internet such as scalability (or expansion), high performance of end-to-end transmission, security (or trustiness), real time (or large scale video) transmission and mobile communication over Internet etc. Next Generation Internet (NGI) focus on developing solutions for these challenges and gives us so many opportunities to contribute new technologies and applications. IPv6 provides a large scale of IP address space and makes today's Internet to connect not only computers but also all of electronic devices. It is believe that IPv6 will be a core protocol and play a very important role on the NGI. The project CNGI, China Next Generation Internet, will be introduced and some experiences in the largest backbone network of CNGI, CNGI-CERNET2, will be given such as native IPv6, IPv4 over IPv6 transition and IPv6 source address validation, etc.

Day 1 : February 12 (Monday)

Session 1   09:00 ~ 10:20

Session 1A: Wireless Communications (I)   Room Emerald
Chair: Wah Ching Lee (Hong Kong Polytechnic University, China)

1. Analysis of Delay Process and Performance Evaluation for Multimedia Wireless LANs, Wuyi Yue(Konan University, Japan), Yutaka Matsumoto (I. T. S., Inc. ,Japan)

2. Automatic Modulation Recognition using Support Vector Machine in Software Radio Applications, Cheol-Sun Park, Won Jang, Sun-Phil Nah(Agency for Defense Development, Korea),Dae Young Kim(Chungnam Nat'l Univ., Korea)

3. A slot allocation mechanism for diverse QoS types in OFDMA based IEEE 802.16e systems, Harsha Gowda, Ramya Lakshmaiah, Manjot Kaur, Chandrashekar Mohanram, Manjeet Singh, Shashidhara Dongre(Larsen and Toubro Infotech Limited, India)

4. Performance Compensation of IEEE 802.11e QoS stations with Coexistence of Legacy 802.11 stations, Sungwoo Byun, Seungbeom Lee, Sin-Chong Park(Information and Communications University, Korea)

5. DFT-based Channel Estimation Using CIR Adaptation in OFDM Systems, Chan-Ho An, Seung-Hun Jang, Jun-Kyoung Lee, Jeong-Wook Seo, Dong-Ku Kim(Yonsei University, Korea)

Session 1B: Mobile Communications (I)   Room Ruby I
Chair: Wuyi Yue (Konan University, Japan)

1. Service Creationusing Parlay based on Wireless Ubiquitous Network, Moo Wan Kim, Fumikazu Iseki(Tokyo Joho University, Japan)

2. Adjusted Replica Allocation in Ad Hoc Networks for Improving Data Accessibility, Min Meng, Xiaoling Wu, Jie Yang, Byeong-Soo Jeong, Sungyoung Lee(Kyung Hee University, Korea)

3. High-effect Location-Aided Routing Scheme for Ad Hoc Environment, Shih Yang, Lin(Nanhua University, Taiwan), Lin Yu Wu(chung-Cheng University, Taiwan),Chien-Ying, Lai(Nanhua University, Taiwan), Ren-Song Ko(chung-Cheng University, Taiwan), Guang-Ming Wu(Nanhua University, Taiwan)

4. Improving Fairness of TCP Flows crossing Wired and Wireless Ad-Hoc Networks, Hyung-Deug Bae, Nam-Hoon Park(ETRI, Korea)

5. Ad-hoc Protocol Performance Analysis Based on Emergency Medical Data, Hun-Jung Lim, Soo-Jin Jung, Jong-Hyouk Lee, Young-Ju Han, Tai-Myoung Chung(Sungkyunkwan University, Korea)

Session 1C: Multimedia and Internet Systems and Services (I) Room Ruby II
  Chair: Eung Kyeu Kim (Hanbat National University, Korea)

1. Development of Multimedia Player for Digital Image based on the Web and Mobile, DAL-HWAN YOON, DONG-JOO BAE, Oh-Hoon Kwon, JAE-HO MOON, IL-YANG HONG(Semyung University, Korea)

2. Fast Sub-pixel Search Control by using Neighbor Motion Vector in H.264, Byeongdu La, Minyoung Eom, Yoonsik Choe(Yonsei University, Korea)

3. On Automatic Contextual Metadata Generation for Personal Digital Photographs, Supheakmungkol SARIN(WASEDA University, Japan), Toshinori NAGAHASHI(Corporate R & D Div., SEIKO EPSON Corporation, Japan), Tadashi MIYOSAWA(Corporate R & D Div., SEIKO EPSON Corporation, Japan), Wataru KAMEYAMA(WASEDA University, Japan)

4. Camera Motion Tracking using Background Geometry, Jung-Jae Yu, Jae-Hean Kim, Chang-Joon Park, In-ho Lee,Ki-hwan Joo(ETRI, Korea)

5. Compatibility by Service Type Model for Automatic Web Services Substitution, Rewat Pianwattanaphon, Twittie Senivongse(Chulalongkorn University, Thailand)

Session 1D: RFID & USN Technologies (I) Room Topaz I
  Chair: Jindam Mok (ETRI, Korea)

1. IGAP: an Information GAthering Protocol for mobile user in infrastructureless area, Donghun Lee, Euisin Lee, Suchang Park, Bongsu Kim, Younghwan Choi, Sang-Ha Kim(Chungnam National University, Korea)

2. An integrated mobile RFID service architecture between B2B and B2C networks , Sangkeun Yoo, Junseob Lee, Yongwoon Kim, Hyungjun Kim(ETRI, Korea)

3. Efficient Dynamic Framed Slotted ALOHA for RFID Passive Tags, Xu Huang, Son Le(University of Canberra, Australia)

4. A Study on Management of Active RFID Tag Memory Map Using Caching, Seok-Young Jang , Sang-Hwa Chung, Hyun-Pil Kim(Pusan National University, Korea)

5. Demand Analysis and Market Strategies of u-Health, Moon-Koo Kim, Jong-Hyun Park, Kyoung-Yong Jee(ETRI, Korea)

6. Implementation of a 433 MHz Active RFID System for U-Port, Won-Ju Yoon, Sang-Hwa Chung, Hyun-Pil Kim, Seong-Joon Lee(Pusan National University, Korea)

Session 1E: Systems & Software Engineering(I) Room Topaz II
Chair: Hee Chang Jung (NIA, Korea)

1. Verifying Behavior of L4 Microkernel based Mobile Phone, Ki-Seok Bang(Hallym University, Korea), Su-Young Lee(Korea University, Korea), Ki-Hyuk Nam(ETRI, Korea), Wan-Yeon Lee, Young-Woong Ko(Hallym University, Korea)

2. Human Sensibility Evaluation Algorithm Based on the Personality-group Templates of EEGs., Seung-Jin Woo, Dong-Jun Kim(Cheongju University, Korea), Jeong-Whan Lee, Kyeong-Seop Kim(Konkuk University, Korea)

3. Development of Prototype Board for IEEE802.11n and IP Set, Yuki Yamanaka, Yuhei Nagao, Kota Higashi, Masayuki Kurosaki(Kyushu Institute of Technology, Japan), Hiroshi Ochi(Radrix Inc, Japan)

4. Linux BYTEmark Benchmarks: A Performance Comparison of Embedded Mobile Processors, Seungkwon Cho, Youngil Kim(ETRI, Korea)

5. VisuGATOR - A Visualization Tool for Networking Protocol Analysis, Yu-Ju Lin(Charleston Southern University USA), Sunguk Lee, Haniph A. Latchman(University of Florida, USA)

Session 1F: IT Service Technology (I) Room Topaz III
Chair: Yang Hao (Beijing University of Posts & Telecommunications, China)

1. Designated Confirmer Proxy Signature Scheme, Ji-Seon Lee, Jik Hyun Chang(Sogang University, Korea)

2. Trends of Biometric and Test Techniques of K-NBTC, Dae Cheol Shin, Jason Kim(KISA Korea-National Biometric Test Center, Korea), Bongnam Noh(Chonnam National University, Korea)

3. An Integrated SOA Framework for e-Collaboration, T. Subramanian, G.S.V.R. Krishna Rao, A. Seetharaman(Multimedia University. Malyasia)

4. UI Player Framework for Mobile Devices, Minhong Yun, Jaeho Lee, Woosik Kim, Sunja Kim(ETRI, Korea)

5. Design and Implementation of the Automated Desktop Migration System Using RFID, Taein Hwang, Hojin Park(ETRI, Korea), Jin Wook Chung(Sungkyunkwan University, Korea)

Coffee Break   10:20 ~ 10:40

Session 2   10:40 ~ 12:00

Session 2A: Wireless Communications (II)   Room Emerald
    Chair: Woo Yong Choi (Dong-A University, Korea)

1. Design of Single Carrier modulation system with Frequency Domain Equalization, Yasushi Tsue, Yuhei Nagao, Masayuki Kurosaki(Kyushu Institute of Technology, Japan), Satoru Ishii(Futaba Corporation, Japan), Hiroshi Ochi(Radrix Inc, Japan)

2. The Performance Comparison between Selective Receiver Structure and MRRC, Lijun Liu, Myoung-Seob Lim(Chonbuk National University, Korea)

3. Class of Minimum Bit Error Rate Algorithms, Tamer A. Samir(Etihad Etisalat-mobily, KSA), Said Elnoubi(Alexandria University, Egypt), Ayman Elnashar(Etihad Etisalat-mobily, KSA)

4. Efficient Reliable Multicast MAC Protocol for IEEE 802.11 Wireless LANs, Woo-Yong Choi(Dong-A University, Korea)

5. Efficient Implementation of Synchronization in OFDM System Based on FPGA, Wang Qiang , Tao Cheng, Huang Wei(Beijing Jiaotong University, China)

6. Enhanced Limited Round Robin with a Priority policy for Bluetooth, Sunguk Lee, Byunjoo Park, Haniph Latchman(University of Florida, USA)

Session 2B: Mobile Communications (II)   Room Ruby I
    Chair: Agya Mishra (MANIT Bhopal, India)

1. Development of University Network based on Wireless Ubiquitous Network, Hiroaki Kikuchi, Fumikazu Iseki, Moo Wan Kim(Tokyo Joho University, Japan)

2. An approach on making use Multiple Interface of Mobile node simultaneously, Taewan You, Seungyun Lee(ETRI, Korea)

3. High-Effective Dynamical Schedule Algorithm for Wireless Broadcast, Shih Yang, Lin(Nanhua University, Taiwan), Lin Yu Wu(chung-Cheng University, Taiwan), Guang-Ming Wu(Nanhua University, Taiwan), Ren-Song Ko(chung-Cheng University, Taiwan)

4. Minimum Cost Routing for Multiple Source-Destination Pairs in Random Access Wireless Multi-hop Networks, XuanTung Hoang, Younghee Lee(Information and Communications University, Korea)

5. Middleware Interoperability based Mobile Healthcare System, Nam-Ho Kim, Yi-Seok Jeong, Seung-Jae Song, Dong-Ryeol Shin(Sungkyunkwan University, Korea)

Session 2C: Multimedia and Internet Systems and Services (II)　　　Room Ruby II
Chair: Eung Kyeu Kim (Hanbat National University, Korea)

1. A Technological Development of VR Contents Production for Constructing Virtual Marine System , Hyun-Cheol Lee, Eun-Seok Kim, Nak-Keun Joo, Gi-Taek Hur(University of Dohgshin, Korea)

2. Dependent Quantization for Scalable Video Coding, Danu Pranantha, Munchurl Kim(Information and Communications University, Korea), Sangjin Hahm, Byungsun Kim, Keunsik Lee, Keunsoo Park(Korean Broadcasting System, Korea)

3. Low-delay Dynamic QoS Scheduling for Assured Service in Diffserv Network, Tadasuke Minagawa, Tokuhiro Kitami and Tetsushi Ikegami(Meiji University, Japan)

4. The Implementation of Layer-three Site Multihoming Protocol (L3SHIM), Kunwoo Park, Hosik Cho, Yanghee Choi, Taekyung Kwon(Seoul National University, Korea), Taewan Youy, Seungyun Lee(ETRI, Korea)

5. An Area Efficient High Performance DCT Distributed Architecture for Video Compression, Yanling Chen, Xixin Cao, Qingqing Xie, Chungan Peng(Peking University, China)

Session 2D: RFID & USN Technologies (II)　　　　　　　　　　Room Topaz I
Chair: Hyungkeun Lee (Kwangwoon University, Korea)

1. A Data Delivery Mechanism to Support Mobile Users in Wireless Sensor Networks, Euisin Lee, Younghwan Choi, Soochang Park, Donghun Lee, Sang-Ha Kim(Chungnam National University, Korea)

2. An ID-based USN Management Architecture Model, Yong-Woon KIM, Jun-Seob LEE, Sang-Keun Yoo and Hyoung-Jun KIM(ETRI, Korea)

3. RFID Authentication Protocol for Anti-Counterfeiting and Privacy Protection, Yung-Chin Chen, Wei-Lin Wang(Asia University, Taiwan), Min-Shiang Hwang(National Chung Hsing University, Taiwan)

4. The Concentric Clustering Scheme for Efficient Energy Consumption in the PEGASIS, Sung-Min Jung, Young-Ju Han, Tai-Myoung Chung(Sungkyunkwan University, Korea)

5. NACA: A New Adaptive CSMA/CA Algorithm of IEEE 802.15.4 in Beacon-enabled Networks, Junkeun Song, Kee-Young Shin(UST-ETRI, Korea), Misun Yu, JinWon Kim, Pyeong Soo Mah(ETRI, Korea)

Session 2E: Systems & Software Engineering(II)　　　　Room Topaz II
Chair: Hee Chang Jung (NIA, Korea)

1. Hashing Directory Scheme for NAND Flash File System, Seung-Ho Lim, Chul Lee, Kyu-Ho Park(KAIST, Korea)

2. Formal Security Policy Model for a Common Criteria Evaluation, Junkil Park, Jin-Young Choi(Korea University, Korea)

3. FPGA Implementation of a GLST-MIMO System, Kota HIGASHI, Yuhei NAGAO, Masayuki KUROSAKI, Hiroshi OCHI(Kyushu Institute of Technology, Japan)

4. QoS RED Buffer Management Scheme of Intelligent Gateway Gadget based on a Wireless LAN, Kyoung-Ju Noh, Chang-Seok Bae(ETRI, Korea)

5. Detecting Faulty Percepts in a Context-Aware Ubiquitous System, Bilal Ahmed, Young-Koo Lee, Sungyoung Lee(Kyung Hee University, Korea)

Session 2F: IT Service Technology (II)　　　　Room Topaz III
Chair: An Thanh Nguyen (Posts & Telecom. Institute of Technology, Vietnam)

1. Implantable Bio system design for displacement measurement of living life , Choi Myung-suk, Lee Sang-won, Kim Jong-chul, Cho Jun-dong(Sungkyunkwan University, Korea), Kim Jin-kwon, Shin Hang-sik, Lee Myung-ho, Cho Un-sun, Kim Jae-seok(Yonsei University, Korea)

2. Design of Open APIs for Personalized IPTV Service, Jihye Lyu, Shinjee Pyo, Jeongyeon Lim, Munchurl Kim(Laboratory for Multimedia Computing, Communications, and Broadcasting, Korea), Sunhwan Lim, Sangki Kim(ETRI, Korea)

3. Development of Intelligent Home Health-Care Box Connecting Medical Equipments and Its Service Platform, Chun-Hung Wang(Institute for Information Industry, Taiwan), Mong-Fong Horng(Shu-Te University, Taiwan), Jeng-Wei Lee,Yu-Chan Liu, Ren-Shang Tsai, Wei-Tong Wang, Lan Chang, Yaw-Huang Kuo, Pau-Choo Chung, Kuo-Feng Ssu(National Cheng Kung University, Tainan, Taiwan)

4. Supporting Collaborative Learning Activities with IMS LD, Yu Dan , Chen XinMeng(Wuhan University, China)

5. A Comparative Study and Benchmarking on XML Parsers, Su Cheng Haw, G. S. V. Radha Krishna Rao(Multimedia University, Malaysia)

Session 2G: Poster Session (I)	Room Diamond I

1. The Economic Value of User-Controllable Internet Speed Service, Young-Min Key, Jung-A Kwon, Inkyu Lee, Sang-Chul Han, Jee Hyung Lee(ETRI, Korea)

2. Tracing the Defect Location(TDL), Jeong-Cheol Lee, Dae-Young Kim(Chungnam National University, Korea)

3. Conceptual Designs for Trend Analysis System: a tool for Corporate Foresight, Nae-Yang Jeong(Korea University of Science and Technology, Korea), Jeong-Seok Park, Tae-Young Heo(ETRI, Korea)

4. Design of Multimodal Interface Framework, Yong-Hee Lee, Dong-Woo Lee, Eun-Jung Choi, Jun-Seok Park(ETRI, Korea)

5. Design and Implementation of the Smart Healthcare Frame Based on Pervasive Computing Technology, Youngho Jeen, Jiyoung-Kim, Jaeil Park(Ajou University, Korea), Peom Park(Ajou U & Humintec Co.Ltd., Korea)

6. AgWebs: Web Services based on Intelligent Agent Platform, Seung-Hyun Lee, Kee-Hyun Choi, Ho-Jin Shin and Dong-Ryeol Shin(Sungkyunkwan University, Korea)

7. Face Recognition Using 3D Line Edge Map Robust to Expression Changes and Occlusions, Hye-mi Kim(ETRI, Korea), Ho-Chul Shin, Seong Dae Kim(KAIST, Korea)

8. The New Modeling for Semantic Representation of Moving Objects in Video, Chang Choi, Miyoung Cho, Pankoo Kim(Chosun University, Korea)

9. An Efficient Retrieval of Annotated Images based on WordNet, Kwangsu Hwang, Junho Choi, Pankoo Kim(Chosun University, Korea)

10. An Arbitrary Point Tracking using Multi-scale Refined Optical Flow, Jaekwang Lee, Chang-Joon Park, In-Ho Lee(ETRI, Korea)

11. Color Interpolation with Variable Color Ratio and High Frequency Based on the External Divide, Sangwook Park, Changjoon Park, Inho Lee(ETRI, Korea)

12. An Anisotropic Diffusion Based on Diagonal Edges, Hye Suk Kim, Jae Myeong Yoo, Mi Seon Park, Toan Nguyen Dinh, Guee Sang Lee(Chonnam National University, Korea)

13. MRI Artifact Cancellation due to Unknown Respiratory Motion, Eung-Kyeu Kim(Hanbat National University, Korea), Young-Jae Lee(Jeonju University, Korea)

14. Two Texture Segmentation of Document Image Using Wavelet Packet Analysis, Geum-Boon Lee, Wilfred O. Odoyo, Jae-Hoon Lee, Il-Yong Chung, Beom-Joon Cho(University of Chosun , Korea)

15. Efficient Fast Intra Mode Decision using Transform Coefficients , G. Hwang, J. Park, B. Jung(Sungkyunkwan Univ, Korea), K. Choi, Y. Joo, Y. Oh(Samsung Electronics, Korea), B. Jeon(Sungkyunkwan Univ, Korea)

16. Design and Implementation of Advanced Directory Facilitator for Efficient Searching, Dong-Uk Kim, Gun-Ha Lee, Kyu Min Lee, Seung-Phil Heo, Kee-Hyun Choi, Dong-Ryeol Shin(Sungkyunkwan University, Korea)

Session 2G: Poster Session (I)	Room Diamond I

17. Windows Security Patch Auto-Management System Based on XML, Jung-jin Park, Jin-sub Park(Daejeon Univieristy, Korea),Jeong-gi Lee(Korea Electronics Technology Institute, Korea),Bong-hoi Kim(Ubiquitous Network Communications Corp., Korea),Geum-boon Lee, Beom-joon Cho(Chosun University, Korea)

18. Automatic Discovery and Installation of Wearable Bio Signal Devices in Ubiquitous Healthcare System, JY Jung, JW Lee(ETRI, Korea)

19. U-Share Service Structure Design for Efficient Development of P2P Applications, Sang-Ok Lee, Il-Woo Lee, Ho-Jin Park(ETRI, Korea)

20. A Study on the Implementation of a wireless Ad-hoc Sensor Network based on the IEEE 1451.5, Jungil Heo, Jaehwan Kim, Jungho Seo, Suyoung Lim, Junhong Ahn, Jinsoo Ahn, Wooshik Kim, Taesoo Lee(Sejong University, Korea)

21. Esto NS-Debugger: The Non-stop Debugger for Embedded Systems, In-geol Chun(ETRI, Korea), Choon-oh Lee(ICU, Korea), Duk-kyun Woo(ETRI, Korea)

22. RFID Middleware System Supporting Priority Service, Sung-Mee Park, Jeong-Hwan Song, Woo-Yong Choi, Chae-Soo Kim, Sang-Wan Lee, Jung-Ja Kim(Dong-A University, Korea)

23. Composition Elements and their Characteristics of the business model for Providing Mobile RFID Service, Daeseung Park(KUST-ETRI, Korea), Seok-ji Park(ETRI, Korea)

24. Methodology for Automatic Synthesis of Wargame Simulator using DEVS, Kim Ju Young, Shim Kwang Hyun(ETRI, Korea)

Lunch   12:00 ~ 13:20

Session 3	13:20 ~ 14:40

Session 3A: Wireless Communications (III)   Room Emerald
   Chair: Woo Yong Choi (Dong-A University, Korea)

1. Concurrent Multi-Channel Transmission (CMCT) MAC Protocol in Wireless Mobile Ad Hoc Networks, Cheng-Shien Lin, Meng-Chun Wueng, Ting-Hung Chiu, Shyh-In Hwang(Yuan-Ze University, Taiwan)

2. A Communication Architecture for Supporting Mobile User in Wireless Sensor Networks, Soochang Park, Donghun Lee, Euisin Lee, Minsook Jin, Younghwan Choi, Sang-Ha Kim(Chungnam National University, Korea)

3. Number of Antenna Considerations and Power Allocation in MIMO Broadcast Channels, Abolfazl Falahati, Mehdi Bayat(Iran University of Science & Technology, Iran)

4. Performance Analysis of High Order Modulation Schemes in the wireless Communication System, Inkwon Seo(LG Electronics, Korea), Seyoung Won, Younglok Kim(Sogang University, Korea)

5. Efficient FPGA Implementation of Spread Spectrum Transceiver, Li Si, Tao Cheng(Beijing Jiaotong University, China)

Session 3B: Mobile Communications (III)   Room Ruby I
   Chair: Kyung Soo Choi (ETRI, Korea)

1. Mission support for emergency operators, Maria Teresa Aviles, Roberto Becchini (Motorola Electronics spa, Italy)

2. The Design and Implementation of Dual-mode Voice Storage Service which supports CDMA and WiBro network, Dohyung Kim, Minhong Yun, Sunja Kim(ETRI, Korea), Cheol-Hoon Lee(Chungnam National University, Korea)

3. A WiMAX-based Connectionless Approach for High Mobility MANET, Hsien-Chou Liao and Cheng-Jung Lin(Chaoyang University of Technology, Taiwan)

4. Multi-channel Multi-Transceiver Routing Protocol for Wireless Mesh Network, John Paul M. Torregoza, Won-Joo Hwang (Inje University, Korea)

5. A Semantic Fragrance Trail based Scalable Service Discovery in MANET, Daewoong Kim, Saehoon Kang, Younghee Lee, Dongman Lee(Information and Communications University, Korea), Kim Jeong Seon(Korea Telecommunication, Korea)

Session 3C: Multimedia and Internet Systems and Services (III)   Room Ruby II
    Chair: Hyungkeun Lee (Kwangwoon University, Korea)

1. P2P Honeypot to Prevent Illegal or Harmful Contents From Spreading in P2P network, Hogyun Lee, Taekyong Nam(ETRI, Korea)

2. Content-Based Image Retrieval using Shape Information of Central Object, Se-Young Jang, Hoon-Sung Kwak(Chonbuk National University, Korea)

3. Performance Analysis of Session Initiation Protocol on Emulation Network using NIST NET, Riri Fitri Sari, Pedro Libratu Putu Wirya(University of Indonesia, Indonesia)

4. Measuring Similarity between Trajectories using Motion Verbs in Semantic Level, Miyoung Cho, Chang Choi, Pankoo Kim(Chosun University, Korea)

5. Secure Scalable Streaming for Integrity Verification of Media Data, Hyoungshick Kim(Samsung Electronics, Korea)

Session 3D: RFID & USN Technologies (III)   Room Topaz I
    Chair: Yung-Chin Chen (Asia University, Taiwan)

1. Virtual Sink Algorithm for Receiver Based Forwarding in Wireless Sensor Networks, Juneho Moon, Jongkeun Na, Chong-kwon Kim(Seoul National University, Korea)

2. REAR: Reliable Energy Aware Routing Protocol for Wireless Sensor Networks, Kee-Young Shin, Junkeun Song, JinWon Kim, Misun Yu, Pyeong Soo Mah(UST-ETRI, Korea)

3. CAISMS: A Context-Aware Integrated Security Management System for Smart Home , Joon-Sic Cho, Seon-Ho Park, Young-Ju Han, Tai-Myung Chung(Sungkyunkwan University, Korea)

4. An Energy Efficient Topology Control Protocol in Wireless Sensor Networks, Seungki Hong, Yeon-Jun Choi, and Sun-Joong Kim(ETRI, Korea)

5. Radio Frequency Identification in Food Supervision, DING Zhen-hua, LI Jin-tao, FENG Bo(Institute of Computing Technology, China)

Session 3E: Systems & Software Engineering(III)	Room Topaz II
Chair: Ying-Ren Chien (GICE,National Taiwan University, Taiwan)	

1. An Analysis Patterns for Information Retrieval in Intelligent Responsive Space, Hoyeon Ryu(ICU, Korea), Misoo Kwon, Gunhee Kim and Sungdo Ha(KIST, Korea)

2. Design and implementation of Auto Tempo Detection algorithm, Hyo-Moon Cho, Si-Kong Lee, Snag-Bong Yang, Sang-Bock Cho(University of Ulsan, Korea)

3. Design and Implementation of Customer-based OMP Architecture, Eun-Young Cho(ETRI, Korea), Kyu Hou , MinHo Jeung(ICU, Korea), Seong-Yong Choi(POSDATA, Korea), Ho-Jin Choi, In-Young Ko(ICU, , Korea), ByoungHo Yae(ETRI, Korea)

4. Implementation of 10Gb Ethernet Switch Hardware Platform with a Network Processor and a 10Gb EMAC, Sang-Woo Lee, Yong-Sung Jeon, Ki-Young Kim, Jong-Soo Jang(ETRI, Korea)

5. Performance Optimization of Java Virtual Machine on Dual-Core Technology for Web Services – A Study, Chong Kam Mun, G.S.V.R. Krishna Rao, Hai-Shuan Lam, C.Eswaran, Somnuk Phon-Amnuaisuk (Multimedia University, Malaysia)

Session 3F: E-Commerce and M-Commerce(I)	Room Topaz III
Chair: Won-suk Lee (ETRI, Korea)	

1. Advance Banking System Features with emphasis on Core banking, Zahra Ebadi(Iran Telecommunication Research Center, Iran)

2. A Study of UniSQL Encryption System : Case Study of Developing SAMS, Yong Soon KIM(Korea Education & Research Information Service, Korea), Eui Kyeong Hong(University of Seoul City, Korea)

3. A New Digital Rights Management System In Mobile Applications Using H.264 Encryption, Yang Liu, Chun Yuan, Yuzhuo Zhong(Tsinghua University, China)

4. Considerations of Extending SQL on Encrypted Data in UniSQL , Yong Soon KIM(Korea Education & Research Information Service, Korea), Eui Kyeong Hong(University of Seoul City, Korea)

5. A Rough Set Approach to Grouping Goods in Electronic Commerce, Qiguo Duan, Duoqian Miao(Tongji University, China)

Coffee Break   14:40 ~ 15:00

Session 4   15:00 ~ 16:20

Session 4A: Wireless Communications (IV)   Room Emerald
Chair: Hee Chang Jung (NIA, Korea)

1. Adaptive Hybrid Automatic Repeat Request (ARQ) with a Novel Packet Reuse Scheme for Wireless Communications, D. Yang, W.C. LEE(Hong Kong Polytechnic University, China)

2. Performance Evaluation of the Sleep Mode Operation in the IEEE 802.16e MAC, Min-Gon Kim, Minho Kang(OIRC, Information and Communications University, Korea), JungYul Choi(KT Corporation, Korea)

3. An Improved Low-Complexity Resource Allocation Algorithm for OFDMA Systems with Proportional Data Rate Constraint, Abolfazl Falahati, Majid R. Ardestani(Iran University of Science and Technology, Iran)

4. A generalized analysis for search strategies in UWB signal acquisition, Young-Bin Joung, Dahae Chong, Seokho Yoon(Sungkyunkwan University, Korea), Sun Yong Kim(Konkuk University, Korea)

5. A Modified VS LMS Algorithm, Li Yan, Wang Xinan(Shenzhen Graduate School of PKU, China)

6. Half-Chase Algorithm of Non-soft Decision Decoding Based on Majority, Chun-Fong Kuo, Hsin-Kun Lai, Erl-Huei Lu(Chang Gung University, Taiwan)

Session 4B: Mobile Communications (IV)   Room Ruby I
Chair: Rosilah Hassan (University of Strathclyde, United Kingdom)

1. A Location-Dependent Data Encryption Approach for Enhancing Mobile Information System Security, Hsien-Chou Liao, Po-Ching Lee, Yun-Hsiang Chao, Chin-Ling Chen (Chaoyang University of Technology, Taiwan)

2. Minimising knowledge specification costs in a cellular network expert system, Tan Cheng Hong(Motorola Malaysia Software Center Global Software Group, Malaysia)

3. On Surveillance Quality of Sensor Networks with Faulty Sensor Nodes, Meng-Chun Wueng, Shyh-In Hwang(Yuan Ze University, Taiwan)

4. An Adaptive MAC Protocol Based on Path-Diversity Routing in Ad hoc Networks, Hyungkeun Lee (Kwangwoon University, Korea), Jang-Yeon Lee, Jin-Woong Cho(Korea Electronics Technology Institute, Korea)

5. Personalized Mobile-oriented Web Service Orchestration System, YANG Hao, CHEN Jun-Liang, PENG Yong and XM Meng(Beijing University of Posts & Telecommunications, China)

Session 4C: Multimedia and Internet Systems and Services (IV)   Room Ruby II
Chair: El-Sayed El-Alfy (King Fahd University of Petroleum and Minerals, Saudi Arabia)

1. The Ranking Peer for Hybrid Peer-to-Peer Real Time Video Streaming, Ahmad Tajuddin Samsudin(Telekom Research & Development Serdang, Malaysia), Nanna Suryana Herman(National Technical University College of Malaysia), Mat Kamil Awang(Telekom Research & Development Serdang, Malaysia), Senior Member IEEE

2. An Experimental Study on the Performance of Haptic Data Transmission in Networked Haptic Collaboration, Yonghee You, Mee Young Sung, Nam-Joong Kim, Kyungkoo Jun(University of Incheon, Korea)

3. Methods for Performance Improvement of The access to Internet Server Farm based on Task Scheduling Techniques, S. Tragulthongwatana and C. Saivichit(Chulalongkorn University, Thailand)

4. A Multi-channel Symbol Timing Recovery Architecture for 10GBASE-T System, Ying-Ren Chien, Jan-Hwa Lee, Hen-Wai Tsao(National Taiwan University, Taiwan), Wei-Lung Mao(National Formosa University, Taiwan)

5. A Fast Block Type Decision Method for H.264/AVC Intra Prediction, ZHANG Kun, YUAN Chun, LI Qiang, ZHONG Yuzhuo(Tsinghua University, China)

Session 4D: RFID & USN Technologies (IV)   Room Topaz I
Chair: Seungki Hong (ETRI, Korea)

1. A Study on a Sequenced Directed Diffusion Algorithm for Sensor Networks, Jaeshin Jang(Inje University, Korea)

2. A Design and Implementation of Wireless Sensor Network Security on Nano-Qplus Platform, JinWon Kim(ETRI, Korea), Junkeun Song, Kee-Young Shin(ETRI-UST, Korea), Misun Yu, Pyeong Soo Mah(ETRI, Korea)

3. Efficient, Real-Time Short Address Allocations for USN Devices Using LAA (Last Address Assigned) Algorithm, Ho-In Jeon(Kyung-Won University, Korea), Yeonsoo KIM(KT, Korea)

4. S-Code : USN Node Identification Scheme for Management and Mobility, Jaeho Lee, Chul-Hyun Ahn, Sunmoo Kang(NIA, Korea), Jaiyong Lee(Yonsei University, Korea)

5. Analysis and Simulation of RFID Anti-collision Algorithms, Tao Cheng, Li Jin(Beijing Jiaotong University, P.R.China)

Session 4E: Broadband Satellite & HAPS   Room Topaz II

Chair: Jindam Mok (ETRI, Korea)

1. HAP-Satellite architecture supporting efficient multilayered routing, Pasquale Pace, Gianluca Aloi(University of Calabria, ITALY)

2. Tracking Loop with Dynamic Gain Controlled DPLL in Software GPS Receiver, P. T. Ho(National Taiwan University, Taiwan), W. L. Mao(National Formosa University, Taiwan), Y. F. Tseng(University of California, USA), F. R. Chang, H. W. Tsao(National Taiwan University, Taiwan)

3. Inter-System Handover Analysis in Integrated Terrestrial and GEO Satellite Communication Networks for Seamless Mobility, Tae Chul Hong, Kun Seok Kang, Do-Seob Ahn, Ho-Jin Lee (ETRI, Korea)

4. New Acquisition Method in GPS Software Receiver with Split-Radix FFT Technique, W. L. Mao(National Formosa University, Taiwan), W. H. Lin(National Taiwan University, Taiwan), Y. F. Tseng(University of California, USA), H. W. Tsao, F. R. Chang(National Taiwan University, Taiwan)

5. Multi-QoS Routing for LEO Satellite Networks, Wang Ping, Gu Xue-mai, Liu Gong-liang(Harbin Institute of Technology, China)

6. A WFMT Downlink Transmitter for Low Earth Orbit Satellite, Roman M. Vitenberg(Wavetone Technologies Ltd, Israel)

Session 4F: E-Commerce and M-Commerce(II)   Room Topaz III

Chair: Won Cheol Lee (Soongsil University, Korea)

1. An E-Commerce Model using Peer-to-peer Technology and Personal Blog, Byeong-Thaek Oh, Ho-jin Park(ETRI, Korea)

2. The Affecting Factors Of Customer's Satisfaction For SMEs / ECommerce Websites In Chiang Mai, Ukrit Marang(Maejo University, Thailand)

3. One Service-oriented Architecture Based Enterprise Application Integration Platform, Xuesong Chen(Jiangxi University of Finance & Economics, UFIDA Software Co., Ltd., China), Hua Xu(Tsinghua University, China)

4. Value-based Mobile Service Classification for B2E Applications in Tourism Industry, Chien-Chih Yu, Hsiao-ping Chang(National ChengChi University,Taiwan)

5. A Novel Algorithm For The Multi-Level Semantic Information Of Image Searching, Ouyang-Yi, Zhang-Zhiyong(University of Zhejiang Gongshang,China)

Session 4G: Poster Session (II)   Room Diamond I

1. A Study on Synchronization of the OBS Satellite Communication System, Kyung Soo Choi, Jin Ho Jo and Seong Pal Lee (ETRI, Korea)

2. Prospects Identification Scheme for Supermarkets by Classification of Customer Behavior Using Time Based Analysis of Transactional Data, Adil Mehmood Khan, Faraz Idriss Khan, Sungyoung Lee, Young-Koo Lee(Kyung Hee University, Korea)

3. Design and Implementation of a File Spanning among Multiple OSDs in OASIS File System, Myung-Hoon Cha, Hong-Yeon Kim, June Kim, Myung-Joon Kim(ETRI, Korea)

4. Conflict Detection and Resolution method in WS-ECA framework, Won-suk Lee, Seung-yun Lee(ETRI, Korea), Kyu-chul Lee(Chungnam National University, Korea)

5. Performance Measurement and Analysis of High-Performance Parallel Applications over Lambda Grid , Dongwook Kim(ETRI, Korea), Hyun-Wook Jin, Karpjoo Jeong, Jonghyun Lee(Konkuk University, Korea),   Minki Noh(Sungkyunkwan University, Korea)

6. QIM Watermarking for Image with Two Adaptive Quantization Step-sizes, Yong-seok Seo, Won-gyum Kim, Young-ho Suh, Won-geun Oh(ETRI, Korea), Chi-jung Hwang(Chungnam National Univ., Korea)

7. Strong Designated Verifier Signature Scheme with Message Recovery, Ji-Seon Lee, Jik Hyun Chang(Sogang University, Korea)

8. An Improved Timestamp-Based Password Authentication Scheme Using Smart Cards, Al-Sakib Khan Pathan, Choong Seon Hong(Kyung Hee University, Korea)

9. Intranet Security Evaluation Using Hacking Techniques, Gyoo-Yeong Jeong(Hanbat National University, Korea), Dong-il Seo(ETRI, Korea), Soo-Gab Kwon, Jeong-Ho Kim(Hanbat National University, Korea)

10. A Modification for Fast Handover in Hierarchical Mobile IPv6, Hanh Van Nguyen, Soong Hwan Roh , Jung Kwan Ryu(Kongju National University, Korea) , Sejoon Park(Korean Telecom,, Korea)

11. Auto Picture Classification Using a Structure Simplicity of the Picture and Face Region Detection, Myoung-Bum Chung, Il-Ju Ko(Soongsil University, Korea)

12. The impact of phase-ripple Characteristic on WPON Performance, Eui-Suk Jung(Yonsei University, Korea) , Seung-Hyun Jang, Byoung-Whi Kim(ETRI, Korea), Seong-Ryeol Ryu, Seung-Hyeub Oh(Chung-Nam National University, Korea), Sang-Kook Han(Yonsei University, Korea)

13. ST-FL and HTU: Tunnel Allocation and Routing Algorithm in MG-OXC Networks, Won-Hyuk Yang, Kyoung-Min Yoo, Sang-Heon Shim and Young-Chon Kim(Chonbuk National University, Korea)

14. All-Optical Flip-Flop With Inverted Output Based On Optical Bistable Fabry-Perot Laser Diode, Nguyen Le Hoang, Yong Deok Jeong, Jeong Sik Cho , Yong Hyub Won(Information and Communications University, Korea)

15. A Compensation Method for WDM/SCM-PON Channel Distortion, Dong-Min Seol, Chul Soo Lee, Seunghyun Jang, Eui-Suk Jung, Byoung-Whi Kim(UST-ETRI, Korea)

16. Hybrid UWB Multi-Piconet Network Interference Modeling and Performance Enhancement by 6-Bands MB-OFDM, Yang Zeng, Ning Han, Sung Hwan Sohn, Jae-Moung Kim(Inha University, Korea)

Session 4G: Poster Session (II)	Room Diamond I

17. Block Type Pilot Protection Technique for Clipping in OFDM Systems, Jeong-Sang Park, Jae-Kwon Lee(ETRI, University of Science & Technology, Korea), Jin-Up Kim(ETRI, Korea)

18. Balancing the transmission characteristics for sharing frequency spectrum, Taekjin Hwang(ETRI, Korea), Sanggee Kang(Kunsan National Univ., Korea), Heonjin Hong(ETRI, Korea)

19. Performance Evaluation of TH-BPPM and TH-BPAM with Private MAC in UWB Ad-hoc Networks, A. Al Parvez, M. A. Khan, M. E. Hoque, Xizhi An, Kyung Sup Kwak(Inha University, Korea)

20. Analysis of Energy Consumption and Sleeping Protocols in PHY-MAC for UWB Networks, M. A. Khan, A. Al Parvez, M. E. Hoque, Xizhi An, Kyung Sup Kwak(Inha University, Korea)

21. Fundamental Bounds on Downlink Throughput of Cellular Networks, Do Trong Hieu, Sang-Won Choi, Young-Seob Choi ,Sae-Young Chung(KAIST, Korea)

22. A Study on the Common Carrier's Strategies for IP Telephony Service Market under Uncertain and Complex Environment: Focusing on Scenario Planning Method, Sang-Chul Han, Young-Min Key(ETRI, Korea)

23. Parametric Study Service for Large-scale Scientific Simulations on the Grid, Byungsang Kim, Soonwook Hwang, Minjoong Jeong, Chayoung Kim, Kumwon Cho(KISTI, Korea)

Coffee Break   16:20 ~ 16:40

Invited Session   16:40 ~ 18:00   Phoenix Ballroom Chair: Hyeong-Ho Lee (ICACT2007 TPC Chair)

1. Future Internet and GENI, Prof. Dae Young KIM (Chungnam National University, Korea)

2. Challenge and Opportunity of NGI and IPv6: Experiences in China, Prof. Jianping WU (Tsinghua University, China)

Opening Ceremony and Banquet   18:30 ~ 20:30   Phoenix Ballroom Welcome Address: Prof. Min-Ho Kang (ICACT2007 General Chair)

Day 2 : February 13 (Tuesday)

Session 5   09:00 ~ 10:20

Session 5A: Wireless Communications (V)   Room Emerald
Chair: Ho In Jeon (Kyung-Won University, Korea)

1. A Compensation Method for Nonlinear Distortion in OFDM System, Jing Yang, Xiaomin Mu, Shouyi Yang, Lin Q(Zhengzhou University, China), Hideo Kobayashi(Mie University, Japan)

2. Adaptive VoIP Service QoS Control based on Perceptual Speech Quality, Liang-Yi Huang, Yung-Mu Chen, Tein-Yaw Chung, Chih-Hung Hsu (Yuan Ze University, Taiwan)

3. The Novel Rapid Long PN Sequence Acquisition Method Based on Correlation Property, Hong Wen, Suling Wang, Liang Zhou, Shumin Luo, Zhongpei Zhang(University Electronic Science and Technology of China, China)

4. Novel E-Shaped Driver based on the Quasi-Yagi Antenna, W. Anantapreecha, N. Duangkha, S. Pattichart, D. Eungdamrong(Thammasat University, Thailand)

5. Comparison of Two Different Upsampling Methods Used for Interpolation in Symbol Timing Recovery in Digital Receivers, Tao Cheng, Liu Liu(Beijing Jiaotong University, P.R.China)

Session 5B: Mobile Communications (V)   Room Ruby I
Chair: Riri Fitri Sari (University of Indonesia, Indonesia)

1. Improved Key Management methodology for enhanced Media Security in IMS Networks, Jithesh Sathyan, Naveen Unni(Infosys Technologies Limited, Bangalore, India)

2. The Design of Mobile Router supporting Heterogeneous Access Networks and IPv4 traversal, Joo-Chul Lee, Hyoung-Jun Kim(ETRI, Korea)

3. A Gaussian Mixture Model for Mobile Location Prediction, Nguyen Thanh An, Tu Minh Phuong(Posts and Telecommunications Institute of Technology, Vietnam)

4. A New Hybrid Packet Scheduling Algorithm with QoS Provision in HSDPA, Eun-Gyo Jung, Jeongchan Kim,Youngnam Han(ICU, Korea)

5. A Trustworthy Neighbor Discovery Algorithm for Pure Directional Transmission and Reception in MANET, Ruiqin Zhao, Aijun Wen, Zengji Liu(Xidian University, China), Jungang Yang(Xi' an Communication Institute, Xidian University, China)

6. Multipath Effects on SDH-based Networks When Using Multi-line Protection Switching, Nahal Maleki, Ramin Khosravi, Mohammad Kazem Shokouhi(Iran Telecommunication Research centre, Iran)

Session 5C: Multimedia and Internet Systems and Services (V)   Room Ruby II
   Chair: Won Cheol Lee (Soongsil University, Korea)

1. Image Error Concealment Using Optimized Local Pixel Matching and Directional Interpolation, Adisorn Sirikham, Wuttipong Kumwilaisak(King Mongkut's University of Technology Thonburi, Thailand)

2. QoS negotiation for IPTV service using SIP, H. J. Park, J. H. Yang, J. K. Choi(ICU, Korea), H. S. Kim(National Information Society Agency, Korea)

3. Design Considerations on Subscription and Notification Function in the Presence Services for Hierarchical ResourceList, MiYoung Huh, Wook Hyun, ShinGak Kang(ETRI, Korea)

4. A network-adaptive SVC Streaming Architecture , Peng Chen, Jeongyeon Lim, Bumshik Lee, Munchurl Kim(ICU, Korea), Sangjin Hahm, Byungsun Kim, Keunsik Lee, Keunsoo Park(KBS, Korea)

5. A Dynamic Congestion Control Mechanism for Real Time Streams over RTP, Shafqaat Ahmad,N .D Gohar,Aatif kamal(National University of Science and Technology, Pakistan)

Session 5D: RFID & USN Technologies (V)   Room Topaz I
   Chair: Bin Chen (Tsinghua University, China)

1. Methods to use 6LoWPAN in IPv4 network, Chang-Yeol Yum(NIA , Korea), YongSung Beun(Yonsei University, Korea), Sunmoo Kang, YoungRo Lee(NIA , Korea), JooSeok Song(Yonsei University, Korea)

2. Mobile Agent based Load Balancing for RFID Middlewares, Jian Feng Cui, Heung Seok Chae(Pusan National University, Korea)

3. Residual Energy Prediction Scheme for Wireless Sensor Devices, Sungro Yoon, Chongkwon Kim(Seoul National University, Korea)

4. Energy Conserving Passive Clustering for Efficient Routing in Wireless Sensor Network, Md. Mamun-or-Rashid, Muhammad Mahbub Alam,   Choong Seon Hong(Kyung Hee University, Korea)

5. Tomlinson-Harashima Precoding with Imperfect Channel Side Information, H. Khaleghi Bizaki(Malek Ashtar University, Iran), Abolfazl Falahati(Iran University of Science & Technology, Iran)

Session 5E: Network Management, Operation and Maintenance(I)   Room Topaz II
Chair: Kyu Ouk Lee (ETRI, Korea)

1. SNMP-based Integrated Wire/wireless Device Management System, Soo-Jin Jung, Jong-Hyouk Lee, Young-Ju Han(Sungkyunkwan University, Korea), Jong-Hyun Kim, Jung-Chan Na(ETRI, Korea), Tai-Myoung Chung(Sungkyunkwan University, Korea)

2. An Approach to Designing Service-Oriented Product-Line Architecture for Business Process Families, Eunsuk Ye, Mikyeong Moon, Youngbong Kim, Keunhyuk Yeom(Pusan National University, Korea)

3. Study of micro-granularity protection on WDM optical networks, Chen-Shie Ho and Wei Chang(VaNung University, Taiwan)

4. Network Configuration for QoS in MIP System, Yun-ji Ban, Wonseok Chae, Chunghwan Lee, Kwang-hyun Shim(ETRI, Korea)

Session 5F: IPv6 Technology(I)   Room Topaz III
Chair: Myung Ki SHIN (ETRI, Korea)

1. IPv6 Operations and Deployment Scenarios over IEEE 802.16 Networks, Myung-Ki Shin, Youn-Hee Han, Hyoung-Jun Kim(ETRI, Korea)

2. Group Key Locking Scheme in Mobile IPv6 Networks, Byung-Jin Han, Soo-Jin Jung, Jong-Hyouk Lee, and Tai-Myoung Chung(Sungkyunkwan University, Korea)

3. Mechanisms of Mobile IP in delivering packets and its trends for changing from IPv4 to IPv6, Nguyen Ngoc Chan, Tran Cong Hung (Posts & Telecommunications Institute of Technology, Viet Nam)

4. A Handover Scheme Supporting IPv4-IPv6 Traversal over Network-based Mobility Management Domains, Sangjin Jeong, Myung-Ki Shin, Hyoug-Jun Kim(ETRI, Korea)

5. A Novel IPv4/IPv6 Translation Mechanism Based on NAT-PT, Wenming SHI(Wuhan University, China), Chuanhe HUANG, Qinggang WANG, Yan CHEN, Yiming HUANG(Ohio University, USA), Yong CHENG(Wuhan University, China)

6. IPv6 anycast routing for the continuity of a service flow, Yoo-Hwa Kang, Tae-Il Kim(ETRI, Korea)

Coffee Break   10:20 ~ 10:40

Session 6   10:40 ~ 12:00

Session 6A: Wireless Communications (VI)   Room Emerald   Chair: Eunsung Jeon (Yonsei University, Korea)

1. Lower Power Consumption and Wider Bandwidth of a LNA for Wireless Communication Technology at 5 GHz Band, L. Lee, R. M. Sidek, S. S. Jamuar, S. Khatun(University Putra Malaysia, Malaysia)

2. Distance-Based Code-Collision Control Scheme Using Erasure Decoding in Orthogonal Code Hopping Multiplexing, Chong Woon Lyu(KTF, Korea), Bang Chul Jungy(KAIST, Korea), Sung Ho Moonz(LG R&D, Korea), Dan Keun Sung(KAIST, Korea)

3. A New MAP-based Algorithm to Reduce the Complexity of Turbo Decoder, Saeed Ghazanfari Rad, V.T. Vakili, A. Falahati(Iran University of Science & Technology, Iran)

4. Lattice Decoding Using Accelerated Sphere Decoder, M. Bayat, V. T. Vakily(Iran)

5. Implementation of Multi-Rate Quasi-Cyclic Low-Density Parity-Check Codes, Liang Chen, Shijun Yan, Ziyu Wu(Shanghai Jiao Tong University, China), Jingyi Xue(Fudan University, China), Yinying Xu, Wenjun Zhang, Yunfeng Guan(Shanghai Jiao Tong University, China)

Session 6B: Mobile Communications (VI)   Room Ruby I   Chair: Yoonseok Ko (NIA, Korea)

1. SCTP-based Handover for VoIP over IEEE802.11 WLAN Using Device Virtualization, Wei-Cheng Wang, Chih-Hung Hsu, Yung-Mu Chen, Tein-Yaw Chung(Yuan Ze University, Taiwan)

2. QoS guaranteed IPTV service over Wireless Broadband network, A.H. Park, J.K. Choi(Information Communications University, Korea)

3. A Handover Mechanism for Reliable Multicast Service over WiBro Networks, Minsik Shim, Hwasung Kim(Kwanwoon University, Korea), Ilkyeun Ra(University of Colorado, USA)

4. Method to Provide Host Mobility and Handover Based on Distributed Proxy, Woo-jin Yang, Tae-il Kim, Hae-won Jung(ETRI, Korea)

5. Energy Efficient Routing Mechanism with MAC Protocol consideration in Ad Hoc Network, K. Sitthi, C. Saivichit(Chulalongkorn University, Thailand)

6. Information Storage and Retrieval Techniques for Mobile Healthcare, G. Anderson, S.D. Asare, A.O. Eyitayo, O.T. Eyitayo, D. Mpoeleng, T.Z. Nkgau, H. Nyongesa, F. Ogwu(University of Botswana, Botswana)

Session 6C: Multimedia and Internet Systems and Services (VI)   Room Ruby II
Chair: Sang Jun Ko (Inha University, Korea)

1. Foveated Wavelet Image Coding With Fuzzy Logic, Phakorn Thamcheewan, Wuttipong Kumwilaisak, Pongsak Lasang(King Mongkut's University of Technology Thonburi, Thailand)

2. Mobile Agent Middleware for Multimedia Services, Muhammad Haider Raza, Muhammad Awais Shibli(NUST Institute of Information Technology, Pakistan)

3. A Study on Keepalive Mechanism between SIP UA and Proxy server for Internet Telephony Service, IlJin Lee, Jae Cheon Han, Wook Hyun, ShinGak Kang(ETRI, Korea)

4. H.264 Transcoding of B to P slices by Reusing Motion Vector and Residual Data , Dongju Roh, Bongsoo Jung, Byeungwoo Jeon(SungKyunKwan University, Korea, Korea)

5. Image Retrieval using Haar Color Descriptor incorporating with Pruning Techniques, Ariya Utenpattanant, Orachat Chitsobhuk(King Mongkut's Institute of Technology Ladkrabang, Thailand)

Session 6D: RFID & USN Technologies (VI)   Room Topaz I
Chair: Ho In Jeon (Kyung-Won University, Korea)

1. Load Balancing Protocol considering effective Path Search in Mobile Ad hoc network , Yang-Min Lee, Bong-Soon Kang, Jae-Kee Lee(Dong-A University, Korea)

2. A key setup mechanism utilizing dual key strings for secure sensor communication, Inshil Doh, Mihui Kim, Kijoon Chae(Ewha Womans University, Korea)

3. BOP (Beacon-Only Period) and Beacon Scheduling for MEU (Mesh-Enabled USN) Devices, Ho-In Jeon(Kyung-Won University, Korea), Yeonsoo KIM(KT, Korea)

4. Development of Simulation System for Validating Contextual Rule in Smart Home, Joonseok Park, Mikyeong Moon, Seongjin Hwang, Keunhyuk Yeom(Pusan National University, Korea)

5. Identification of Individual Radio Transmitters Based on Selected Surrounding-line Integral Bispectra1, Shuhua Xu, Benxiong Huang, Yuchun Huang, Zhengguang Xu(Huazhong University, China)

Session 6E: Network Management, Operation and Maintenance(II)   Room Topaz II

Chair: Chang Bong Kim (Gongju Univ., Korea)

1. The Delay Measurement using The RTCP for Real-time Service in Interworking Environment, Hyun Jong Kim, Jong Chan Kim, Seong Gon Cho(Chungbuk National University, Korea), Tae Soo Jeong, Sung Soo Kang(ETRI, Korea)

2. The investigation and classifying the web traffic delay and solution plans presentation, SeungHwa Chung(ETRI, Korea)

3. Days of Responsibility per Network Failure, Ning Chang(Cisco Systems, USA)

4. Application-level Traffic Identification using SET-based Flow in BcN, Dae-Hee Kang, Nam-Seok Ko, Honk-Shik Park(ETRI, Korea), Jin-Chel Kim(NIA, Korea)

5. An Implicit Cluster-based Overlay Multicast Routing Protocol for Mobile Ad hoc Networks, Younghwan Choi, Euisin Lee, Donghun Lee, Soochang Park, Fucai Yu, Sang-Ha Kim(Chungnam National University, Korea)

Session 6F: IPv6 Technology(II)   Room Topaz III

Chair: Bin Chen (Tsinghua University, China)

1. An Efficient Security Management in IPv6 Network via MCGA, Hayoung Oh(Seoul National University, Korea), Kijoon Chae(Ewha Womans University, Korea)

2. Bandwidth Efficient Mobile IPv6 Extension Method, Nam-Seok Ko, Sung-Back Hong(ETRI, Korea), Hong-Shik(Information and Communications University, Korea)

3. Interoperability between Mobile IPv4 and Mobile IPv6 based on MPLS core network, Tran Cong Hung, Nguyen Ngoc Chan, Nguyen Duc Thang, Truong Dinh Huy(Posts and Telecommunications Institute of Technology, VietNam)

4. IPv6 Address Configuration over 3G Networks, Yong-Geun Hong, Jung-Soo Park, Hyoung-Jun Kim(ETRI, Korea)

5. A Novel IPv6 Networks Measuring Algorithm for Locating Available Bandwidth Bottleneck, LI Xing-feng(Chinese Academy of Sciences, China), WANG Yi-zhi(Beijing Jiaotong University, China), LUO Wan-ming(Chinese Academy of Sciences, China)

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

1. Indexing Scheme for Keyword Search over Semantic Web Documents, YounHee Kim, HyeYeon Shin, KyunRak Chong, and HaeChull Lim(Hong-Ik University, Korea)

2. Analysis of Software Streaming Data, Sungjoo Kang, Kyung I Ku, Sung Jin Hur, Wan Choi(ETRI, Korea)

3. Management System for OWL Documents in Distributed Environment on the Semantic Web, YounHee Kim, YongWook Kim(Hong-Ik University, Korea), ByungGon Kim(Bucheon College, Korea), and HaeChull Lim(Hong-Ik University, Korea)

4. Cooperative Diversity-based Routing for Power Savings in Wireless Ad-hoc Networks in Rayleigh Fading Channel, Nam-Soo Kim(Cheongju University, Korea), Beong-Ku An(Hongik University, Korea) , Do-Hyeon Kim(Cheju National University, Korea)

5. A Development of a Legacy Proxy for the Device not to load P2P Middleware, Sang-Bong Lee, Tae-in Hwang, Ho-Jin Park(ETRI, Korea)

6. Case Study on Design Space Exploration of MPSoC architecture, Sung-Rok Yoon, Sin-Chong Park(Information and Communications University, Korea)

7. Next Generation RF Transmission for ATSC Terrestrial DTV , Sung-Hoon Kim, Jae-Young Lee, Seung-Won Kim, SooIn Lee, Chieteuk Ahn(ETRI, Korea), Ki-Doo Kim(Kookmin University, Korea)

8. Combined MRC Diversity and Adaptive Soft Decision Feedback Differential Detection Technique, Won-Suk Choi, Soon-Chan Kwon, Jong-Soo Seo(Yonsei University, Korea)

9. EPC vs. IPv6 mapping mechanism, Sang-Do Lee, Myung-Ki Shin, Hyoung-Jun Kim(ETRI, Korea)

10. Moving AAAH Architecture for Mobile IPv6, Joong-Hee Lee, Jong-Hyouk Lee, Young-Ju Han, and Tai-Myoung Chung(Sungkyunkwan University, Korea)

11. High-Speed concurrent attack responding system using FPGA supporting IPv4/IPv6, Sang-Kil Park, Jin-Tae Oh, Taek-Yong Nam, Jong-Soo Jang(ETRI, Korea)

12. A Novel Multipath Mitigated Side-peak Cancellation Scheme for BOC(kn; n) in GNSS, Sanghun Kim, Seokho Yoon(Sungkyunkwan University, Korea), Sun Yong Kim(Konkuk University, Korea)

13. The next generation telematics service platform in ubiquitous environments, Jungsook Kim, Jungdane Choi, ByungTae Jang(ETRI, Korea)

14. A Novel Scheme for Positioning Error Mitigation in OFDM-Based onWireless Location Systems, Seung Hwan Yoo, Seungsoo Yoo(Konkuk University, Korea), Seokho Yoon(Sungkyunkwan University, Korea)

15. Link State Update Algorithm considering Traffic Variation, Tae-IL Kim, Jeong-Ju Yoo, Hae-Won Jung, Hyeong-Ho Lee(ETRI, Korea), Min Young Chung(Sungkyunkwan University, Korea), and Seong-IL Jin(ChungNam National University, Korea)

16. Hierarchical Routing in Wireless Mesh Network, PHAM Ngoc Thai, HWANG Won-Joo(Inje University, Korea)

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

17. Resource Allocation Mechanism in Hybrid Passive Optical Networks, Jeong-Ju Yoo(ETRI, Korea), Nam-Uk Kim, Seung-Jin Lee(ICU, Korea), Byoung-Whi Kim(ETRI, Korea), and Min-Ho Kang(ICU, Korea)

18. Methods for Seamless Vertical Handoff between UMTS and WLAN, Daeheung Kwon(University of Science & Technology, Korea) , Aesoon Park(ETRI, Korea)

19. Performance Enhancement of SIP proxy server by using lhash for matching transaction, Hyun Wook, ShinGak Kang(ETRI, Korea), Daeyoung Kim(Chungnam national university, Korea)

20. Mechanism of Audio-Text Mode Assignment on SIP-based Internet Telephony System, Sun Ok Park, Jae Cheon Han, Il Jin Lee, Shin Gak Kang, Lee Hyeong Ho(ETRI, Korea)

21. A Study on SIP-based Instant Message and Presence, Jae Cheon Han, Sun Ok Park, Shin Gak Kang, Hyoung Ho Lee(ETRI, Korea)

22. Alternative Multicast Mechanism with Mobility support for One-to-Many Multicast streaming service, Jong Min Lee, Juyoung Park , Shin-Gak Kang(ETRI, Korea)

23. A Scalable Ad Hoc Routing Protocol based on Logical Topology for Ubiquitous Community Network, Hun Kim, Myungsik Yoo(Soongsil University, Korea)

Lunch   12:00 ~ 13:20

Session 7   13:20 ~ 14:40

Session 7A: Wireless Communications (VII)   Room Emerald
Chair: Eunsung Jeon (Yonsei University, Korea)

1. Evaluation of the voice data streaming system by Ad-hoc network using Bluetooth, Yoichi OHIRA, Akihiko SUGIURA(Toyohashi University of Technology, Japan)

2. Frame Synchronization for OFDM-Based High-Speed Wireless Communication Systems in an Impulsive Channel, Young Sun Lim, Sung-won Kim, Jin Young Kim(Kwangwoon University, Korea)

3. Power Loading by Minimizing the Average Symbol Error Rate on MIMO THP Systems, H. Khaleghi Bizaki(Malek Ashtar University, Iran), Abolfazl Falahati(Iran University of Science & Technology, Iran)

4. Source Localization using MUSIC in a Multipath Environment, Franz A. de Leon, Joel Joseph S. Marciano Jr.(University of the Philippines, Philippines)

5. Dynamic Frequency Selection (DFS) in IEEE802.16e OFDM System Working at Unlicensed Bands, Guojun Dong, Hong Chen, Min Yang, Jufeng Dai(Tianjin University, China)

Session 7B: Information Security Technology (I)   Room Ruby I
Chair: Huo-Chong Ling (Multimedia University, Malaysia)

1. Performance Analysis of Security Appliances-A Performance Model for SOA Preventive Devices, Lei Liu(IEEE Member, USA)

2. The Real-Time User Consent Acquisition System for Secure Use of Personal Information, Hangyu Ko(University of Science and Technology, Korea), Seunghyun Kim, Seunghun Jin(ETRI, Korea)

3. Pseudo Random Binary Protecting On-line Data Communications against Insider Threat, Xu Huang, Allan C. Madoc, Dharmendra Sharma, Nazni Farooq(University of Canberra, Australia)

4. An Efficient Solution Method to Membership Control in MANETs, GENG Yong-Jun, CUI Guo-Hua, HONG Fan(Huazhong University, China)

Session 7C: Next Generation Network Technology (I)   Room Ruby II
    Chair: Sang Jun Ko (Inha University, Korea)

1. Probability based Admission Control for Guaranteeing Latency Constraints of Multiplexed VBR Traffics , Seong-Soon Joo, Yoo-Kyoung Lee, Hae-Won Jung(ETRI, Korea), Young-Cheol Bang(Korea Polytechnic University, Korea)

2. The Techniques for the Ontology-Based Information Retrieval, Myunggwon Hwang, Hyunjang Kong, Sunkyoung Baek, Kwangsu Hwang, Pankoo Kim(Chosun University, Korea)

3. Output Rate-Controlled Scheduling Policy: End-to-End Delay Bounds Calculation, Masaki Hanada, Hidenori Nakazato(Waseda University, Japan)

4. Performance Comparison on Existing Mobility Management Schemes, Myoung Ju Yu, Jong Min Lee, Seong Gon Choi(Chungbuk National University , Korea), Sung Soo Kang, Tae Soo Jeong(ETRI, Korea)

Session 7D: Optical Networking Technology(I)   Room Topaz I
    Chair: Do Won Kim (ICU, Korea)

1. Hybrid Protection Architecture against Multipoint Failure in WDM-PON, Kyeong-Eun Han, Sang-Heon Shim, Byung-Jun Oh, Li-Mei Peng, Young-Chon Kim(Chonbuk National University, Korea)

2. An Improved Cyclic Water-Filling EPON DBA Providing Priority Scheduling and Faster Allocation Time, Chan Kim, Tae-Whan Yoo, Bong-Tae Kim(ETRI, Korea)

3. Just Enough Routing and wavelength Assignment (RWA) scheme for metro-ring architecture , M.G. Khair, T. J. Hall(University of Ottawa, Canada)

4. Ray Trace Analysis in Optical PCB Systems Using Micro-optic Connectors for 90o Deflection of Light Beams, Do-Won Kim, Dong-Min Lim, Mu Hee Cho, Minho Kang, Hyo-Hoon Park(Information & Communications University, Korea)

5. A Novel Fairness Algorithm for Resilient Packet Ring Based on Feedback Theory, Xiaobo Zhou, Liu Liu(Beijing Jiaotong University, China), Lieguang Zeng (Tsinghua University, China)

Session 7E: Network Management, Operation and Maintenance(III)   Room Topaz II
Chair: Younglok Kim (Sogang Unisversity, Korea)

1. Service Oriented Architecture for SLA Management System, Byung-Yun Lee, Gil-Haeng Lee(ETRI, Korea)

2. Probabilistic Sensor Deployment in Wireless Sensor Network: A New Approach, Md. Obaidur Rahman, Md. Abdur Razzaque, Choong Seon Hong(Kyung Hee University, Korea)

3. NanoMon: A Flexible Sensor Network Monitoring Software, Misun Yu(ETRI, Korea), Junkeun Song(ETRI-UST, Korea), JinWon Kim(ETRI, Korea), Kee-Young Shin, Pyeong Soo Mah(ETRI-UST, Korea)

4. Efficient Overlay Multicast Protocol using Unicast Routing Information in Mobile Ad hoc Networks, Hochoong Cho, Kwansoo Jung, Younghwan Choi, Fucai Yu, Min-sook Jin, Sang-Ha Kim(Chungnam National University, Korea)

5. Network Tomography and Improved Methods for Delay Distribution Inference, Yi Sun, Dong Li(Harbin Institute of Technology, China), Hongjie Sun(Computer Information Content Security Key Laboratory, China)

Session 7F: ASP, WAS, P2P, CDN, and XML Technologies   Room Topaz III
Chair: Sun Moo Kang (NIA, Korea)

1. SSIF: Stable Self-Organized Infrastructure-based Peer-to-Peer Network, Tein-Yaw Chung, Yang-Hui Chang, Chia-Yu Liu, Yung-Mu Chen(Yuan Ze University, Taiwan)

2. AVS: An Adaptive P2P Video Streaming Scheme with Frame Type Aware Scheduling, Dohyun Kim, Joongsoo Lee, Younghee Lee(Information and Communications University, Korea), Hagyoung Kim(ETRI, Korea)

3. Dynamic Session Control System for Multi-Devices (DSCSM), Yaling Nie(Hitachi (China) Research & Development Corporation, China)

4. Improved CAN Routing Using Additional Neighbors, Chanmo Park , KukSe Kim, Joon Lee, PanKoo Kim(Chosun Univ, Korea)

5. Locality-Aware Peer-to-Peer Networks, Chun-Hsin Wang, Jyun-Cheng Ciou(Chung Hua University, Taiwan)

Coffee Break   14:40 ~ 15:00

Session 8   15:00 ~ 16:20

Session 8A: Wireless Communications (VIII)   Room Emerald
Chair: Sun Moo Kang (NIA, Korea)

1. Basic consideration of estimated congestion distance system using ZigBee, KOBAYASHI Hideyuki, SUGIURA Akihiko(Toyohashi university of Technology, Japan)

2. Frequency Offset Synchronization and Channel Estimation for MIMO-OFDM Systems, S. SALARI, M. ARDEBILIPOUR, M. AHMADIAN(K.N.Toosi University of Technology, Iran)

3. Performance Analysis of Multi-Rate IEEE 802.11 WLANs with Channel Error, Hyungu Park, Chong-kwon Kim(Seoul National University, Korea)

4. Joint Determination of Power and Decoding Order for Successive Inter- and Intra-Cell Interference Cancellation, Hye Won Chung, Sang-Woon Jeon, Do-Hyung Park, and Sae-Young Chung(Korea Advanced Institute of Science and Technology, Korea)

5. Power Saving Class I Sleep Mode in IEEE802.16e System, Guojun Dong, Chengjun Zheng, Hongxia Zhang, Jufeng Dai(Tianjin University, China)

Session 8B: Information Security Technology (II)   Room Ruby I
Chair: Chang Bong Kim (Gongju Univ., Korea)

1. A Private Key Agreement Scheme Based on Fluctuations of BER in Wireless Communications, Takayasu Kitano, Akito Kitaura, Hisato Iwai and Hideichi Sasaoka(Doshisha University, Japan)

2. Security-Enhanced Callback URL Service   in Mobile Device , Seung-Hyun Kim, Seunghun Jin(ETRI, Korea)

3. Towards Intelligent Cross Protocol Intrusion Detection in the Next Generation Networks based on Protocol Anomaly Detection, Bazara I. A. Barry,H. Anthony Chan(University of Cape Town, South Africa)

4. Developing a Security Protocol based on LCG and Orthogonal Matrices for Wireless Sensor Networks, Md. Abdul Hamid, Muhammad Mahbub Alam, Choong Seon Hong(Kyung Hee University, Korea)

5. A New Multi-secret Sharing Scheme with Multi-policy, GENG Yong-Jun, FAN Xiao-Hong(Pingdingshan   Institute of Technology, China), HONG Fan(Huazhong University of Science & Technology, China)

Session 8C: Next Generation Network Technology (II)	**Room Ruby II**
Chair: Hyoungsick Bahn (NIA, Korea)	

1. A Scheme for Improving Handover Feasibility in Convergence Networks, Myoung Ju Yu, Jong Min Lee, Seong Gon Choi(Chungbuk National University , Korea), Sung Soo Kang, Tae Soo Jeong(ETRI, Korea)

2. Available Bandwidth Estimation with Consideration of Broadband Convergence Networks, Kwangjin Choi(ICU, Korea), Seong Gon Choi(Chungbuk National University, Korea), Jun-kyun Choi(ICU, Korea), Chinchol Kim(NIA, Korea)

3. A Test Methodology for Testing Next Generation Broadband IP Access Services, Yazdan Nasr Harandi, Mojtaba Yaghoubi Waskasi, Mahmoud Pirhadi, Mansour Mirzabaghi, Abbas Iravani Tabrizipoor(Iran Telecom Research Center, Iran)

4. Defense Mechanism using Overlay against DDoS Attacks on Converged Networks, Mihui Kim,   Inshil Doh, Kijoon Chae(Ewha Womans University, Korea)

5. The Tree-Based Ant Colony Algorithm for Multi-Constraints Multicast Routing, Hua Wang, Zhao Shi, Jun Ma, Gang Wang(Shandong University, China)

Session 8D: Optical Networking Technology(II)	**Room Topaz I**
Chair: Do Won Kim (ICU, Korea)	

1. Analysis of AWG based Elementary Switches for Multistage WDM Optical Switches, Chol-Ku Kang, Kyeong-Eun Han, Won-Hyuk Yang, Won-Ho So, Young-Chon Kim (Chonbuk National University, Korea)

2. Evaluation and Compensation for Optically and Electrically Interconnected Signal Latencies, Shirazy Md. Shorab Muslim, Tae-Woo Lee, Hyo-Hoon Park(Information and Communications University, Korea)

3. Partial Multicast Protection in WDM Networks, Chun-Hsin Wang ,Shih-Ming Wang, Chien-Hung Chen(Chung Hua University, Taiwan)

4. A Cost-Efficient WDM-PON Architecture Supporting Dynamic Wavelength and Time Slot Allocation, Hyowon Kim, Junho Hwang and Myungsik Yoo(Soongsil University, Korea)

5. A Novel Heuristic Method Based on Shared-Risk Link Groups (SRLG) Constraints in WDM Optical Networks, Lei Guo(Northeastern University, China)

Session 8E: Digital Home Technology (I)	Room Topaz II
Chair: Hyo Sung Ahn (ETRI, Korea)	

1. Design of a HomePNA 2.0 MAC Controller Circuit, Jong Won Kim, Jae Doo Huh(ETRI, Korea)

2. A Development of Application Service on the Peer-to-Peer based Virtual Home Platform, Il-Woo Lee, Moon-Ok Choi, Sang-Ok Lee, Ho-Jin Park(ETRI, Korea)

3. Implementation of Home Gateway and GUI for Control the Home Appliance, Dal-Hwan Yoon, Dong-Joo Bae, Hyun-Seok Ko(Semyung University, Korea), Hi Seok Kim(Chongju University, Korea)

4. Device Detection and Driver Provisioning Mechanism for Small Devices, Kyuchang Kang, Jeunwoo Lee(ETRI, Korea), Hoon Choi(Chungnam National University, Korea)

5. Design and Implementation of Multi-participant Video Conferencing Module for a Home Server, Young-Woo Choi, Wan-Ki Park, Chang-Sic Choi, Intark Han(ETRI, Korea)

Session 8F: Portable Internet and Internet Telephony	Room Topaz III
Chair: Hiroaki Kikuchi (Graduate Student, Japan)	

1. Intelligent P2P VoIP through Extension of Existing Protocols, Suchaya Sanghan, Md Maruf Hasan(Shinawatra University, Thailand)

2. Seamless Connection for Mobile P2P and Conventional Wireless Network, Sung Chul Kim, Mun Gi Kim, Byung Ho Rhee(Hanyang University, Korea)

3. Scalable VoIP Gateway, Amany S. Amin, Hanem M. El-Sheikh(NTI, Egypt)

4. Evaluation of Stream Control Transmission Protocol as a Transport for VoIP over WLAN, Hye Lim Park, Myungchul Kim(Information and Communications University, Korea), and Jeong-Seon Kim(KT, Korea)

5. Small Office PBX using Voice Over Internet Protocol (VOIP), Saugata Bose, Md. Zaidul Alam, Md. Mhafuzur Rahman, Mohammad Abdullah Al-Mumin(Shah Jalal University, Bangladesh)

Session 8G: Poster Session (IV)   **Room Diamond I**

1. Reduced Complexity Sphere Decoder for MIMO Systems Using Reliability Discrimination Algorithms, Ryun Woo Kim, Dong Jin Lee and Youn Shik Byun(University of Incheon, Korea)

2. A Novel Scheme for Frequency Offset Estimation in OFDM Systems, Sangho Ahn, Changyoon Lee, Sanghun Kim, Seokho Yoon(Sungkyunkwan University, Korea), Sun Yong Kim(Konkuk University, Korea)

3. A design method of closed loop resonator filter to reduce size and adjust pole, Heon Jin Hong(ETRI, Korea), Dong Chul Park(Chungnam National University, Korea)

4. Complexity Reduction Method with Joint Candidate Symbols and Layer Sorting for the Sphere Decoder, Eun Sung Jeon, Yohan Kim, and Dong Ku Kim(Yonsei University, Korea)

5. Enhanced Slow CW Decrease using Idle and Collision Time Ratio, Hee-Don Yoon, Jung-Ho Lee, Hee-Ju Kim, Keun-Young Lee(SungKyunKwan Univ, Korea)

6. A Low Complexity scheduling of Antenna and User in Multiuser MIMO/FDD Uplink System, Sungyoon Cho, Yohan Kim, Dongku Kim(Yonsei University, Korea)

7. Superimposed Training for Estimating of Doubly-Selective OFDM Channels, Qinghai Yang, Kyung Sup Kwak(Inha University, Korea)

8. All PMOS Wideband VCO for Multi− band Multi− standard Radios, Bui Quang Diep, Chul Soon Park(Information and Communications University, Korea)

9. Differential STBC MIMO-OFDM System with Cyclic Delay Diversity for Mobile Multimedia Communication Systems, Yoon Hyun Kim, Jin Young Kim(Kwangwoon University, Korea)

10. Design of a Multiband Antenna using a Planner Inverted-F Structure, Soonyong Lee, Hoon Park, Seokjin Hong, Jaehoon Choi(Hanyang University, Korea)

11. A New Symbol Timing and Frequency Synchronization Design for OFDM-based WLAN Systems, Taekyu Kim, Sin-Chong Park(Information and Communications University, Korea)

12. Resource-aware Rendezvous Algorithm for Cognitive Radio Networks, Pil Jung Jeong, Myungsik Yoo(Soongsil University, Korea)

13. Adaptive Acknowledgment schemes of the IEEE 802.11e EDCA, Youngju Do, Seungbeom Lee, Sin-Chong Park(Information and Communications University, Korea)

14. SNR based Admission Control for HCCA in IEEE 802.11e, Jungho Yoo, Seungbeom Lee, Sin-Chong Park(Information and Communications University, Korea)

15. An Optical Label Access Network based on Hierarchical Wavelength Label and Wavelength Interchange Methods, Jea-Hoon Yu, Byoung-Whi Kim(ETRI, Korea), Nam Kim(Chungbuk National University, Korea)

16. VLSI Architecture of List Sphere Decoder, Hyoung-Soon Kim, Sang-Ho Seo, Sin-Chong Park (Information and Communications University, Korea)

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

17. SMS Transmission Mechanisms for Multi-Protocols on VoIP, Kyu Chul Lee, Jong Hyup Lee(Inje Univ., Korea)

18. Rotating Priority Queue based Scheduling Algorithm for IEEE 802.11n WLAN, Seungbeom Lee, Sin-Chong Park (Information and Communications University, Korea)

19. Hardware Architecture Exploration of IEEE 802.11n Receiver Using SystemC Transaction Level Modeling, Jin Lee and Sin-Chong Park(Information and Communications University, Korea)

20. An Empirical Analysis on the Obstacles for the Growth: What makes Wireless LAN be stagnated in Korea?, Moon-Koo Kim, Jong-Hyun Park(ETRI, Korea)

21. Framework for Autonomous LBS in Wireless Pervasive Computing Environments, LI Fang, LI Xiaolei , BIAN Fuling(Wuhan University, China)

22. A Universal Service Layer Management Model in NGN, YAN Danfeng, YANG Fangchun(Beijing University, China)

23. Capacity Optimization of a 802.16e OFDMA/TDD Cellular System using the Joint Allocation of Sub-channel and Transmit Power, SangJun Ko, KyungHi Chang(Inha University, Korea)

24. Throughput Enhancement of IEEE 802.11 MAThroughput MAC by antenna selection for IEEE 802.11a devices, Jung-Hoon Lee, Seungbeom Lee, Sin-Chong Park(Information and Communications University, Korea)

Coffee Break   16:20 ~ 16:40

Session 9   16:40 ~ 18:00

Session 9A: Wireless Communications (IX)   Room Emerald
Chair: Jong Hyup Lee (Inje Univ., Korea)

1. Preamble Generation using Genetic Algorithm for MIMO Wireless LAN System, Tomohiko OKA, Yusuke SAKAGUCHI, Yuhei NAGAO, Masayuki KUROSAKI, Hiroshi OCHI(Kyushu Institute of Technology, Japan)

2. User Priority Based Adaptive Subcarrier-and-Bit Allocation Algorithm for OFDM System, SunBum Han, JongKyoung Kim, SoonUp Hwang, JongSoo Seo(Yonsei University, Korea)

3. Investigation of the Effect of Fading Correlation on Performance of MIMO Systems Using an RCS Channel Model, N. Ebrahimi-Tofighi, M. ArdebiliPour(K.N.Toosi University of Tech., Iran), M. Shahabadi(University of Tehran, Iran), S.Rajabi(K.N.Toosi University of Tech., Iran)

4. TCP Performance over the WiBro Compatible 802.16e Systems, Jing Wu, Dongho Kim, Jeonghoon Mo(Information and Communications University, Korea)

5. Interference Avoidance Using Fractional Fourier Transform in Transform Domain Communication System , Wang Chuandan, Zhang Zhongpei, Li Shaoqian(UESTC, China)

Session 9B: Information Security Technology (III)   Room Ruby I
Chair: Yoonseok Ko (NIA, Korea)

1. A Scheme of Secret Key Agreement Based on Received Signal Strength Variation by Antenna Switching in Land Mobile Radio, Akito KITAURA, Hisato IWAI, Hideichi SASAOKA(Doshisha University, Japan)

2. A new distinguish attack against ABC stream cipher, Abolfazl Falahati, Nasoor Bagheri, Majid Naderi (Iran University of Science & Technology, Iran), Javad Mohajeri(Sharif University, Tehran, Iran)

3. Authentication Protocol using Fuzzy Eigenface Vault based on MoC, Ae-Young Kim, Sang-Ho Lee(Ewha Womans University, Korea)

4. The Dynamic Buffer Overflow Detection and Prevention Tool for Windows Executables Using Binary Rewriting, Seon-Ho Park, Young-Ju Han(Sungkyunkwan University, Korea), Soon-jwa Hong, Hyoung-Chun Kim(National Security Research Institute, Korea), Tai-Myoung Chung(Sungkyunkwan University, Korea)

5. A Heuristic Approach for Firewall Policy Optimization, El-Sayed M. El-Alfy(King Fahd University of Petroleum and Minerals, Saudi Arabia)

Session 9C: Next Generation Network Technology (III)	Room Ruby II
Chair: Hyoungsick Bahn (NIA, Korea)	

1. A Study of SCR concept in SDP   for the guaranteed QoS, Doo Geon Hwang, Min tae Moon, Peng Xi, Chen Jiehui(Inje University, Korea)

2. A New Scheme for Unified-Authentication in BcN, Jong Min Lee, Myoung Ju Yu, Seong Gon Choi(Chungbuk National University, Korea), Tae Soo Jeong, Seong Su Kang(ETRI, Korea)

3. A Testbed for Next Generation Network Interoperability Basic Call Assessment, Abbas Iravani Tabrizipoor, Mahmoud Pirhadi, Mansour Mirzabaghi, Yazdan Nasr Harandi,Mojtaba Yaghoubi Waskasi(Iran Telecom Research Center, Iran)

4. Transmission of Multimedia Data over Next Generation Wireless Networks, Muhammad Mahbub Alam, Md. Mamun-or-Rashid, Choong Seon Hong(Kyung Hee University, Korea)

5. A Distributed Ant Colony Algorithm Based On Cross-Entropy for Multi-Constraints QoS Rounting, Hua Wang, Gang Wang, Jun Ma, Zhao Shi(Shandong University, China)

6. A Virtual Discovery Network-An Index Data Structure for Adaptive Routing, Lei Liu(IEEE Member, USA)

Session 9D: Optical Networking Technology(III)	Room Topaz I
Chair: Do Won Kim (ICU, Korea)	

1. Design of 2.5Gb/s Transimpedance Amplifier   using CMOS Technologies , Seung-Hoon Kim , Chi-Uk Kam , Jong-Hwa Lee(University of Ulsan, Korea)

2. All-Digital Phase-Locked Loop for Optical Interconnect Applications, Ngo Trong Hieu, Tae-Woo Lee, Hyo-Hoon Park(Information and Communications University, Korea)

3. Multicast Traffic Reconfiguration in WDM Network for Single Node Failure Design, Kunanan Luekijna, Chaiyachet Saivichit(Chulalongkorn University, Thailand)

4. An Improved Multiple-Shift Algorithm for Rapid Code Acquisition in Optical CDMA Systems, Dahae Chong, Young-Bin Joung, Seokho Yoon(Sungkyunkwan University, Korea), Sun Yong Kim(Konkuk University, Korea)

5. Static Routing Considering Network-layer and Physical-layer in Wavelength-Routed Optical Networks, M. Karimiyan-Mohammadabadi, M. H. V. Samiei(Iran University of Science and Technology, Iran)

Session 9E: Digital Home Technology (II)	Room Topaz II

Chair: Younglok Kim (Sogang Unisversity, Korea)

1. A Design and Implementation of the Contents Sharing Service on the Peer-to-Peer based Virtual Home Platform, Moon-Ok Choi, Il-Woo Lee, Sang-Ok Lee, Ho-Jin Park(ETRI, Korea)

2. ZigBee and The UPnP Expansion for Home Network Electrical Appliance Control on the Internet, Kuk-Se Kim, Chanmo Park(Chosun University, Korea), Kyung-Sik Seo(MOMED CO.,LTD, Korea), Il-Yong Chung, Joon Lee(Chosun University, Korea)

3. The Scenario Implementation of Home Networking, Jethro Tu, Wen-Wei Lin, Jung-Chih Wang, Yu-Tse Lin(Industrial Technology Research Institute, Taiwan)

4. Upstream Channel Synchronization for Cable Modem System, Youngje Kim, Hyunju Ha, Junseo Lee, Wangrok Oh, Whanwoo Kim(Chungnam National University, Korea), Eungdon Lee, Yun-Jeong Song(ETRI, Korea)

5. Convergence System for Home Information Control based on the Web and Mobile, Dal-Hwan Yoon, Dong-Joo Bae, Young-Hyun Ko, Jae-Hoon Shin(Semyung University, Korea)

Session 9F: Digital Broadcasting Technology	Room Topaz III

Chair: Yang Hao (Beijing University of Posts & Telecommunications, China)

1. DTTB Channel Estimation Using Separable 2D Filters on Nonrectangular Lattice, Yusuke Sakaguchi(Kyushu Institute of Technology, Japan), Masayuki Kurosaki ,Hiroshi Ochi(Kyushu Institute of Technology, Japan)

2. An Adaptive Error Concealment Scheme for H.264/AVC Transmission over Packet-Loss networks, Bin Chen, Rong Luo(Tsinghua University, China)

3. Advanced Routing Algorithms and Load Balancing on MPLS, Tran Cong Hung, Nguyen Hoang Thanh, Nguyen Duc Thang (Posts & Telecommunications Institute of Technology, Viet Nam), Hae Won Jung, Tae Il Kim, Sung Hei Kim, Woo Jin Yang (Electronics and Telecommunications Research Institute, Korea)

4. Bandwidth-Scalable video Broadcasting for VBR encoded videos with High Performance, Yong Wang , Junzhong Gu , Kai-Zhong Jiang, Zi-Cheng Li(East China Normal University, China)

5. Decision Feedback Differential Detection with Postdetection Diversity Reception for DPSK/OFDM Systems, Jeong Hoon Lee, Jin Yong Choi, Jong Soo Seo(Yonsei University, Korea)

6. d-Cast : A Division Based Broadcasting System for IP Networks, Yusuke Gotoh, Tomoki Yoshihisa and Masanori Kanazawa(Kyoto University Kyoto, Japan)

Day 3 : February 14 (Wednesday)

Session 10   09:00 ~ 10:20

Session 10A: Wireless Communications (X)   Room Emerald
Chair: Min Li Huang (ICU, Korea)

1. Turbo Receiver Design with Carrier-Frequency Offset Estimation for LDPC-Coded MIMO OFDM Systems, S. SALARI, M. ARDEBILIPOUR, M. AHMADIAN(K.N.Toosi University, Iran), J.P. CANCES, , V. MEGHDADI(University of Limoges, France)

2. Adaptive Power Allocation for Limited Feedback Multi-Antenna Transmissions, Amornmet Pittayasatean, Kampol Woradit, Lunchakorn Wuttisittikulkij(Chulalongkorn University, Thailand),Siwaruk Siwamogsatham(National Electronics and Computer Technology Center, Thailand)

3. A Study of Seamless Handover Service and QoS in Heterogeneous Wireless Networks , Moon Kim, Sung-Joon Cho(Hankuk Aviation University, Korea), Su-Yong Kim(Motorola Korea, Inc., Korea)

4. Analytical Model of UWB Interference Imposed on Co-Channel Narrowband Users, Guang Zeng, Peter Voltz, and Frank Cassara(Polytechnic University, USA)

5. Comparison of Coded and Uncoded Vertical and Horizontal Layered Structure for MIMO OFDN System, Khalida Noori, Sami Ahmed Haider(Military College of Signals National University, Pakistan)

Session 10B: Information Security Technology (IV)   Room Ruby I
Chair: Jong Hyup Lee (Inje Univ., Korea)

1. Attacks on a Blind Signature-Based Steganographic Protocol of IEEE-WISP 2001, Huo-Chong Ling, Swee-Huay Heng(Multimedia University, Malaysia), Raphael C.-W. Phan(Swinburne University of Technology, Malaysia)

2. Host Based Intrusion Detection Architecture for Mobile Ad Hoc Networks, Prabhudutta Ray(CDAC, NOIDA, India)

3. Adaptive DWT-SVD Domain Image Watermarking Using Human Visual Model, Qiang Li, Chun Yuan, Yu-Zhuo Zhong(Tsinghua University, China)

4. Dynamic Rule Set Mapping Strategy for the Design of Effective Semantic Cache, M.R.Sumalatha(Department of Information Technology, India), V.Vaidehi(Department of Electronics Engineering, India), A.Kannan(Anna University, India), M.Rajasekar, M Karthigaiselvan(Department of Information Technology, India)

5. A Modified and Practical Threshold Proxy Signature Scheme Based on RSA, GENG Yong-Jun(Huazhong University of Science & Technology, China), TIAN Hui(Pingdingshan Institute of Technology, China),   HONG Fan(Huazhong University of Science & Technology, China)

6. Cache Poisoning Detection Method for Improving Security of Recursive DNS, Yong Wan Ju, Kwan Ho Song, Eung Jae Lee(National Internet Development Agency of Korea, Korea), Yong Tae Shin(Soongsil Univ, Korea)

Session 10C: Next Generation Network Technology (IV)	Room Ruby II
Chair: Chan Kim (ETRI, Korea)	

1. Route Optimization Mechanism for the Mobile VPN users in Foreign Networks, Kyoungmin Kim, Haesun Byun, Meejeong Lee(Ewha Womans University, Korea)

2. Splitting mechanism for IP into Identifier and Locator in NGN, Min-kyo In, Seung-yun Lee(ETRI, Korea), Dae-young Kim(Chungnam national university, Korea)

3. Designing of Data Link Layer for Virtual Bus Architecture, Rosilah Hassan, James Irvine, Ian Glover(University of Strathclyde, United Kingdom)

4. Efficient Data Relaying Mechanism for Overlay Multicast Streaming Services, Jong Min Lee, Juyoung Park , Shin-Gak Kang(ETRI, Korea)

5. PSTN/ISDN/xDSL Evolution to Broadband convergence Network, Kyu Ouk Lee, Jin Ho Hahm, Young Sun Kim(ETRI, Korea)

Session 10D: Communication Network Topology & Planning(I)	Room Topaz I
Chair: Yoonseok Ko (NIA, Korea)	

1. Spectrum of E-mail Network, Yihjia Tsai, Wen-Fa Huang(Tamkang University, Taiwan), Cheng-Chin Lin(Tung Nan Institute of Technology, Taiwan), Ping-Nan Hsiao(Tamkang University, Taiwan)

2. Noise-Canceller based on Generalized Neural Network, Agya Mishra, R.N.Yadav(Maulana Azad National Institute of Technology, India), D.K.Trivedi(RIST, India)

3. Handling Routed Traffic Over Ports Participating in Spanning Tree Protocol, Ravi Kumar Buregoni(Infosys Technologies Limited, India)

4. ECTP for Interactive Multicast Transport: Design and Implementations , Jae-Sung Park, Sang-Tae Kim, Seok J. Koh(Kyungpook National University, Korea), Yong-Jin Kim(Modacom Incorporation, Korea)

5. Transfer Delay of Buffer Insertion Ring with Priority, Xiaobo Zhou, Liu Liu(Beijing Jiaotong University, China), Lieguang Zeng (Tsinghua University, China)

Session 10E: Telematics Technology(I)	Room Topaz II
Chair: Hyo Sung Ahn (ETRI, Korea)	

1. A Non-coherent UWB Direct Chaotic Indoor Positioning System using Fuzzy Logic Algorithm, Sang Yub Lee, Wan Chul Yang(Samsung Electro-Mechanics Co. Ltd., Korea)

2. A Simple Object Tracking System Using ITDOA without Time Synchronization, SangYoung Park, Hyo-Sung Ahn, Wonpil Yu(ETRI, Korea)

3. Post-processing of Fingerprint Localization using Kalman Filter and Map-matching Techniques, Claude Takenga, Tao Peng(Leibniz University of Hannover, Germany), Kyandoghere Kyamakya(Alpen Adria University Klagenfurt, Austria)

4. Performance of Code Synchronization Schemes using Chip Waveform Shaped Code on DS/SS System in Multipath Environments, Seungsoo Yoo ,Sun Yong Kim(Konkuk University, Korea), Seokho Yoon(Sungkyunkwan University, Korea)

5. A Study on Improvement of Vehicle-to-Vehicle Communication and Location System Using Spread Spectrum Technique, Shinichiro Yamasaki, Kiyoshi Mizui (Kanto Gakuin University, Japan)

Session 10F: GRID, Distributed Computing Technologies & Services	Room Topaz III
Chair: Hyoungsick Bahn (NIA, Korea)	

1. Distributed Authentication and Key Agreement Protocol for Ad hoc network, Yijun Mo, Fei Wang, BenXiong Huang, Shuhua Xu(Huazhong University of Science and Technology, China)

2. Resource Matchmaking in Grid − Semantically, Neela Narayanan V, Kailash S(Centre for Development of Advanced Computing, India)

3. Towards Achieving a Highly Available Distributed File System, Salim Abdalla, Ismail Ahmad,(Multimedia University, Malaysia), Gim Aik Teh, Yong Lee Kee(Intel Technology Sdn Bhd, Malaysia)

4. WSRF-based Global/Local Resource Mapping Architecture, Hidehiro Kanemitsu, Yoshiyori Urano(Waseda University, Japan)

5. Credit Scoring using Least Squares Support Vector Machine based on data of Thai Financial Institutions, Usanee Worrachartdatchai, Pitikhate Sooraksa(King Mongkut’s Institute of Technology Ladkrabang, Thailand)

6. A design of an Learner`s cognitive structure LCMS based on RSM in e-learning, Jae-Wan Cho, Eun-Kyung Kim(Korea University of Technology and Education, Korea)

Coffee Break   10:20 ~ 10:40

Session 11	10:40 ~ 12:00

Session 11A: Wireless Communications (XI)	Room Emerald
Chair: Min Li Huang (ICU, Korea)	

1. Probability of Error for MB-OFDM System in the Presence of Multi-Path Fading and Multi-User Interference, Guang Zeng, F. A. Cassara, P. Voltz(Polytechnic Univ., USA)

2. An Adaptive Energy Efficient System within IEEE 802.11 Standard, M. L. Huang, S. Lee, S.-C Park(Information and Communications University, Korea)

3. Cross-Layer QoS Framework in the IEEE 802.16 Network, Yi-Ting Mai, Chun-Chuan Yang, Yu-Hsuan Lin(National Chi Nan University, Taiwan)

4. Optimal Beamforming for Multicasting Data in CMHP, Hyung-Tae Kim, Sung-Hoon Lim, Sae-Young Chung(KAIST, Korea)

5. A Study of Implementation of IEEE 802.11a Physical Layer on a Heterogeneous Reconfigurable Platform, Afshin Niktash, Hooman Parizi, Nader Bagherzadeh(University of California, USA)

Session 11B: Information Security Technology (V)	Room Ruby I
Chair: Seong Soon Joo (ETRI, Korea)	

1. Building Lightweight Intrusion Detection Based on Principal Component Analysis and C4.5 Algorithm, You Chen, Lei Dai, Yang Li, Xue-Qi Cheng(Chinese Academy of Sciences, China)

2. An "Attacker Centric" Cyber Attack Behavior Analysis Technique, Peng Xuena, Zhao Hong(Northeastern University, China)

3. Securing Programs via Modeling and Efficient Enforcement of Access Control Policies, Saeed Parsa, Morteza Damanafshan(Iran University of Science and Technology, Iran)

4. A Survey of the SEcure Neighbor Discovery (SEND) and Multi-Key Cryptographically Generated Addresses (MCGAs), Jin Ho Park, Kyung Ho Choi, Jung Sik Kim, Che Ik Cho, Hyun Jun Jang, Eul Gyu Im(Hanyang University, Korea)

5. Research and Design of Multi-user Chaotic Secure Communication System Based on DSP Chip, Zhongyong Wang , Xinhua   Lu(Zhengzhou University , China)

Session 11C: Next Generation Network Technology (V)   Room Ruby II
  Chair: Chan Kim (ETRI, Korea)

1. Hybrid TCP for High Speed Data Transfer, Yoonjoo Kwon, Woojin Seo, Giljae Lee and Jaeseung Kwak(Korea Institute of Science and Technology Information, Korea)

2. Design and Implementation of Relayed Multicast Control Protocol for 1-to-n Multicast Service, Juyoung Park , Jong Min Lee, Shin-Gak Kang(ETRI, Korea)

3. Deployment of WiMAX for Telecommunication and Internet Access in Dwesa- Cwebe Rural Areas, Martin .T. Mandioma, G.S.V. Radha Krishna Rao, Alfredo Terzoli, Hippolyte Muyingi(University of Fort Hare, South Africa)

4. Design and Implementation of Overlay Multicast Protocol for many-to-many Multicast services, Juyoung Park, Jong Min Lee, Shin-Gak Kang(ETRI, Korea)

5. An Energy-Efficient Dynamic Key Management in Wireless Sensor Networks, Jong-Myoung Kim, Joon-Sic Cho, Sung-Min Jung, and Tai-Myoung Chung(Sungkyunkwan University, Korea)

Session 11D: Communication Network Topology & Planning(II)   Room Topaz I
  Chair: Kyu Ouk Lee (ETRI, Korea)

1. Node Degree Sequence Preserving and Controlling S-metric, Yihjia Tsai(Tamkang University, Taiwan), Cheng-Chin Lin(Tungnan Institute of Technology, Taiwan), Wen-Fa Huang, Ping-Nan Hsiao(Tamkang University, Taiwan)

2. An Automated Mechanism of IP Topology Discovery in BcN , InSang Choi(University of Science and Technology, Korea), HyunSoon Nam, YouHyeon Jeong(ETRI, Korea)

3. Simulation of IP Network Nodes and Calculations on Specific Issues, Nanjun Li, Werner Zorn(University of Potsdam, Germany)

4. A Growing Network Model with High Hub Connectivity and Tunable Clustering Coefficient, Ping-Nan Hsiao, Yihjia Tsai, Wen-Fa Huang(Tamkang University, Taiwan), Cheng-Chin Lin(Tung Nan Institute of Technology, Taiwan)

5. Performance of SCTP for IPTV Applications , Sang Tae Kim, Seok Joo Koh(Kyungpook National University, Korea), Yong Jin Kim(Modacom Incorporation, Korea)

Session 11E: Telematics Technology(II)   Room Topaz II
Chair: Hyo Sung Ahn (ETRI, Korea)

1. Transfer characteristics of underground power line as a communication channel with loads, Won-ho Choi, Chong-yeon Park(Kangwon National University, Korea)

2. Service Bundle Providing System in Open Telematics Environment, Chul-Su Kim, Jong-Ik Kim, Dae-Sub Yoon, Myung-Jin Lee, Hyunsuk Kim(ETRI, Korea)

3. A study on an Inter-Vehicle Communication Experiments using Wireless LAN , Norihito OYAMADA , Kiyoshi MIZUI   (Kanto Gakuin University , Japan)

4. Consumer's Privacy Concerns and Willingness to Provide Personal Information in Location-Based Services, Sae Sol Choi, Mun-Kee Choi(Information and Communications University, Korea)

5. A Novel Time Delay Estimation Bias Reduction Scheme using Maximum Slope Change in GNSS, Euihyoung Lee, Chulho Lee, Seungsoo Yoo, Sun Yong Kim(Konkuk University, Korea), Seokho Yoon(Sungkyunkwan University, Korea)

Session 11F: CDMA Communications   Room Topaz III
Chair: Sun Moo Kang (NIA, Korea)

1. MMSEC-PIC for MC-CDMA downlink in multicell environments, Nguyen Ngoc Tien(ETRI, Korea, Ministry of Posts and Telematics Vietnam), Seong Rag Kim, Junyoung Nam(ETRI, Korea), and Nguyen Viet Kinh(Hanoi National University, Vietnam)

2. Maximum Likelihood-Based Space-Time Transmit Diversity Receiver Scheme for WCDMA, Majid R. Ardestani, Abolfazl Falahati(Iran University of Science & Technology, Iran)

3. MIMO Adaptive Beamforming for MC-CDMA System, Voravat Limpakuntorn, Raungrong Suleesathira(King Mongkut's University of Technology Thonburi, Thailand)

4. Blind Detection in CDMA Systems Using Nonparametric Likelihood Ratio Criterion, Abolfazl Falahati, Saeed Ghazanfari Rad(Iran University of Science & Technology, Iran)

5. Wireless Media Streaming System over CDMA Networks, Li Zhuo(The University of Sydney, Australia), Jin Wang(Beijing University of Technology, China), David Dagan Feng(The University of Sydney, Australia), Lansun Shen(Beijing University of Technology, China)

REGISTRATION

- **Pre-registration period is from Nov. 23, 2006 to Jan. 15, 2007.**

  (But the pre-registration of general participants, who are not main authors or speakers of ICACT2007, is allowed by Jan. 31, 2006.)

  - 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. 23, 2006 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	On Site Registration
General		US $500 / ₩500,000	US $600 / ₩600,000
Student		US $400 / ₩400,000	US $500 / ₩500,000
Proceeding	Each volume	US $50 / ₩50,000	
	Full set	US $100 / ₩100,000	
Notarized invitation letter		US $50 / ₩50,000	

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: 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)
  - **Youth Hostel**: 90,000 Korea Won/ about 90 USD
    (Standard number of person: 8, normal room rate: 160,000 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. 11-14. 2007**
    (To native participants, reduced room rates are applicable **for Feb. 11-13. 2007**)

  - **In order to make reservations, please download at** http://icact.org/download/hotel2007.doc **and fill the document of the file (hotel2007.doc).**

  - Then e-mail the document to the address below.
     E-mail: member@pp.co.kr
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PHOENIX PARK (http://phoenixpark.co.kr/english/default.html)
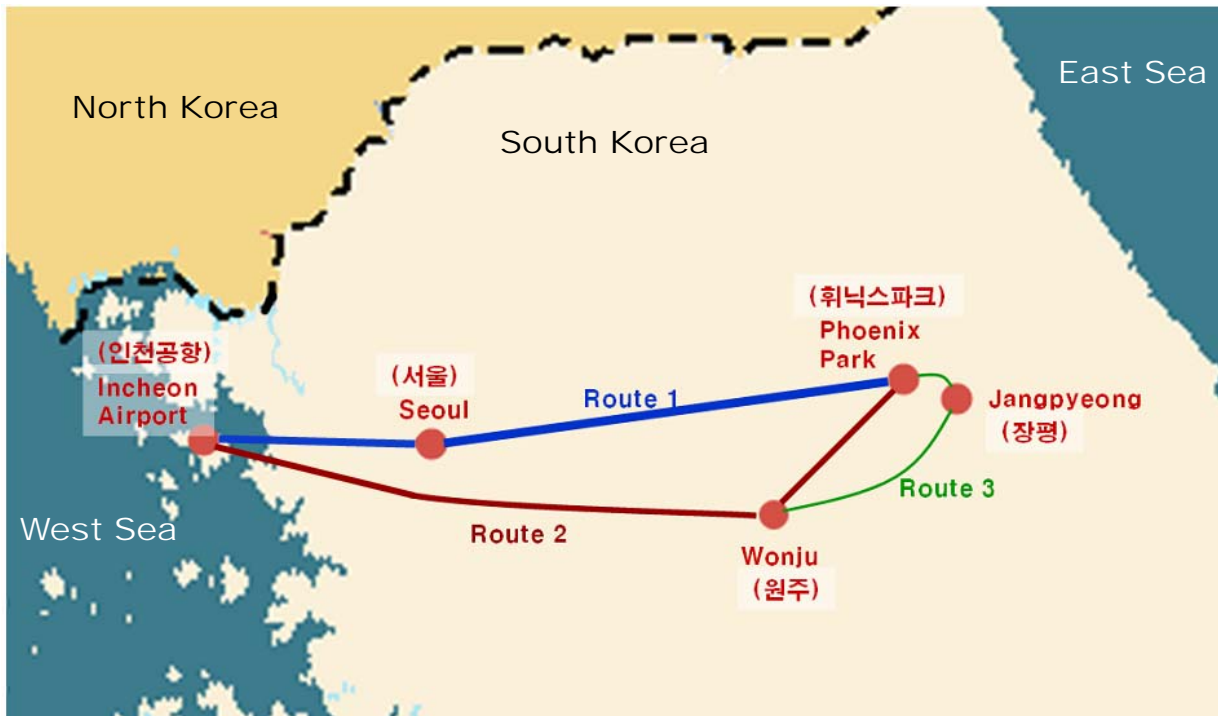
Phoenix Park, spread out on 16.5 million square meters, is a luxurious, world-class resort set in the picturesque mountains of Gangwon province.

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.
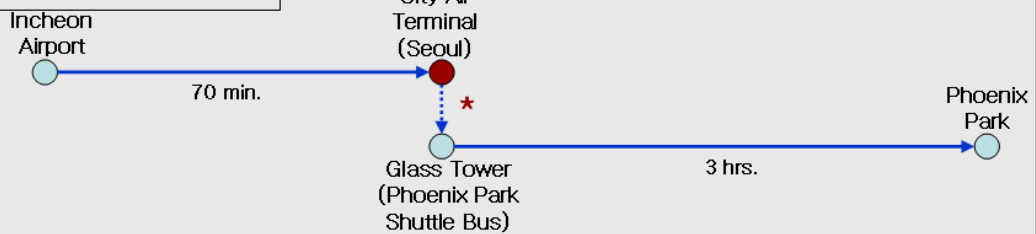
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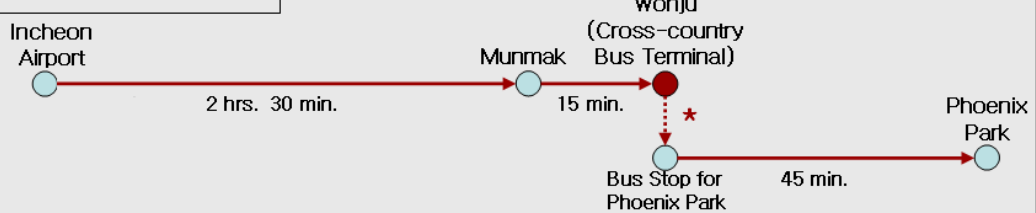

Hotel

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.
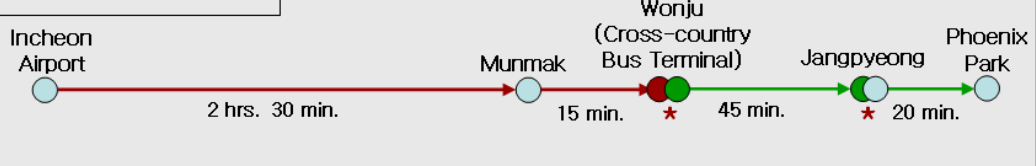
Route 1 : 4hrs 10mins

Incheon Airport → City Air Terminal (Seoul) — 70 min. ★
Glass Tower (Phoenix Park Shuttle Bus) → Phoenix Park — 3 hrs.

Route 2 : 3hrs 30mins

Incheon Airport → Munmak — 2 hrs. 30 min.
Munmak → Wonju (Cross-country Bus Terminal) — 15 min. ★
Bus Stop for Phoenix Park → Phoenix Park — 45 min.

Route 3 : 3hrs 50mins

Incheon Airport → Munmak — 2 hrs. 30 min.
Munmak → Wonju (Cross-country Bus Terminal) — 15 min. ★
Wonju → Jangpyeong — 45 min. ★
Jangpyeong → Phoenix Park — 20 min.
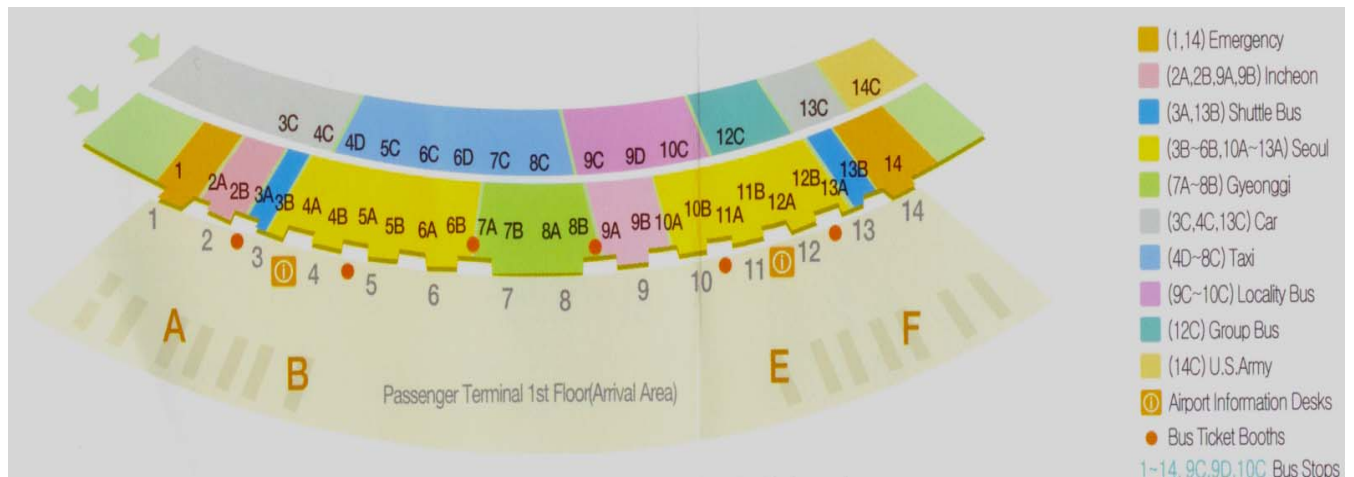
★ You should transfer the bus where star mark(★) is indicated, and the total time for each route does not include the time caused by transfer because it may be different case by case.

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

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 :** 60 ~ 80 minutes **Departure Time Interval :** Every 10 ~ 15 min **One-way Fare :** 13,000 won (Round-trip fare : 23,000won)
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 :** 40 ~ 60 minutes **Departure Time interval :** Every　10 ~ 20 min. **One-way Fare :** 6,000won
07:30	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 Termianl 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 Termianl** 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)	**(MON ~ THU)** 08:00, 10:00, 13:00, 16:00, 20:00 **(FRI)** 08:00, 10:00, 13:00, 16:00, 20:00, 22:00 **(SAT)** 06:00, 08:00, 10:00, 13:00, 16:00, 20:00, 22:00 **(SUN)** 06:00, 08:00, 10:00, 13:00, 16:00, 20:00	**One-way Fare :** Adult : 13,000 won Children : 9,000 won **Round-trip Fare :** Adult : 24,000 won Children : 16,000 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)	**(MON ~ FRI)** 09:30, 13:00, 15:00, 17:00, 19:00, 21:30 **(SAT · SUN)** 05:30, 09:30, 13:00, 15:00, 17:00, 19:00, 21:30	Travel Time: 3 hours

When you go back to Seoul, the exact arrival bus stop is in front of KEPCO(Korean Electric Power COrporation) building.

It takes about 15 minutes on foot from KEPCO to KCAT(Korean City Air Terminal) through the EXIT 7 of Samsung Subway Station.

Route 2

Incheon Airport ↔ (Munmak) ↔ **Wonju** (Cross-Country Bus Termial)

← (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

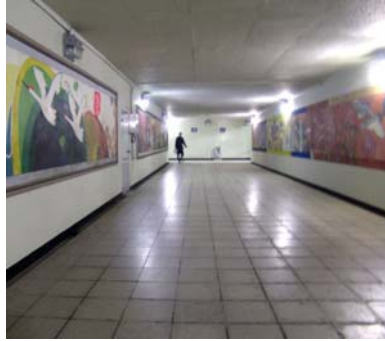| Incheon Airport ↔ (via Munmak) ↔ Wonju (Cross-Country Bus Terminal)						
Incheon → Wonju			Wonju → Incheon			Remark
Incheon	Munmak	**Wonju**	**Wonju**	Munmak	**Incheon**	
09:10	11:35	**11:50**	**06:00**	06:15	**08:40**	**Departure Bus Stop : 9C**
10:10	12:35	**12:50**	**07:00**	07:15	**09:40**	**Travel Time : 2h 40m**
11:10	13:35	**13:50**	**08:00**	08:15	**10:40**	
12:10	14:35	**14:50**	**09:00**	09:15	**11:40**	(It may take more time by
13:10	15:35	**15:50**	**10:00**	10:15	**12:40**	traffic jam according to the
14:10	16:35	**16:50**	**11:00**	11:15	**13:40**	bad weather conditions etc.)
16:10	18:35	**18:50**	**13:00**	13:15	**15:40**	
17:10	19:35	**19:50**	**14:00**	14:15	**16:40**	**Departure Time Interval :**
18:10	20:35	**20:50**	**15:00**	15:15	**17:40**	**Every 1 hour**
19:10	21:35	**21:50**	**16:00**	16:15	**18:40**	**One-way fare : 12,700won**
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 Termianl and Bus Stop for Phoenix Park around underpass
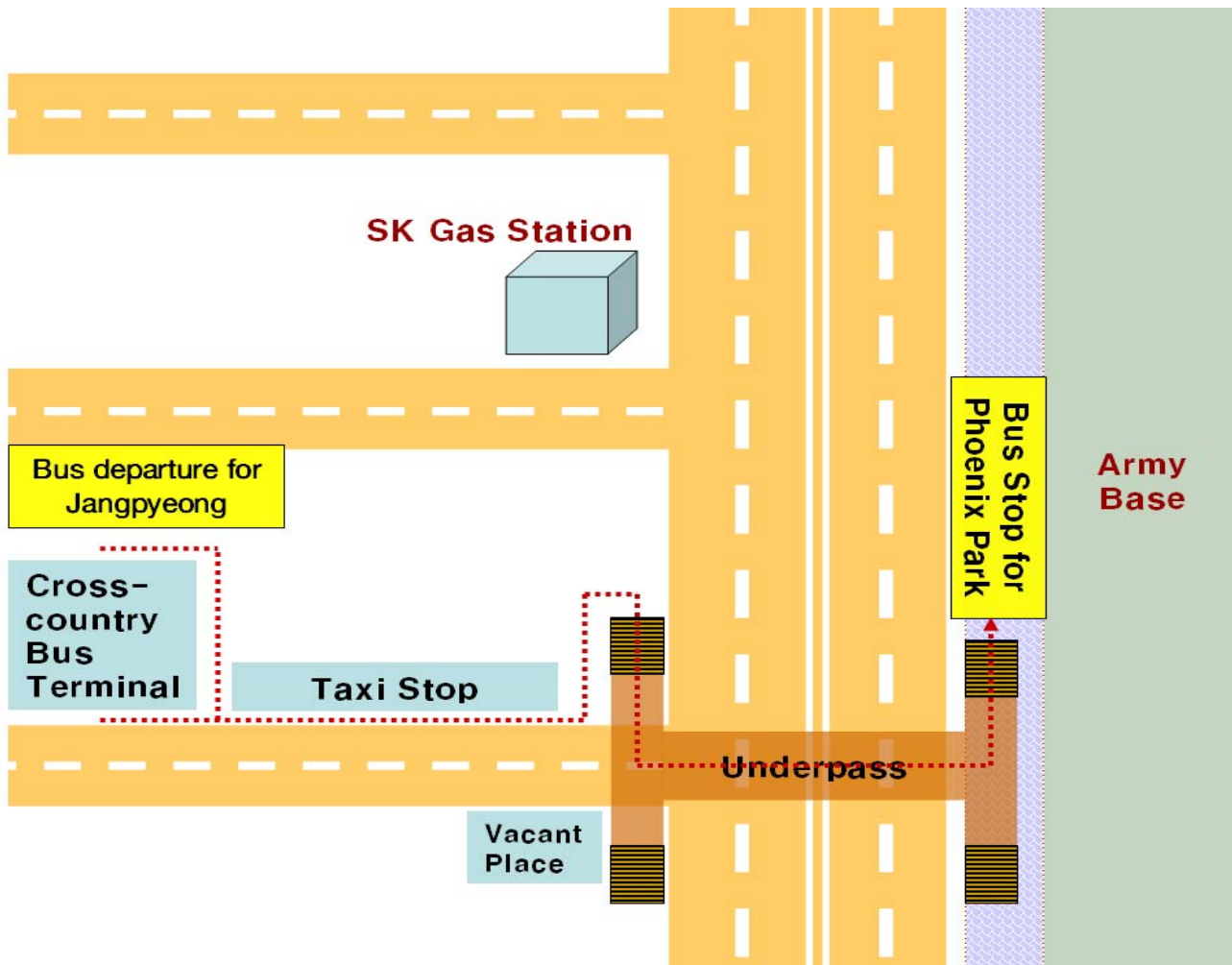
● Underpass Entrance from Bus Terminal ● Underground Crosswalk ● Bus Stop for Phoenix Park

(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		
Wonju → Phoenix Park	**Phoenix Park → Wonju**	**Remark**
08:16	(05:30 **: SAT·SUN**)	**Travel Time : 45 minutes** **Free Shuttle : no charge**
11:16	09:30	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.
14:16	13:30	
16;16	16:30	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.
18:16	17:30	This bus stop is shared by many kinds of buses, and it is not dedicated to the free shuttle bus for Phoenix Park.
19:16	20:30	In order to get on the bus exactly, it might be useful to show the following Korean Sentence.
(20:56 **: FRI·SAT)**	22:30	휘닉스파크(Phoenix Park)로 가는 무료셔틀버스를 태워주세요**.** (Please help me to take the free shuttle bus for Phoenix Park.)

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 07:50 08:00 08:30 09:15 09:50 10:05 11:00 11:15 11:35 11:50 12:10 12:25 13:20 13:40 14:25 15:05 15:25 15:35 16:30 16:50 17:20 17:35 18:00 18:20 18:30 18:55 19:05 19:40	07:40 08:50 09:40 10:50 11:10 12:20 13:20 14:35 14:50 15:45 16:00 16:20 17:00 17:30 17:55 18:30 18:45 19:45 20:30	**Travel Time : 45 minutes** **One-way fare : 3,600 won** 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.)

● 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**				
Jangpyeong → Phoenix Park		**Phoenix Park → Jangpyeong**		**Remark**
09:00	16:00	08:30	15:30	**Travel Time : 20 minutes**
10:00	17:00	09:30	16:30	**Free Shuttle : no charge**
11:00	18:00	10:30	17:30	
12:00	19:00	11:30	18:30	
13:00	20:00	12:30	19:30	
14:00	21:00	13:30	20:30	
15:00		14:30	22:30	

● 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.iia?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 Forcasting Authority..

http://web.kma.go.kr/eng/wis/wf_01.jsp?code1=11D20501

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