

THE 11th INTERNATIONAL CONFERENCE on ADVANCED COMMUNICATION TECHNOLOGY

Ubiquitous ICT Convergence Makes Life Better!



Phoenix Park, Korea
Feb. 15-18, 2009

**FINAL
PROGRAM**

Organizers



Sponsors





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MESSAGE

Message from the ICACT2009 General Chair

On behalf of the ICACT2009, I extend my sincere appreciation and warm welcome to the professionals from all over the world presented at this grand meeting, International Conference on Advanced Communication Technology 2009 (ICACT2009).

The ICACT2009 is a series of international academic events in the communications field where all the experts from home and abroad gather to share new ideas and visions for preparing the future telecommunication age. This year, it will provide the present and future of the ubiquitous ICT convergence with the conference theme "Ubiquitous ICT convergence makes life better!" It will also give the basic characteristics, applications, issues and standardization of the ubiquitous networks and services.



The Ubiquitous ICT convergence will make it possible to connect anything and anyone, anytime and anywhere. By connecting everyone and everything through the ubiquitous ICT convergence, new innovations are expected and will completely change the current dimensions of IT technology.

I would like to express my sincere appreciation for the committee members' and the referees' contributions to help us prepare the event. Also, I must thank all the authors for the papers on their precious technical achievements. I have no doubt of successful ICACT2009, and I hope you will enjoy both the technical excellence during the sessions and the recreational content at the beautiful landscapes of Phoenix Park.

Lastly, I hope that your stay in Korea will be a pleasant and memorable one.

Dr. Mun-Kee Choi
General Chairman
ICACT2009



MESSAGE

Message from the Organizing and Technical Program Committee Chairs

We would like to welcome to ICACT2009! It is a great pleasure to host this 11th ICACT conference in Korea which is one of the countries recently drawing much attention in the world arena of the most advanced ICT convergence infrastructure. On February 29, 2008, the Korea Communications Commission (KCC) as the government agency responsible for broadcasting and communications policies and regulations has been newly established after consolidating the former Ministry of Information and Communication (MIC) and the Korean Broadcasting Commission (KBC). Therefore, KCC will promote the various ICT convergence matters more efficiently than before.



Korea has richly benefited from deploying the high-speed Internet and Cellular networks providing various IT services all over the country. Approximately 98.4%, i.e. 15.5 millions, of Korean households use the high-speed Internet services, and 93%, i.e. 45.5 millions, of Korean people also use the cellular mobile phones now. Korean Wireless Broadband (WiBro) and Digital Multimedia Broadcasting (DMB) technologies have been adopted as the recommendations in the International Telecommunications Union (ITU). ITU has announced yearly that Korea topped the list of countries in the Digital Opportunity Index (DOI) for several consecutive years since 2005.

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. Under the theme of "Ubiquitous ICT convergence makes life better!", ICACT 2009 consists of a plenary session with two keynote speeches by remarkable world experts, a tutorial session with 2 interesting subjects, and 71 technical sessions including 5 poster sessions. The TPC carefully selected a limited number of 466 papers from 27 countries to be presented in the technical sessions. We hope these technical sessions will help you obtain better insights into the latest trends and directions for the competitive communications and Internet markets. We believe that ICACT2009 will provide an abundance of intelligent debate and information exchange, and a look at what is new in the field and technology.

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

ICACT2009

Dr. Thomas Byeong-Nam Yoon, Organization Committee Chair

Dr. Hyeong-Ho Lee, Technical Program Committee Chair



OBJECTIVES

ICACT (International Conference on Advanced Communication Technology) provides 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, services, and variety of applications on the area of telecommunications.



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SESSION OVERVIEW

Day 1 : February 15 (Sunday)		
15:00 ~ 18:00	Registration (2 nd Floor, Phoenix Park Hotel)	
Room	Emerald	Ruby
16:00 ~ 18:00	Tutorial A Issues and R&D Direction of Future Internet : The "Future Internet" and the future of "the Internet"	Tutorial B GMPLS networks and optical network testbeds

Day 2 : February 16 (Monday)							
08:30 ~ 18:00	Registration (2 nd Floor, Phoenix Park Hotel)						
Room	Emerald	Ruby I	Ruby II	Topaz I	Topaz II	Topaz III	Diamond I
09:00 ~ 10:20	Session 1A Wireless Communication Technology (I)	Session 1B Mobile Communications (I)	Session 1C Next Generation Network Technology (I)	Session 1D RFID & USN Technologies (I)	Session 1E Systems & Software Engineering (I)	Session 1F Network Management, Operation and Maintenance (I)	
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	Session 2A Wireless Communication Technology (II)	Session 2B Mobile Communications (II)	Session 2C Next Generation Network Technology (II)	Session 2D RFID & USN Technologies (II)	Session 2E Systems & Software Engineering (II)	Session 2F Network Management, Operation and Maintenance (II)	Session 2G Poster Session (I)
12:00 ~ 13:20	Lunch						
13:20 ~ 14:40	Session 3A Wireless Communication Technology (III)	Session 3B Mobile Communications (III)	Session 3C Next Generation Network Technology (III)	Session 3D RFID & USN Technologies (III)	Session 3E Systems & Software Engineering (III)	Session 3F Communication Network Topology and Planning (I)	
14:40 ~ 15:00	Coffee Break						
15:00 ~ 16:20	Session 4A Wireless Communication Technology (IV)	Session 4B Mobile Communications (IV)	Session 4C Next Generation Network Technology (IV)	Session 4D RFID & USN Technologies (IV)	Session 4E Telematics Technology	Session 4F Communication Network Topology and Planning (II)	Session 4G Poster Session (II)
16:20 ~ 16:40	Coffee Break						
16:40 ~ 18:00	Plenary Session (Phoenix Ballroom)						
18:30 ~ 20:30	Opening & Banquet (Phoenix Ballroom)						



SESSION OVERVIEW

Day 3 : February 17 (Tuesday)							
08:30 ~ 18:00	Registration (2 nd Floor, Phoenix Park Hotel)						
Room	Emerald	Ruby I	Ruby II	Topaz I	Topaz II	Topaz III	Diamond I
09:00 ~ 10:20	Session 5A Wireless Communication Technology (V)	Session 5B Mobile Communications (V)	Session 5C Mobile Internet (I)	Session 5D RFID & USN Technologies (V)	Session 5E Multimedia and Internet Systems and Services (I)	Session 5F Information Security Technology (I)	
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	Session 6A Wireless Communication Technology (VI)	Session 6B Mobile Communications (VI)	Session 6C Mobile Internet (II)	Session 6D RFID & USN Technologies (VI)	Session 6E Multimedia and Internet Systems and Services (II)	Session 6F Information Security Technology (II)	Session 6G Poster Session (III)
12:00 ~ 13:20	Lunch						
13:20 ~ 14:40	Session 7A Wireless Communication Technology (VII)	Session 7B Mobile Communications (VII)	Session 7C Mobile Internet (III)	Session 7D Optical Networking Technology(I)	Session 7E Multimedia and Internet Systems and Services (III)	Session 7F Information Security Technology (III)	
14:40 ~ 15:00	Coffee Break						
15:00 ~ 16:20	Session 8A Wireless Communication Technology (VIII)	Session 8B Mobile Communications (VIII)	Session 8C Mobile Internet (IV)	Session 8D Optical Networking Technology(II)	Session 8E Multimedia and Internet Systems and Services (IV)	Session 8F Information Security Technology (IV)	Session 8G Poster Session (IV)
16:20 ~ 16:40	Coffee Break						
16:40 ~ 18:00	Session 9A Wireless Communication Technology (IX)	Session 9B Digital Home Technology	Session 9C Mobile Internet (V)	Session 9D Optical Networking Technology(III)	Session 9E Multimedia and Internet Systems and Services (V)	Session 9F Information Security Technology (V)	



SESSION OVERVIEW

Day 4 : February 18 (Wednesday)							
08:30 ~ 12:00	Registration (2 nd Floor, Phoenix Park Hotel)						
Room	Emerald	Ruby I	Ruby II	Topaz I	Topaz II	Topaz III	Diamond I
09:00 ~ 10:20	Session 10A Wireless Communication Technology (X)	Session 10B IT Service Technology (I)	Session 10C E-Commerce and M-Commerce (I)	Session 10D Digital Broadcasting Technology (I)	Session 10E Multimedia and Internet Systems and Services (VI)	Session 10F Distributed Computing Technologies (I)	
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	Session 11A Wireless Communication Technology (XI)	Session 11B IT Service Technology (II)	Session 11C E-Commerce and M-Commerce (II)	Session 11D Digital Broadcasting Technology (II)	Session 11E Web Technology	Session 11F Distributed Computing Technologies (II)	Session 11G Poster Session(V)

Tutorial Session 16:00 ~ 18:00 Feb. 15 (Sun.)

Tutorial A : Issues and R&D Direction of Future Internet : The “Future Internet” and the future of “the Internet”

Room Emerald

**Speaker : Dr. Hiroshi ESAKI
(Professor of University of Tokyo, Japan)**

The professional Internet system has operated more than 20 years, while preserving the continuous introduction of technical innovations. There are many discussions on “future internet” or “post internet architecture”. In this talk, the speaker tries to identify the issues and R&D direction of future internet. The internet architecture is different from the particular protocol suites, such as existing TCP/IP. TCP/IP itself has experienced a lot of protocol modifications and functional enhancements, during the deployment of global Internet system. We must recognize that the internet architecture is the “logical” architectural framework, not the particular protocol sets nor routers and switches. The internet architecture, of course including the future internet must preserve the following five essential feature of the internet architecture. These are (1) autonomous, (2) distributed, (3) disconnected, (4) inter-domain, and (5) global. The Internet system has been challenged by the following three aspects; global, ubiquitous and mobility. ISOC, Internet Society (www.isoc.org), has initiated the strategic initiative that is focusing on the “Trust and Identifier”. In this talk, the speaker tries to role out the particular research direction around the “Trust and Identifier”, with his understanding. We must re-design identifier, directory service, trust model, routing and communication model for the computer system and computer network. For example, DTN(Delay Tolerant Networking) or Peer-to-Peer system architecture would challenge the introduction of new technological framework to the Internet. Finally, the speaker discusses how to build and to deploy the future internet infrastructure, and the importance of testbed.



Tutorial B : GMPLS networks and optical network testbeds

Room Ruby

**Speaker : Prof. Malathi Veeraraghavan
(University of Virginia, USA)**

This tutorial combines a top-down approach, starting with applications for circuit/virtualcircuit (GMPLS) networks, with a bottom-up understanding of the GMPLS data-plane and control-plane protocols. Since the early nineties, significant investment has been made in developing protocols for high-speed circuit-switched and virtual-circuit networks. The goal of the tutorial is to offer attendees an opportunity to not only learn the basic technological aspects, but also to understand opportunities for how we can enable a successful wide-scale deployment of GMPLS networks. Finally, the tutorial describes actual deployments of GMPLS networks, most of which are research testbeds for Grid computing and eScience projects. The presenter has personal experience in deploying such a research testbed, which is a wide-area network called CHEETAH.





PLENARY SESSION

Plenary Session 16:40 ~ 18:00 Feb. 16 (Mon.)

Phoenix Ballroom

Chair : Dr. Hyeong-Ho Lee (ICACT2009 TPC Chair)

Keynote Speech 1: Contribution of ICT for Environment on the "Earth"

Speaker : Dr. Hiroshi ESAKI
(Professor of University of Tokyo, Japan)

Energy saving and the protection of environment for sustainable society is now global agenda, that we must achieve for the next generation and for our Earth. This activity around IT and ICT industry is called as "Green IT/ICT". Though the most of the Green IT/ICT would focus on the energy saving "of" IT/ICT equipments, we are focusing on the energy saving "by" IT/ICT technologies. The real target is not the energy saving, but is to establish ubiquitous digital sensor and actuator network environment and to encourage the technical innovation/revolution or new applications using this network platform. This is the "end-to-end" model that the Internet has achieved. In this presentation, the speaker shows some R&D projects related with energy saving, i.e., Live E! Project and Green University of Tokyo Project. The real goal of these projects is sharing any digital information over the globe to achieve higher efficiency on human and social activities and to establish the digital network infrastructure to achieve sustainable innovations.



Keynote Speech 2: Visions for the future Internet

Speaker : Dr. Yanghee Choi
(Professor of Seoul National University, Korea)

The Internet as of today is facing big challenges; security, management, cost, social implications etc. It is now generally agreed that the current Internet is inadequate to serve as the critical national and global infrastructure because of its loose specifications written long ago. Future Internet which is expected to solve all the pending problems, will be based on a new architecture, new protocols, and new paradigm. The motivation, goal, direction, and implications of the future Internet will be discussed in this keynote with the aim of promoting debates from the audience. Finally, several options that Korea can choose as its national strategies to develop and build the future Internet will be described.





TECHNICAL SESSIONS

Day 2 : February 16 (Monday)

Session 1 09:00 ~ 10:20

Session 1A: Wireless Communication Technology (I)
Chair: Ju Bin Song (Kyung Hee University, Korea)

Room Emerald

1. A Performance Evaluation of an RC Polyphase Filter with Parasitic Elements, Shunsaku MATSUNO, Wahyul Amien SYAFEI, Cosy MUTO, Masayuki KUROSAKI, Hiroshi OCHI (Kyushu Institute of Technology, Japan)
2. OFDM Channel Estimation based on Gaussian Radial Basis Function Interpolation, M. Hoseinzade, K. Mohamedpour, S. M. H. Andargoli, H. Shokri. Razaghi (K.N. Toosi University of Technology, Iran)
3. Behaviors of MIMO UWB-IR Transceiver for Statistical Wireless Channels, Xu Huang (University of Canberra, Australia)
4. An Error Control Scheme of Hybrid ARQ Based on Conception of Plurality Voting, Chia-Chin Ma (Chang Gung University, Taiwan), Hsin-Kun Lai (Chin Min Institute of Technology, Taiwan), Erl-Huei Lu (Chang Gung University, Taiwan)
5. Orthogonal Pulse Design for UWB Systems with Timing Jitter, Wilaiporn Lee (King Mongkut's University of Technology North Bangkok, Thailand), Somchai Jitapunkul (Chulalongkorn University, Thailand)
6. DP4T CMOS Transceiver Selection for MIMO Systems, Theera Mekanand, Thanakorn Bumrungrkitjaroen, Duangrat Eungdamrong (Thammasat University, Thailand)

Session 1B: Mobile Communications (I)

Room Ruby I

Chair: Mohamed M. A. Moustafa (Akhbar El Yom Academy, Egypt)

1. A Study on Optical Wireless Train Communication System using Mobile Object Tracking Technique, Masato Hiruta, Masao Nakagawa, Shinichiro Haruyama, Shoichi Ishikawa (Keio University, Japan)
2. A Cognitive MAC for VANET based on the WAVE Systems, Seung-eun Chung, Joon Yoo, Chong-kwon Kim (Seoul National University, Korea)
3. Supporting Scalable Multiparty Session in P2P based Mobile Instant Messaging, Yen-Wen Lin (National Taichung University, Taiwan), Li-Su Kuo (National Chiayi University, Taiwan)
4. Design of Multi-thread based Scheme in a Flash Translation Layer, Jin-Tae Kim, Dong-Geun Shin (Sungkyunkwan University, Korea)
5. A New Strategy to Implement Security in an Area using Picocell Base Transceiver Station, S.H. Shah Newaz, Jong Min Lee (Information and Communications University, Korea), Sarwar Jahan, M.R. Amin (East West University, Bangladesh), JunKyun Choi (Information and Communications University, Korea)



TECHNICAL SESSIONS

Session 1C: Next Generation Network Technology (I)	Room Ruby II
Chair: Byoung-Whi Kim (ETRI, Korea)	
<ol style="list-style-type: none"> 1. Internetworking Circuit and Connectionless Networks, Xiuduan Fang, Malathi Veeraraghavan (University of Virginia, USA) 2. NGN Deployment Model for Customized Multimedia Ring Service (CMR), Heechang Chung, Byung-Ik Choi, Sun-Moo Kang, Yeong ro Lee (National Information Society Agency, Korea) 3. Cross-Layer QoS Architecture for 4G Heterogeneous Network Services, Jiann-Liang Chen, Ming-Chiao Chen (National Taiwan University of Science and Technology, Taiwan), Shih-Wei Liu, Jyun-Yu Jhuo (National Dong Hwa University, Taiwan) 4. ID/LOC Separation Network Architecture for Mobility Support in Future Internet, Nakjung Choi, Taewan You (Seoul National University, Korea), Jungsoo Park (ETRI, Korea), Taekyoung Kwon, Yanghee Choi (Seoul National University, Korea) 5. A Modified Genetic Algorithm for the Optimization of Aggregated Multicast, Hua Wang, Zuquan Ge, Chaoying Yu, Shanwen Yi (Shandong University, China) 6. Cache Server and White List Filtering for the Second Life, Fumikazu Iseki, Moo Wan Kim, Takahiro Uchiyama, Kiho Moon (Tokyo University of Information Sciences, Japan) 	
Session 1D: RFID & USN Technologies (I)	Room Topaz I
Chair: Kwang-Jin Paek (ETRI, Koera)	
<ol style="list-style-type: none"> 1. An Application of Wireless Sensor Network to realize Ground Truth, Moo Wan Kim, Kwang Sik Kim (Tokyo University of Information Sciences, Japan) 2. Multi-hop Mesh Cooperative Structure based Data Dissemination for Wireless Sensor Networks, Min Chen (University of British Columbia, Canada), Xuedong Liang (University of Oslo, Rikshospitalet University Hospital, Norway), Victor Leung (University of British Columbia, Canada), Ilangko Balasingham (Rikshospitalet University Hospital, Norwegian University of Science and Technology, Norway) 3. Quality of Service (QoS) Classes for Ubiquitous Sensor Networks, A.Koucheryavy (ZNIIS, Russia), A.Prokopiev (JSC Ubitel, Russia) 4. Inkjet Printed Paper Based Quadrature Bowtie Antennas For UHF RFID Tags, Yasar Amin (Royal Institute of Technology-KTH, University of Oulu, Sweden, Finland), Satu Prokkola (University of Oulu, Finland), Botao Shao, Julius Hållstedt, Hannu Tenhunen, Li-Rong Zheng (Royal Institute of Technology-KTH, Sweden) 5. Global Healthcare Monitoring System using 6lowpan Networks, Dhananjay Singh (Dongseo University, Korea), U.S. Tiwary (Indian Institute of Information Technology, India), Hoon-Jae Lee (Dongseo University, Korea), Wan-Young Chung (Pukyong National University, Korea) 	



TECHNICAL SESSIONS

Session 1E: Systems & Software Engineering (I) Chair: JongHyup Lee (Inje University, Korea)	Room Topaz II
<ol style="list-style-type: none">1. Experiences of Risk Enhanced Value Assessment in a Software Company, Pasi Ojala (Oulu University of Applied Sciences, Finland)2. Advanced Designer-Oriented System in VR Environment, HaDong Kim, Byung-Mo Han, Jong Namgung, Dong-Sik Shin (CGWave, Inc., Korea), Hyo-Gun Yoon, Malrey Lee (Chonbuk National University, Korea), Yong-Tae Won (Mokpo National University, Korea), Kyu-Sik Lee (KyungBuk College, Korea)3. Towards Contextual Information Based-Approach to Support Software Reuse System, Hend Ben Hadji, Ho-Jin Choi (Information and Communications University, Korea)4. Security Policy Modeling Using Z Notation for Common Criteria Version 3.1, Junkil Park, Jin-Young Choi (Theory and Formal Methods Laboratory, Korea)5. Integrating Physical Programming to Information Security System Management, Pauline Kongsuwan, Sangmun Shin (Inje University, Korea)	
Session 1F: Network Management, Operation and Maintenance (I) Chair: Yukinobu Fukushima (Okayama University, Japan)	Room Topaz III
<ol style="list-style-type: none">1. Effective High Speed Traffic Replay Based on IP Space, Dung PHAM VAN, Marat ZHANIKEEV, Yoshiaki TANAKA (Waseda University, Japan)2. QoS Control in Service Delivery in IMS, Muhammad Shoaib Siddiqui, Riaz Ahmed Shaikh, Choong Seon Hong (Kyung Hee University)3. Research on Survivability in Multi-service-based Multi-domain Optical Networks, Zhao Ji-hong (Xi'an Jiangtong University, Xi'an Institute of Posts & Telecommunications, China), Mao Hong-bao, Qu Hua (Xi'an Institute of Posts & Telecommunications, China)4. Fast Traffic Anomalies Detection using SNMP MIB Correlation Analysis, Dong Cheul Lee, Byungjoo Park, Ki Eung Kim, Jae Jin Lee (KT, Korea)5. Exploring the Correlation between P2P Applications and Network Architecture, Chang-Sheng Chen, Ta-Chung Liu, Chun-Hsien Su (National Chiao Tung University, Taiwan)	
Coffee Break 10:20 ~ 10:40	



TECHNICAL SESSIONS

Session 2 10:40 ~ 12:00	
Session 2A: Wireless Communication Technology (II) Chair: Heung-Gyoon Ryu (Chungbuk National University, Korea)	Room Emerald
<ol style="list-style-type: none">1. Matched Filter Implementation on FPGA for Integrand Code Using a Real-valued Shift-orthogonal Finite-length Sequence, Takahiro Matsumoto, Shinya Matsufuji (Yamaguchi University, Japan)2. Gain-Bandwidth Adjusting Technique of A 36.1 GHz Single Stage Low Noise Amplifier using 0.13μm CMOS Process, S. M. Shahriar Rashid, Sheikh Nijam Ali, Apratim Roy, A. B. M. H. Rashid (Bangladesh University of Engineering & Technology, Bangladesh)3. Adaptive Loading in HF Communications, Xudong Chen, Shuzheng Xu (Tsinghua University, China)4. Performance Study of Wireless Universal Serial Bus Transmission System, Heng-Te Li, Hao-Yu Chan, Chia-Wei Chao, Wen-Piao Lin (Chang Gung University, Taiwan)5. A Modified Design of Slot Ring using E-Shape, Pongchompoo R., Santitewagul V., Eungdamrong D. (Thammasat University, Thailand)	
Session 2B: Mobile Communications (II) Chair: Mohamed M. A. Moustafa (Akhbar El Yom Academy, Egypt)	Room Ruby I
<ol style="list-style-type: none">1. SIP Deployment in Integrated Mobile Ad Hoc Networks: Centralized and Quasi-Decentralized Approaches, Kirill Balov, Kyoji Kawagoe, Toshikazu Nishimura (Ritsumeikan University, Japan)2. Application Framework for Multi Platform Mobile Application Software Development, Yoonseok Choi, Jin-Seok YANG, Jaewon Jeong (POSTECH, Korea)3. Improved Frequency Channel Borrowing and Locking Algorithm in Cellular Mobile Systems, Do Huu Tri (Post and Telecommunication Institute, Vietnam), Vu Duy Loi (Centre of Information Technology Office of Central Committee of Vietnam Communist Party, Vietnam), Ha Manh Dao (Institute of Information Technology, Vietnam)4. B-PMIPv6: PMIPv6 with Bicasting for Soft Handover, Ji-In Kim, Seok-Joo Koh (Kyungpook National University, Korea), Nam-Seok Ko (ETRI, Korea)5. Sending Pictures by SMS, Mohammad Shirali-Shahreza, Sajad Shirali-Shahreza (Sharif University of Technology, Iran)	



TECHNICAL SESSIONS

Session 2C: Next Generation Network Technology (II) Chair: Jongwon Choe (Sookmyung Women's University, Korea)	Room Ruby II
<ol style="list-style-type: none">1. A Method for Performing Connection Admission Control in DiffServ Networks, Nguyen Hong Son, Le Huu Lap (Post and Telecom Institute Technology, Vietnam)2. Performance Enhancement in Future PON and Mobile Convergence Networks, Seung-Hee Lee, Jae Gwan Kim, Min-Ho Kang (Information and Communications University, Korea)3. Handover between Macrocell and Femtocell for UMTS based Networks, Mostafa Zaman Chowdhury (Kookmin University, Korea), Won Ryu, Eunjun Rhee (ETRI, Korea), Yeong Min Jang (Kookmin University, Korea)4. A Study on IEEE 802.21 MIH Frameworks in Heterogeneous Wireless Networks, Moon Kim, Tae-wook Moon, Sung-joon Cho (Graduate School of Korea Aerospace University, Korea)5. A Statistical Service Composition Approach based on Hidden Hierarchy Markov Model, Hao Yang, Hui Xu (GuangDong Electric Power Institute, China), Ying Zhang (Beijing University of Posts & Telecommunications, China)	
Session 2D: RFID & USN Technologies (II) Chair: Min Chen (University of British Columbia, Canada)	Room Topaz I
<ol style="list-style-type: none">1. Object Identification for Ubiquitous Networking, Gyu Myoung Lee (Institute TELECOM SudParis, France), Jun Kyun Choi (Information and Communications University, Korea), Noel Crespi (Institute TELECOM SudParis, France)2. Effects of Antenna Polarization on RSSI based Location Identification, Mark Barralet, Xu Huang, Dharmendra Sharma (University of Canberra, Australia)3. Dynamic Prediction Clustering Scheme for Mobile Sensor Node of Sensor Network Environment, YOUNB-BOK CHO, YOON-SU JEONG, SANG-HO LEE (Chungbuk National University, Korea)4. WSN Research Activities for Military Application, Md.Asdaque Hussain, Pervez khan, Kwak kyung Sup (Inha University, Korea)5. Extension of Wireless Sensor Network by Employing RoF-based 4G Network, Monir Hossen, Byung-Jun Jang, Ki-Doo Kim, Youngil Park (Kookmin University, Korea)	



TECHNICAL SESSIONS

Session 2E: Systems & Software Engineering (II)	Room Topaz II
Chair: Hsin-Kun Lai (Chin Min Institute of Technology, Taiwan)	
<ol style="list-style-type: none">1. A Practical Case Study of Scenario Analysis for RFID System Implement, Kuo-shien Huang, Shun-ming Tang (National Yunlin University of Science and Technology, Taiwan)2. Defining Reference Architecture for NTIS Development, Heeseok Choi, Chulsoo Lim, Jaesoo Kim (KISTI, Korea)3. A Study on Software Component Selection Methods, Syed Ahsan Fahmi, Ho-Jin Choi (Information and Communications University, Korea)4. Personalized Virtual Machine based on User's Schedule Event, Kyuchang Kang, Jeunwoo Lee (ETRI, Korea), Hoon Choi (Chungnam National University, Korea)5. Building a Semantic Model of a Textual Document for Efficient Search and Retrieval, Enkhbold Nyamsuren, Ho-Jin Choi (Information and Communications University, Korea)	
Session 2F: Network Management, Operation and Maintenance (II)	Room Topaz III
Chair: Kwangjong Cho (KISTI, Korea)	
<ol style="list-style-type: none">1. A Validity Tester for Active Measurement Tools, Myrvin YAP, Marat ZHANIKEEV, Yoshiaki TANAKA (Waseda University, Japan)2. An Integrated Security Mechanism for Network Coding Combining Confidentiality and Integrity, Ji-yong Park, Mi-sun Ryu (Information and Communications University, Korea), Eui Suk Jung, Dong-Min Seol (ETRI, Korea), Hong-shik Park (Information and Communications University, Korea)3. An Adaptive Wrapper Algorithm for File Transfer Applications to Support Optimal Large File Transfers, Alireza Ghobadi, C. Eswaran, Nithiapidary Muthuvelu, Ian K.T. Tan (Multimedia University, Malaysia), Yong Lee Kee (Intel Technology Sdn. Bhd., Malaysia)4. A Hyper-cube Based Modified Spanning Tree Protocol for VLANs, Moosa Ahmadi, Abbas Ali Mohammad Zamani (Islamic Azad University Najafabad Branch, Iran)5. Distributed Mixed Protection Mechanism for Dynamic Traffic in WDM Optical Networks, Chen-Shie Ho (Oriental Institute of Technology, Taiwan), Kuo-Cheng Chiang (VaNung University, Taiwan)	



TECHNICAL SESSIONS

Session 2G: Poster Session (I)

Room Diamond I

1. Correlation Analysis of MIMO Subchannels in LOS Environments, Jongho Kim, Young-Keun Yoon (ETRI, Korea)
2. Performance Analysis of Distributed Cooperative Spectrum Sensing for Underlay Cognitive Radio, Myung Keun Yoon, Ki Hwan Lee, Ju Bin Song (Kyung Hee University, Korea)
3. UWB Antenna with Frequency Diversity Characteristics using PIN-diode Switches, Sang Won Yoon, Le Huu Truong, Hyun Seok Lee (Dongguk University, Korea), Eunice J. Park (Daewon Foreign Language High School, Korea), Hyung Moo Park, Jin Koo Rhee, Hyun Chang Park (Dongguk University, Korea)
4. A Study on the Efficient Promotion of USIM-related Services in Korea, Jeong-Tae Kim (ETRI, Korea)
5. A Mechanism of Resource Control in TOCF(Transport Overlay Control Function) Architecture for IPTV Service in NGN, Yangjung Kim, Eungkyu Kim, Ilyoung Chong (Hankuk University of Foreign Studies, Korea), Jinkyung Hwang (KT, Korea)
6. Identification of RFID Tags in Dynamic Framed Slotted ALOHA, Okkyeong Bang, Sunghyun Kim, Hyuckjae Lee (Information and Communications University, Korea)
7. An Energy-aware Routing Protocol Considering Link-Layer Security in Wireless Sensor Networks, Sung-Chul Jung, Hyoung-Kee Choi (Sungkyunkwan University, Korea)
8. General Purpose Hardware Abstraction Layer for Multiple Virtual Machines in Mobile Devices, Sang-Min Lee, Dong-Geun Kim, Dong-Ryeol Shin (Sungkyunkwan University, Korea)
9. SAFE: Scalable Autonomous Fault tolerant Ethernet, Kiyong Kim, Yeonseung Ryu, Jong-myung Rhee (Myongji University, Korea), Dong-ho Lee (Agency of Defence Development, Korea)
10. Test and Performance Comparison of End-to-End Available Bandwidth Measurement Tools, Young-Tae Han, Eun-Mi Lee, Hong-Shik Park (Information and Communications University, Korea), Ji-Yun Ryu, Chin-Chol Kim, Myung-Won Song (National Information and Society Agency, Korea)
11. Efficient Tree Management for Resilient Overlay Multicast, Young-Hyun Kim, Sin-Gak Kang (ETRI, Korea), Hyoung-Sik Kim (Chungnam National University, Korea)
12. Current Status of Radio Spectrum Management Policy in Korea and Related Issues, Ho Yeong Kim (Information and Communications University, Korea), Joo Seong Park, Osang Kweon (KORPA, Korea)
13. Performance Analysis of the VLC System with Modified HDB3 Line Coding, Yoon Hyun Kim, Jae Hyuck Choi, Jin Young Kim (Kwangwoon University, Korea)
14. Implementation of Internet Protocol Multimedia Subsystem for Femtocell Network, Yong-il Oh, Jin Young Kim (Kwangwoon University, Korea)
15. Mobility Management of Mobile Node in Relay-based Overlay Multicast, Chang-Kyu Lee, Sung-Hei Kim, Shin-Gak Kang (ETRI, Korea)
16. Performance of Multi-user MIMO OFDM System with Adaptive Modulation and Coding for Wireless Communications, Kwang Yoon Kim, Yoon Hyun Kim, Jin Young Kim (Kwangwoon University, Korea)



TECHNICAL SESSIONS

Session 2G: Poster Session (I)

Room Diamond I

17. Quality-of-Service Scheduler for Next Generation Network Services, Hyung-Woo Choi, Young-Min Kim, Hong-Shik Park (Information and Communications University, Korea), Hyun-Yong Hwang, Bum-Chul Lee (ETRI, Korea)
18. Design and Implementation of IPv6 Packet Forwarding Engine for Flow based Router, Yong-Wook Ra (ETRI, Information & Communications University, Korea), Chang-Ho Choi, Byung-Jun Ahn (ETRI, Korea)
19. Directory Facilitator for LEACH in Wireless Sensor Network, Jong-Wan Yoon, Sung-Jun Na, Kee-Hyun Choi, Dong-Ryeol Shin (Sungkyunkwan University, Korea)
20. Cluster Adaptation Method to Enhance Performance of Filtering Scheme in Sensor Networks, Byung Hee Kim, Soo Young Moon, Hae Young Lee, Chung Il Sun, Tae Ho Cho (Sungkyunkwan University, Korea)
21. An Architectural Design Decision-centric Approach to Architectural Evolution, Youhee Choi (ETRI, Korea), Heeseok Choi (KISTI, Korea), MoonKyun Oh (ETRI, Korea)
22. Design Service for OSS based on the SOA and TMForum NGOSS, Kisang Ok, Daniel Wonkyu Hong, Byungdeok Chung (KT, Korea)
23. Dynamic Maintenance Method of Timing Synchronization for Soft Handover, Hyoungwon Kwak, Poongup Lee (Sungkyunkwan University, Korea), Abhishek Roy (Samsung Electronics, Korea), Navrati Saxena, Jitae Shin (Sungkyunkwan University, Korea)
24. Grid Computing Platform for Secure Multi-Job Operation, Jiho Kim, Minhyun Lee, Ohyoung Song (Chung-Ang University, Korea)
25. The Resource Management Method for Providing VoIP Service with Guaranteed QoS in BcN, Sang Kwon Kim, Dong Hyeon Lee, Kyu Ouk Lee (ETRI, Korea)
26. A Dual-PTZ-camera System for Visual Tracking of a Moving Target in an Open Area, Hsien-Chou Liao, Wei-Yi Chen (Chaoyang University of Technology)
27. Rateless Erasure Resilient Codes for Content Storage and Distribution in P2P Networks, Saejoon Kim, Seunghyuk Lee (Sogang University, Korea)
28. A Simple Passive Protection Structure in a Ring-Type Hybrid WDM/TDM-PON, Dong-Min Seol (ETRI, Korea University of Science and Technology, Korea), Eui-Suk Jung (ETRI, Korea), Byoung-Whi Kim (ETRI, Korea University of Science and Technology, Korea)

Lunch 12:00 ~ 13:20



TECHNICAL SESSIONS

Session 3 13:20 ~ 14:40	
Session 3A: Wireless Communication Technology (III)	Room Emerald
Chair: Takahiro Matsumoto (Yamaguchi University, Japan)	
<ol style="list-style-type: none"> 1. Performance of RSCC-QPSK-OFDM System with Phase Error and Perfect Compensation in Rayleigh Fading Channel, Said M. Elnoubi, Shawki Shaaban (Alexandria University, Egypt), Sherif Samir A. Elbadawy (Air Defense College, Egypt) 2. Single Carrier Transmission with Frequency Domain Equalization (SC/FDE) System with a PAPR of Unity, Tufik Buzid (Erlangen-Nuernberg University, Germany), Mario Huemer (Alpen-Adria-University Klagenfurt, Austria) 3. Design Bottlenecks of TC & TM Spread Spectrum Links in UAVs, M.R. Tarihi, M.Shafiee Neyestanak (Communication Research Center, Iran) 4. Multiuser Detections for TH-UWB Systems with M-ary PPM, Szu-Lin Su, Wen-Jun Lin, Yi-Ching Pan, Yung-Chuan Lin (National Cheng Kung University, Taiwan) 5. Double Pole Four Throw CMOS Switch in a Transceiver of MIMO Systems, Piya Mekanand, Duangporn Puttadilok, Duangrat Eungdamrong (Sirindhorn International Institute of Technology, Thailand) 6. A Low Complexity MSK-Based M-ary Cyclic Shift Keying Transceiver for Direct Sequence Spread Spectrum System over Multipath Fading Channels, Juinn-Horng Deng, Shu-Min Liao (Yuan Ze University, Taiwan), Gau-Joe Lin (Chung-Shan Institute Science & Technology, Taiwan) 	
Session 3B: Mobile Communications (III)	Room Ruby I
Chair: Heung-Gyoon Ryu (Chungbuk National University, Korea)	
<ol style="list-style-type: none"> 1. Scaled SLM for PAPR Reduction of OFDM Signal in Impulsive Noise Channel, Jea Sun Lee, Jin Young Kim (Kwangwoon University, Korea) 2. Cyclic Delay Diversity with Linear Precoding Technique adopted in OFDM Systems, Bing Hui, KyungHi Chang (Inha University, Korea) 3. Analysis of Uplink Capacity and Coverage in TD-SCDMA Systems, Jeong Gon Kim (Korea Polytechnic University, Korea), Sung-Moon Shin (ETRI, Korea) 4. A Novel Robust Fault Tolerant Scheme for Hierarchical AAA in Mobile Networks, Li Wang, Mei Song, Yi Man, Yong Zhang, JiaJia Wang, Junde Song (Beijing University of Posts and Telecommunications, China) 5. Two Dimension Channel Estimations with Reduced Pilot Arrangements for OFDM Systems, Sangjun Bae, Yoonho Jang (Inha university, Korea), Sunkyung Shin (ETRI, Korea), Zhao Chengshi, Kyoungsup Kwak (Inha university, Korea) 6. Power Management of Multi-radio Mobile Nodes using HSDPA Interface Sensitive APs, Hyunho Park, Junghoon Jee, Changmin Park (ETRI, Korea) 	



TECHNICAL SESSIONS

Session 3C: Next Generation Network Technology (III) Chair: Gyu Myoung Lee (Institute TELECOM SudParis, France)	Room Ruby II
<ol style="list-style-type: none">1. A Unified Distributed Directory based Service Delivery Architecture for Metro Ethernet Networks, Ravi Kumar Buregoni (Infosys Technologies Ltd., India)2. The Aggregation of Multicast Tree State Information with Delay-Bandwidth Constraints, Hong-yu Hu, Hui-mei Lu, Yuan-da Cao, Si-min Rao (Beijing Institute of Technology, China)3. A Self-Stabilizing Distributed Algorithm for Minimum Connected Dominating Sets in Wireless Sensor Networks with Different Transmission Ranges, H. Raei, M. Tabibzadeh, B. Ahmadipoor (University of Yazd, Iran), S. Saei (Shiraz University, Iran)4. A Perfect-Hashing Scheme for Fast IP Lookup, Yun-Zhao Li (National University of Defense and Technology, Southwest Electronics and Telecommunication Technology Research Institute, China)5. Themes4BPEL: An Efficient Aspect-oriented Web Service Composition Design Approach, Ying Zhang, Hao Yang, Junliang Chen, Xiangwu Meng (Beijing University of Posts & Telecommunications, China)	
Session 3D: RFID & USN Technologies (III) Chair: Cong Hung Tran (Posts & Telecommunications Institute of Technology, Vietnam)	Room Topaz I
<ol style="list-style-type: none">1. Efficient K-coverage Grouping Scheduling in Wireless Sensor Networks, Meng-Chun Wueng, Han-Pei Lin, Shyh-In Hwang (Yuan Ze University, Taiwan)2. Stochastic Coverage Analysis of Wireless Sensor Network with Hybrid Sensing Model, Subodh Pudasaini, Sangman Moh, Seokjoo Shin (Chosun University, Korea)3. A Novel Service Architecture for Personalized Context Aware Services, Jaeyong An, Sangheon Pack, Sunshin An (Korea University, Korea), Minsu Kim, Youngki Jeon (Samsung Electronics, Korea)4. Calibration Mechanism for RSS based Localization Method in Wireless Sensor Networks, Cong Tran-Xuan, Van-Hiep Vu, Insoo Koo (University of Ulsan, Korea)5. Energy-efficient Node-level Compression Arbitration for Wireless Sensor Networks, Beihua Ying, Wei Liu, Yongpan Liu, Huazhong Yang, Hui Wang (Tsinghua University, China)	



TECHNICAL SESSIONS

Session 3E: Systems & Software Engineering (III)	Room Topaz II
Chair: Hyong-Soon Kim (NIA, Korea)	
<ol style="list-style-type: none"> 1. An Approach to Concurrent Development of Device Drivers and Device Controller, Edson B. Lisboa, Luciano Silva, Thiago Lima, Igino Chaves, Edna Barros (Federal University of Pernambuco, Brazil) 2. Software Component Reusability Measure in Component Grid, Seungwon Lee, Ho-Jin Choi (Information and Communications University, Korea) 3. Activity Time Collection and Analysis through Temporal Reasoning, Ahmad Ibrahim, Ho-Jin Choi (Information and Communications University, Korea) 4. Analysis of Ontology Development Methodology based on OTK and CMMI Level 4, Sang Hun Lee, Ho-Jin Choi, Sukyoung Kim (Information and Communications University, Korea) 5. Z-Miner: Noise Filter In Mining Frequent Access Patterns, Zhu Xudong, Meng Xiaoxuan, Xiao Wenshu, Ke Jian (Chinese Academy of Sciences, Graduate University of the Chinese Academy of Sciences, China), Xu Lu (Chinese Academy of Sciences, China) 	
Session 3F: Communication Network Topology & Planning (I)	Room Topaz III
Chair: Tokumi Yokohira (Okayama University, Japan)	
<ol style="list-style-type: none"> 1. Influence of Schematic Network Topology Models over Real Physical Networks, Jose M. Gutierrez, Tahir Riaz, Jens M. Pedersen, Ole B. Madsen (Aalborg University, Denmark) 2. An Analytic Model for Spanning Tree based Routing Methods, Changjin Suh (Soongsil University, Korea), Zhen Luo (Soongsil University, Shenyang Institute of Aeronautical Engineering, Korea, China), Do-yeon Kim, Bheom-soon Joo (ETRI, Korea) 3. Selection of Backup LSPs in MPLS Network based on QoS, Arash Dana (Islamic Azad University, Iran), Ahmad Khademzadeh (Iran Telecommunication Research Center, Iran), Hesam Hoseinzadeh (Islamic Azad University, Iran) 4. The New Torus Network Design based On 3-Dimensional Hypercube, Woo-seo Ki, Hyeong-Ok Lee, Jae-Cheol Oh (Suncheon National University, Korea) 5. Network Congestion Control Algorithm with Cooperation between Edge and Core Routers, Lingyun Lu, Yang Xiao (Beijing Jiaotong University, China), Seok Woo, Kiseon Kim (GIST, Korea) 	
Coffee Break 14:40 ~ 15:00	



TECHNICAL SESSIONS

Session 4 15:00 ~ 16:20	
Session 4A: Wireless Communication Technology (IV) Chair: KyungHi Chang (Inha University, Korea)	Room Emerald
<ol style="list-style-type: none"> 1. Applying the Time-To-Live Parameter in On Demand Route Caching in MANETs, Spanakis Emmanouil, Apostolos Traganitis (University of Crete, Greece) 2. An Enhanced V-blast MIMO System using Joint Source and Channel Coding, Lydia Sari, Gunawan Wibisono, Dadang Gunawan (University of Indonesia, Indonesia) 3. A Robust and Energy Efficient Cooperative Spectrum Sensing Scheme in Cognitive Radio Networks, Yue Wang, Chunyan Feng, Zhimin Zeng, Caili Guo (Beijing University of Posts and Telecommunications, China) 4. Research on Implementation of OFDM Burst Packet Transmission on Software Radio Platform of FPGA, Liu Liu, Tao Cheng, Qi Xiaoyu, Qiu Jiahui (Beijing Jiaotong University, China) 5. Congestion Detection and Control Algorithms for Multipath Data Forwarding in Sensor Networks, Md. Abdur Razzaque, Choong Seon Hong (Kyung Hee University, Korea) 6. Packet Scheduling to Support Both of Real-time and Non-real-time Services, Eunyoung Lee, Hyung-Kun Park (Korea University of Technology and Education, Korea) 	
Session 4B: Mobile Communications (IV) Chair: Xu Huang (University of Canberra, Australia)	Room Ruby I
<ol style="list-style-type: none"> 1. A Management Service for P2P Content over MANets, Marcelo H. Vithoft, Altair O. Santin, Luiz A. de Paula Lima Jr. (Pontifical Catholic University of Paraná, Brazil) 2. The Effects of Energy-balancing on Multipaths by Packet Allocating in Ad Hoc Networks, Chen Ni, Chanheum Park, Dongxue Jin, Jaeill Kim, Chonggun Kim (Yeungnam University, Korea) 3. Water Filling Algorithm for the Throughput Improvement of FH-OFDM System, Xiupei Zhang, Heung-Gyoon Ryu (Chungbuk National University, Korea) 4. Performance Analysis of Routing Protocols in Mobile Ad-hoc Networks under Group Mobility Environment, In-Ho Yeo, Yong-Won Kim, Jong Myung Rhee (Myongji University), Hyun-A Kim, Hyo-Sik Yang (Sejong University) 5. Voice Communication over GGSN/SGSN, Ahmad Ali Habeeb (Accenture Services Private Ltd., India), Mohammed A Qadeer (Aligarh Muslim University, India), Shamshir Ahmad (Computer Sciences Corporation, India) 	



TECHNICAL SESSIONS

Session 4C: Next Generation Network Technology (IV) Chair: Moo Wan Kim (Tokyo University of Information Sciences, Japan)	Room Ruby II
<ol style="list-style-type: none">1. Networks Interoperability, A. Koucheryavy (ZNIIS, Russia)2. Resource Allocation and Admission Control based on Flow Congestion Probability in MPLS Networks, Yan Jiangzhou, Liu Zengji (Xidian University, China)3. Copy Number based Multicast Scheduling Algorithm in Broadband Banyan Network, YoungHwan Kwon, Jun Kyun Choi, Soohyung Kim (Information and Communications University, ETRI, Korea)4. IPv6 over Broadcasting Networks: Convergence, Trial and Large-scale Application, Jun Zhang (Chinese Academy of Sciences, Inner Mongolia University, Graduate University of Chinese Academy of Sciences, China), Xin-min Ye (Inner Mongolia University, China), Zhijun Xu (Chinese Academy of Sciences, Inner Mongolia University, Graduate University of Chinese Academy of Sciences, China), Jing Liu (Chinese Academy of Sciences, Graduate University of Chinese Academy of Sciences, China), Jun Li (Chinese Academy of Sciences, China)5. Architecture and Service Scenario for Multi-media Voice among BcN Operators, Kyu Ouk Lee, Soon Seok Lee (ETRI, Korea)	
Session 4D: RFID & USN Technologies (IV) Chair: ChongGun Kim (Yeungnam University, Korea)	Room Topaz I
<ol style="list-style-type: none">1. Integrated Wireless Access Point Architecture for Wireless Sensor Networks, Ying-Chen Chen, Chi-Cheng Chuang, Ray-I Chang, Jia-Shian Lin, Te-Chih Wang (National Taiwan University, Taiwan)2. Efficient Mining of Association Rules from Wireless Sensor Networks, Syed Khairuzzaman Tanbeer, Chowdhury Farhan Ahmed, Byeong-Soo Jeong, Young-Koo Lee (Kyung Hee University, Korea)3. A Localization Algorithm using Space Information for Indoor Wireless Sensor Networks, Hojae Lee, Sanghoon Lee (Yonsei University, Korea), Yeonsoo Kim, Hakjin Chong (KT, Korea)4. Relative Location Estimation of Vehicles in Parking Management System, Mohammad Shaifur Rahman, Youngil Park, Ki-Doo Kim (Kookmin University, Korea)5. A Priority-based Pattern Matching Location Algorithm for Wireless Sensor Networks, Jia-Shian Lin, Chi-Cheng Chuang, Ray-I Chang, Ying-Chen Chen, Te-Chih Wang (National Taiwan University, Taiwan)	



TECHNICAL SESSIONS

Session 4E: Telematics Technology Chair: Hyong-Soon Kim (NIA, Korea)	Room Topaz II
<ol style="list-style-type: none"> 1. Development of a Telematics Service Framework for Open Services in the Heterogeneous Network Environment, Deuk-Woo Lee, Hong-Koo Kang, Dong-Oh Kim, Ki-Joon Han (Konkuk University, Korea) 2. Development of a Common Vehicle Router Platform for Multiple ITS Applications and Communication Media, Junghyung Kim, Joonghyup Ko (Kyungbong Co.,Ltd., Korea), Sung-Ho Oh (KRIHS, Korea), Jihyeon Yoon (Kyungbong Co.,Ltd., Korea) 3. Efficient Discovery Technique of Distributed KML Data in Mobile Ad Hoc Network, Tadanobu Tsunoda, Kaoru Sezaki (The University of Tokyo, Japan Science and Technology Agency, Japan) 4. Attention based Driving Event Simulator for Telematics Environment, Daesub Yoon, Jongwoo Choi, Kyongho Kim, Hyunsuk Kim (ETRI, Korea), N. Hari Narayanan (Auburn University, U.S.A.) 5. An Automatic Camera Calibration Method using GPS-enabled Mobile Device, Hsien-Chou Liao, Hong-Jih Wu (Chaoyang University of Technology, Taiwan) 	
Session 4F: Communication Network Topology & Planning (II) Chair: Dong Cheul Lee (KT, Korea)	Room Topaz III
<ol style="list-style-type: none"> 1. Application of Code Average Method for GSM Coverage Prediction in Different Environment, Mohd Nazrul Hanif Nordin, Masru Laili Mursidi, Zabidah Saleh (Telekom Research & Development Sdn Bhd, Malaysia) 2. A study on Architecture of CDN(Content Delivering Network) with Content Re-distribution Function, Moo-Kyung Sung, Chi-Moon Han (Hankuk University of Foreign Studies, Korea) 3. Multi-perspective Guidelines for the Design of New Network Planning Tools - a Case Study, Sergio Labeaga, Jens Myrup Pedersen, José Manuel Gutiérrez López, M. Tahir Riaz, Ole Brun Madsen (Aalborg University, Denmark) 4. Reliable Data Delivery for Relay-based Overlay Multicast, Sung-Hei Kim, Chang-Kyu Lee, Shin-Gak Kang (ETRI, Korea) 5. An Immune Algorithm for the Optimization of Aggregated Multicast, Hua Wang, Zuquan Ge, Fangji Zhu, Chaoying Yu (Shandong University, China) 	



TECHNICAL SESSIONS

Session 4G: Poster Session (II)

Room Diamond I

1. Interface Selection for Power Management in UMTS/WLAN Overlaying Network, Mostafa Zaman Chowdhury, Yeong Min Jang, Choong Sub Ji, Sunwoong Choi (Kookmin University, Korea), Hongseok Jeon, Junghoon Jee, Changmin Park (ETRI, Korea)
2. Self-Interference Cancellation Method based on V-BLAST in MIMO System, Eun-Ji Yoo, Chang-Bum Jo, Ji-Eun Hwang, Young-Sun Kim, Sang-Woong Bae, So-Youn Park, Dae-Ho Woo, Youn-Shik Byun (University of Incheon, Korea)
3. Data Delivery with End-to-end QoS Guarantee in Tactical Network Interconnected with Wireless Ad-hoc Network and Heterogeneous Networks, Hye-Lim Koo, Byeong-hee Roh (Ajou University, Korea), Young-Keun Park (KUBIX, Korea), Sang-Eon Kim, Yu-Seon Kim (KT, Korea)
4. Efficient Flooding Scheme Based on Regular Polygonal Tiling in Wireless Ad Hoc Networks, In Hur, Trong Duc Le, Hyunseung Choo (Sungkyunkwan University, Korea)
5. Point-and-Click Provision in User-centric ROADM Management System, Eun-Young Cho, Young-Hwa Kim, Kwangjoon Kim, YouHyeon Jeong (ETRI, Korea)
6. Low Complexity Video Enhancement of Video Phone Calls with a Limited Mobile Terminal's Capability, Sungho Lee, Jungyoup Yang, Byeungwoo Jeon (Sungkyunkwan University, Korea)
7. Novel Patching Mechanism by Using Multi-homing, Seung Hyun Jeon, Jong Min Lee (Information and Communications University, Korea), Eun-Young Cho (ETRI, Korea), Jun Kyun Choi, Soo Hyung Kim (Information and Communications University, Korea)
8. The Offloading of Socket Information for TCP/IP Offload Engine, Sunwook Kim, Chanho Park, Seongwoon Kim (ETRI, Korea), Yongwha Chung (Korea University, Korea)
9. Policy Provisioning System Architecture in Broadband Convergence Network, TaeHyun Kwon, Eun-Young Cho, Byungjoon Lee, InSang Choi, Seung-Hyun Yoon, Hyung-Seok Chung, YouHyeon Jeong (ETRI, Korea)
10. A Design for Passive RFID System on a Chip, Chan-won Park, Gil-young Choi, Jong-suk Chae (ETRI, Korea), Bo-gwan Kim (Chungnam National University, Korea)
11. HyPO: A Peer-to-Peer based Hybrid Overlay Structure, Haesun Byun, Meejeong Lee (Ewha Womans University, Korea)
12. The Efficient Initial Signal Detection Technique Using Multi-level Threshold Values in MB-OFDM UWB Systems, Kwibeom Han, Seongjoo Lee (Sejong University, Korea)
13. A Study on IEEE 802.15.4 based Factory Automation System in Wireless Network, Hye-Rim Lee, Il-Young Moon (Korea University of Technology and Education, Korea)
14. A Real-time Observation Scheme for UMTS Networks, Jeong-Je Cho, Nak-Po Kim (KTF, Korea)
15. Improved AODV Routing Protocol for Wireless Sensor Network based on ZigBee, Yu-Doo Kim, Il-Young Moon (Korea University of Technology and Education, Korea)
16. LBS Convergence Agent for Interoperability between LBS Platforms, Jiho Kim, Jungyu Lee, Ohyoung Song (Chung-Ang University, Korea)



TECHNICAL SESSIONS

Session 4G: Poster Session (II)		Room Diamond I
<p>17. Analysis of the Vehicle Information for the Economical and the Ecological Driving Pattern, Jongwoo Choi, Daesub Yoon, Kyuongho Kim, Hyunsuk Kim (ETRI, Korea)</p> <p>18. UML Design of Vehicular Communication Service, SungDae Jung, SangSun Lee (Hanyang University, Korea), KyeongSoo Han, HyunSeo Oh, Dong Young Kwak (ETRI, Korea)</p> <p>19. PTP Interworking 802.15.4 using 6LoWPAN, Keunsol Kim (University of Science and Technology, ETRI, Korea), Seung-Woo Lee, Dae geun Park, Bhum Cheol Lee (ETRI, Korea)</p> <p>20. A 2*n Matrix Hypercube Graph: A Graph With Edges of Hypercube Improved by a half, Hyun Sim, Hyeong-Ok Lee, Jae-Cheol Oh (Sunchon National University, Korea)</p> <p>21. OPeN (Overlaid Personal Network) - A Novel Approach of Sharing Personal Resources, Juyoung Park, Young Il Choi (ETRI, Korea)</p> <p>22. Telnet-based Transport Control, Kang Woon Hong, Won Ryu (ETRI, Korea), Jun Kyun Choi (Information and Communications University, Korea)</p> <p>23. A Study on the Third Phase Plan for Establishing BcN in KOREA, Hyong-Soon Kim (National Information Society Agency, Korea), Jae-Nam Lim (Seoul National University of Technology, Korea), Myungwon Song (National Information Society Agency, Korea), Eunyoung Lee (Dongduk Women's University, Korea)</p> <p>24. RSS-based Cooperative Localization Algorithm using Virtual Reference Node in Wireless Sensor Networks, Seung-heui Jeong, Chang-heon Oh (Korea University of Technology and Education, Korea)</p> <p>25. NLOS Signal Detection Algorithm for TDOA Method in Wireless Sensor Network, Chulgyu Kang, Hyunjae Lee, Changheon Oh (Korea University of Technology and Education, Korea)</p>		
Coffee Break 16:20 ~ 16:40		
Plenary Session	16:40 ~ 18:00	Phoenix Ballroom
Chair: Hyeong-Ho Lee (ICACT2008 TPC Chair)		
<p>1. Contribution of ICT for Environment on the "Earth", Dr. Hiroshi ESAKI (Professor of University of Tokyo, Japan)</p> <p>2. Visions for the future Internet, Dr. Yanghee Choi (Professor of Seoul National University, Korea)</p>		
Opening Ceremony and Banquet	18:30 ~ 20:30	Phoenix Ballroom
Chair: Dr. Thomas Byeong-Nam Yoon (ICACT2009 Organization Committee Chair)		
<p>1. Welcome Address : Dr. Mun-Kee Choi (ICACT2009 General Chair)</p> <p>2. Congratulatory Address : Dr. Byeong Gi Lee (Commissioner of Korea Communications Commission)</p>		



TECHNICAL SESSIONS

Day 3 : February 17 (Tuesday)

Session 5 09:00 ~ 10:20

Session 5A: Wireless Communication Technology (V)

Room Emerald

Chair: Md. Saiful Islam (Bangladesh University of Engineering and Technology, Bangladesh)

1. Improve Efficiency of Ad Hoc Networks with MIMO Communication and Cross Layer MAC Design, Ehsan Soleimani Nasab, Mehrdad Ardebilipour (K.N.Toosi University of Technology, Iran)
2. Novel Protocol for Quantum Cryptography of Secure in Wireless Communications, Xu Huang, Shirantha Wijesekera, Dharmendra Sharma (University of Canberra, Australia)
3. Outage Probability of Opportunistic Decode-and-Forward Relaying with Co-Channel Interferences, Jung-Bin Kim, Dongwoo Kim (Hanyang University, Korea)
4. Robust Null Extension for Two-Dimensional Array Antenna, Jeich Mar, Chi-Cheng Kuo, Shin-Ru Wu, Hsiao-Sheng Wang, You-Rong Lin (Yuan-Ze University, Taiwan)
5. Beamforming with Quantized Feedback to Increase Diversity of Relay Channels, Ebru S. Toker, Özgür Oruç, Mehmet E. Çelebi (Istanbul Technical University, Turkey)

Session 5B: Mobile Communications (V)

Room Ruby I

Chair: Mohamed M. A. Moustafa (Akhbar El Yom Academy, Egypt)

1. A Novel Hierarchical Joint Call Admission Control-HJAC for Multi-service Heterogeneous Wireless Networks, Jiajia Wang, Mei Song, Hao Zhuang, Li Wang, Yong Zhang (Beijing University of Posts and Telecommunications, China)
2. L3 Mobility Support in Large-scale IP-based Sensor Networks (6LoWPAN), Myung-Ki Shin, Hyoung-Jun Kim (ETRI, Korea)
3. Mobile Services: Trends and Evolution, Jahangir Dadkhah Chimeh (Iran Telecommunication Research Center, Iran)
4. An Entropy-based Routing Protocol using Mobility in Mobile Ad-hoc Wireless Sensor Networks, Beongku An, Joo Sang Lee (Hongik University, Korea), Nam-Soo Kim (Cheongju University, Korea)
5. The Proposed Improvement 3-Layer Mobility Management Scheme fir Wireless Mesh Networks using IP Prefix Mechanism, Tran Cong Hung, Le Phuc, Nguyen Ngoc Duy, Do Ngoc Thuy Quynh, Le Quoc Cuong (Posts & Telecommunications Institute of Technology, Vietnam), Boo Keum Jung, Yoohwa Kang (ETRI, Korea)



TECHNICAL SESSIONS

Session 5C: Mobile Internet (I) Chair: Jin Seek Choi (Hanyang University, Korea)	Room Ruby II
<ol style="list-style-type: none">1. A Unified Session Control Protocol for IPTV Services, Shanmugalingam Sivasothy, Gyu Myoung Lee, Noel Crespi (Institute TELECOM SudParis, France)2. Factors Affecting the Switching Intention of IPTV Subscribers, Jaeheung Yoo, Junkyun Choi, Soohyung Kim, Jinhong Yang (Information and Communications University, Korea)3. Low-Complexity Entirely-Overlapped Parallel Decoder Architecture for Quasi-Cyclic LDPC Codes, Weizhi Lu, Piming Ma (Shandong University, China)4. A Seamless Layer-2 Handover Scheme for Mobile WiMAX based Wireless Mesh Networks, Min Kim (Kwangwoon University, Korea), Il-kyeun Ra (University of Colorado Denver, U.S.A.), Ji-sang Yoo, Dong-wook Kim, Hwa-sung Kim (Kwangwoon University, Korea)5. A Low Complexity Cell Search Method for IEEE 802.16e OFDMA Systems, Yung-Chuan Lin, Szu-Lin Su, Shao-Yuan Wu (National Cheng Kung University, Taiwan)	
Session 5D: RFID & USN Technologies (V) Chair: Yao-Chung Chang (National Taitung University, Taiwan)	Room Topaz I
<ol style="list-style-type: none">1. A Content-aware Fridge based on RFID in Smart Home for Home-Healthcare, Hanshen Gu, Dong Wang (Shanghai Jiaotong University, China)2. Virtual Overlay for Service Classification & Discovery in Wireless Sensor Networks, Saad Ahmed Munir, Xie Dongliang (Beijing University of Posts & Telecommunications, China), Chen Canfeng, Jian Ma (Nokia Research Center, China)3. Accurate Modeling for Predicting Cryptography Overheads on Wireless Sensor Nodes, Wei Liu, Beihua Ying, Huazhong Yang, Hui Wang (Tsinghua University, China)4. Mining Association Rules for RFID Data with Concept Hierarchy, Younghee Kim, Ungmo Kim, Myungsook Jung (Sungkyunkwan University, Korea), Woojun Kang (Korea Christian University, Korea), Youngju Noh (Chungnam Cheongyang College, Korea)5. Service Discovery in Wireless Sensor Networks: Protocols & Classifications, Saad Ahmed Munir, Xie Dongliang (Beijing University of Posts & Telecommunications, China), Chen Canfeng, Jian Ma (Nokia Research Center, China)	



TECHNICAL SESSIONS

Session 5E: Multimedia and Internet Systems and Services (I) Chair: Kyu Ouk Lee (ETRI, Korea)	Room Topaz II
<ol style="list-style-type: none">1. An Automated Method based on Second Order Moment for Defect Extraction in Photomask Images, Jihee Choi, Sheng Yang, Hong Jeong (POSTECH, Korea)2. 4-views Display System Which Enables to View from Any Direction for Group Work on Life Review Activity, Mitsuru Okumura, Kunio Sakamoto (Konan University, Japan), Shusaku Nomura (Nagaoka University of Technology, Japan), Tetsuya Hiroto, Kuninori Shiwaku, Masahito Hirakawa (Shimane University, Japan)3. The Ontology for a Multi-Sensory Media Service, Seungwon Oh, Minsoo Hahn (Information and Communications University, Korea)4. Improved MB-Layer Rate Control for H.264/AVC, Kan Chang, Aidong Men, Juan Luo (Beijing University of Posts and Telecommunications, China)5. A Method to Reduce the Decoding Complexity of the Binary (89, 45, 17) Quadratic Residue Code, Wen-Ku Su, Pei-Yu Shih, Tsung-Ching Lin, Trieu-Kien Truong (I-Shou University, Taiwan)	
Session 5F: Information Security Technology (I) Chair: Heechang Chung (NIA, Korea)	Room Topaz III
<ol style="list-style-type: none">1. Design of Lock-Keeper Federated Authentication Gateway, Feng Cheng, Christoph Meinel (Hasso Plattner Institute (HPI), University of Potsdam, Germany)2. Method of Countering Unsolicited IP Applications using Lists, So Young Park, Sung Hei Kim, Shin Gak Kang (ETRI, Korea)3. Improving the Security of McEliece-Like Public Key Cryptosystem based on LDPC Codes, Masumeh Koochak Shooshtari, Mahmoud Ahmadian (K. N. Toosi University of Technology, Iran), Ali Payandeh (Malek Ashtar University of Technology, Iran)4. Vulnerability Analysis and Patches Management using Secure Mobile Agents, Pasquale Stirparo (Royal Institute of Technology, Sweden), Muhammad Awais Shibli (Royal Institute of Technology, NUST School of Electrical Engineering and Computer Science, Sweden, Pakistan), Sead Muftic (Royal Institute of Technology, Sweden)5. Detecting VoIP-specific Denial-of-Service using Change-Point Method, Hongli Zhang (Beijing Institute of Technology, Inner Mongolia Normal University, China), Zhimin Gu, Caixia Liu, Tang Jie (Beijing Institute of Technology, China)	
Coffee Break 10:20 ~ 10:40	



TECHNICAL SESSIONS

Session 6 10:40 ~ 12:00	
Session 6A: Wireless Communication Technology (VI) Chair: Sangho Choe (The Catholic University of Korea, Korea)	Room Emerald
<ol style="list-style-type: none">1. Transmitter Design for MISO Downlink with Peak Power Constraint, Ihn-Jung Baik, Sae-Young Chung (KAIST, Korea)2. Optimization of MAPSK, Xudong Chen, Huazhong Yang (Tsinghua University, China)3. Wireless Network Synchronization for Multichannel Multimedia Services, Yonghwan Bang, Jongpil Han, Kyusang Lee (Information and Communications University, Korea), Jongwon Yoon, Jino Jung (Sangmyung University, Korea), Sungbo Yang (Hyundai Motor Co., Korea), June-Koo Kevin Rhee (Information and Communications University, Korea)4. Performance Analysis Of An OFDM Wireless Communication System with Convolutional Coding, Kazi Mostaq Ahmed (Stamford University, Bangladesh), Satya Prasad Majumder (Bangladesh University of Engineering & Technology, Bangladesh), B. K. M. Mizanur Rahman (United International University, Bangladesh)5. A Compact Internal Antenna for Wireless USB Dongle Application, Yeonsik Yu, Youngki Lee, Soonyong Lee, Jaehoon Choi (Hanyang University, Korea)	
Session 6B: Mobile Communications (VI) Chair: Xingzhong Xiong (University of Electronic Science and Technology of China, China)	Room Ruby I
<ol style="list-style-type: none">1. An Approach for Seamless Integration of QoS and Mobility for Wireless Mobile Networks, Osvaldo Gonsa (Panasonic Research Center Germany, Germany), Shintaro Uno (Huawei Technologies Japan, Japan), Moo Wan Kim (Tokyo University of Information Sciences, Japan), Kwangsik Kim (Samsung Telecommunications Japan, Japan)2. Physical Layer Verification for 3GPP LTE (FDD), Sung-Won Kim, Kun-Yong Kim (Agilent Technologies, Korea)3. Design of Messenger Oriented P2P Framework in Mobile Ad-hoc Networks, Qin Jiancheng, Sun Bin (Beijing University of Posts and Telecommunications, China)4. Downlink Time Switched Transmit Diversity System with ARQ Scheme, Cha-Eul Jeon, Ri-A Ma, Jun-Ho Baek, Seung-Hoon Hwang (Dongguk University, Korea)5. The Application of Smart Antennas in TD-SCDMA, Xiangdong Jia (Nanjing University of Posts and Telecommunications, Northwest Normal University), Haiyang Fu, Xiong Liu (Nanjing University of Posts and Telecommunications, China)	



TECHNICAL SESSIONS

Session 6C: Mobile Internet (II) Chair: Sangjin Jeong (ETRI, Korea)	Room Ruby II
<ol style="list-style-type: none">1. Real Time Video Streaming over Heterogeneous Networks, Mohammed A Qadeer, Rehan Ahmad, Mohd Siddique Khan, Tauseef Ahmad (Aligarh Muslim University, India)2. Adoption of IPTV under the Convergence of Broadcasting and Telecommunications, Imsook Ha, Jaeheung Yoo, Junkyun Choi (Information and Communications University, Korea), Sanggug Jong (KT, Korea), Soohyung Kim (Information and Communications University, Korea), Youngmin Chin (KT, Korea)3. A Simple Compensation Algorithm for VoIP Services in IEEE 802.16e System, Hongxia Zhang, Jufeng Dai (Tianjin University, China)4. Network-based Fast Handover for IMS Applications and Services, Sang Tae Kim, Seok Joo Koh (Kyungpook National University, Korea), Kyoung-Hee Lee (ETRI, Korea)5. A Low Complexity Method of Initial Ranging for IEEE 802.16e OFDMA Systems, Yung-Chuan Lin, Szu-Lin Su, Hsin-Chih Wang (National Cheng Kung University, Taiwan)	
Session 6D: RFID & USN Technologies (VI) Chair: Yao-Chung Chang (National Taitung University, Taiwan)	Room Topaz I
<ol style="list-style-type: none">1. Location Aware Public/Personal Diversity of Information Services based on Embedded RFID Platform, Ming-Shen Jian (Shu-Te University, Taiwan), Shu Hui Hsu (International Megatrend Smart Technology Ltd., Taiwan)2. MAC Hurdles in Body Sensor Networks, Sana Ullah, Pervez Khan (Inha University, Korea), Young-Woo Choi, Hyung-Soo Lee (ETRI, Korea), Kyung Sup Kwak (Inha University, Korea)3. An Agent-based Routing Algorithm with Low Overhead for Mobile Sinks in Wireless Sensor Networks, Jae-Wan Kim (SOLiD Technologies, Korea), Doo-Seop Eom (Korea University, Korea)4. A Web Service based Gateway Architecture for Wireless Sensor Networks, Weidong WANG, Yue-Xian ZOU, Guangyi SHI, Yuesheng ZHU (Shenzhen Graduate School of Peking University, China)5. A Reliable Topology for Wireless Sensor Networks, Ali Tufail (Ajou University, Korea), Syed Ali Khayam (NUST, Pakistan), Gargi Bag, Ki-Hyung Kim, Seung-Wha Yoo (Ajou University, Korea), Arshad Ali (NUST, Pakistan)	



TECHNICAL SESSIONS

Session 6E: Multimedia and Internet Systems and Services (II)	Room Topaz II
Chair: Kil Hong Joo (Gyeongin National University of Education, Korea)	
<ol style="list-style-type: none">1. Electronic Invisible Code Displaying System for Group Work on Life Review Activity, Tomofumi Yamanari, Kunio Sakamoto (Konan University, Japan), Shusaku Nomura (Nagaoka University of Technology, Japan), Tetsuya Hiroto, Kuninori Shiwaku, Masahito Hirakawa (Shimane University, Japan)2. Robust Fast Belief Propagation for Real-time Stereo Matching, Intae Na, Junghun Choi, Hong Jeong (POSTECH, Korea)3. Fast Mode Decision for P-Slices in H.264/AVC Based on Probabilistic Learning, Xinxin Zhou, Chun Yuan, Chunhua Li, Yuzhuo Zhong (Tsinghua University, China)4. A Non-Photorealistic Motion Generation System, JiHyung Lee, BonKi Koo (ETRI, Korea), Jung-Ju Choi (Ajou University, Korea), Chi Jung Hwang (Chungnam National University, Korea)5. A Study on Wireless Transmission System for Full-Spec HDTV, Masayuki KUROSAKI, Yuya HIRATA, Masateru MATSUO, Wahyul Amien Syafei, Baiko SAI (Kyushu Institute of Technology, Japan), Yoshimitsu KUROKI (Kurume National College of Technology, Japan), Akio MIYAZAKI (Kyushu Sangyo University, Japan), Hiroshi Ochi (Kyushu Institute of Technology, Japan)	
Session 6F: Information Security Technology (II)	Room Topaz III
Chair: JongHyup Lee (Inje University, Korea)	
<ol style="list-style-type: none">1. Injecting Trust to Cryptographic Key Management, Gökhan Bal (Goethe-University, Germany), Andreas U. Schmidt, Nicolai Kuntze (Fraunhofer Institute for Secure Information Technology, Germany)2. Cryptanalysis And Improvement on Remote User Mutual Authentication Scheme with Smart Card, Razi Arshad, Nassar Ikram (National University of Sciences and Technology, Pakistan)3. P2P Attack Taxonomy and Relationship Analysis, Xiaowen Yue, Xiaofeng Qiu, Yang Ji, Chunhong Zhang (Beijing University of Posts and Telecommunications, China)4. An Improved RC6 Algorithm with the Same Structure of Encryption and Decryption, Gil-Ho Kim, Jong-Nam Kim, Gyeong-Yeon Cho (Pukyong National University, Korea)5. Adaptive Image Watermarking Scheme in Contourlet Transform using Singular Value Decomposition, Shao-min Zhu (China Electric Power Research Institute, China), Jian-ming Liu (State Grid Information & Telecommunication Co., Ltd., China)	



TECHNICAL SESSIONS

Session 6G: Poster Session (III)

Room Diamond I

1. CDMA Coded Power Control over Rayleigh Fading, Sangho Choe (The Catholic University of Korea, Korea)
2. A New Detection Method for MIMO Systems with Differently Modulated Layers, JungHyun KIM, Seungjae Bahng, Youn-Ok PARK (ETRI, Korea)
3. Performance of UAV(Unmanned Aerial Vehicle) Communication System Adapting WiBro with Array Antenna, Pyung-Joo Park, Sung-Min Choi, Dong-Hee Lee, Byung-Seub Lee (Korea Aerospace University, Korea)
4. A CMOS Single Chip Receiver with RF Front-End and Baseband Processor for Band-III T-DMB/DAB Applications, Seong-do Kim (ETRI, Korea), Seung-hyeub Oh (Chungnam National University, Korea)
5. Implementation of Route Optimization Mechanism Supporting IPv4/IPv6 Traversal in Proxy Mobile IPv6, Sangjin Jeong, Myung-Ki Shin, Hyoung-Jun Kim (ETRI, Korea)
6. Referential Software Architecture of Integrated Graphic System for Mobile Handset Devices, Kyung Hee Lee, Sangyoon Lee, Haesook Jun (ETRI, Korea), Kwan-jong Yoo (Chungnam National University, Korea)
7. Design of a Collaborative Filtering System for Classifying Harmful Contents, Wonjae Lee (ETRI, Korea)
8. A Service Availability-aware Construction of Profitable Service Overlay Network, HyunYong Lee, JongWon Kim (GIST, Korea)
9. Interoperability and Anonymity for ID Management Systems, Hosung Jo (Hanyang University, Korea), Hwanjin Lee, Kilsoo Chun (Korea Information Security Agency, Korea), Heejin Park (Hanyang University, Korea)
10. A Study of Management Interface for Cluster System Integrity, Jae Deok Lim, Jeong Nyeo Kim (ETRI, Korea), Choel Hoon Lee (Chungnam National University, Korea)
11. Session Transfer Mechanism Considering Capabilities of Target Access Network, Joo-Chul Lee, Young-Il Choi (ETRI, Korea)
12. A Study on Internet Telephony Service for Enhanced Emergency Services, IlJin Lee, Ok Jo Jeong, Wook Hyun, ShinGak Kang (ETRI, Korea)
13. NAT Traversal for SIP-based Presence Services with Symmetric Dialog Routing, Hyun Wook, Kang Shin-Gak (ETRI, Korea)
14. A Hybrid Hyper Tag Anti-collision Algorithm in RFID System, Tae Hee Kim, Seong Joon Lee (Kyungpook National University, Korea)
15. An Automatic Shot Change Detection Algorithm using Weighting Variance and Histogram Variation, Won-Hee Kim, Kwang-Seok Moon, Jong-Nam Kim (Pukyong National University, Korea)
16. Real-time Camera Tracking for Augmented Reality, Jung-Jae Yu, Jae-Hean Kim, Hye-mi Kim (ETRI, Korea), Il Choi (Uniinfo co., ltd., Korea), Il-Kwon Jeong (ETRI, Korea)
17. An Efficient Remote User Authentication Scheme Secure against the Off-line Password Guessing Attack by Power Analysis, Ji-Hye Park, Ji-Seon Lee, Jik Hyun Chang (Sogang University, Korea)



TECHNICAL SESSIONS

Session 6G: Poster Session (III)

Room Diamond I

18. Personal Information Management using Attribute Provider, Jong-Hyuk Roh, Seung-Hun Jin (ETRI, Korea)
19. Protection of Content Streamed through the Retransmission, Jihyun Park, Kisong Yoon (ETRI, Korea)
20. Call Set-up Time Modeling for SIP-based Stateless and Stateful Calls in Next Generation Networks, Mahmoud Pirhadi (Islamic Azad University, Iran), Seyed Mostafa Safavi Hemami (Amirkabir University of Technology, Iran), Abbas Iravani Tabrizipour (Telecom Infrastructure Co., Iran)
21. PRAM: A Probing Range Adjusting Mechanism in Energy-Efficient and Sensibility-Aware Probing Environment WSNs, Kuan-Rong Lee (Kun Shan University, Taiwan), Po-Cheng Huang, Yau-Hwang Kuo (NCKU University, Taiwan), Ming-Zoo Wu (Institute for Information Industry, Taiwan)
22. Extraction of Key Postures using Shape Contexts, Geum-Boon Lee, Wilfred O. Odoyo, Jeong-Nam Yeom, Beom-Joon Cho (Chosun University, Korea)
23. A Robust Bread Defect Detection and Counting System, Ilkoo Ahn (Information and Communication University, Korea), Michael Moonshin Zo (CasaTech company, Korea), Changick Kim (Information and Communication University, Korea)
24. DWT-based Image Fingerprinting Scheme Resistant against Geometrical Distortion and Lossy Compression, Yong-Seok Seo, Young-Ho Suh (ETRI, Korea), Chi-Jung Hwang (Chungnam National University, Korea)
25. The Concept Of Narrow Sound Channel Using Binary Time Frequency Masking For Speech Recognition Of Intelligent Service Robots, Hyukjoon Jang, Jaiyoun Song, Hong Jeong (POSTECH, Korea)
26. Design of an Internal Planar Monopole Antenna for WUSB Dongle Application, Youngki Lee, Yeonsik Yu, Soonyong Lee, Jaehoon Choi (Hanyang University, Korea)
27. Two-hop Relay Technique using STBC and Simple Coding Algorithm in Wireless Fading Relay Channels, Yoonho Jang, Sangjun Bae (Inha University, Korea), Sunkyung Shin (ETRI, Korea), Kyungsup Kwak (Inha University, Korea)
28. Inter-ACR Fast Handover Mechanism for IPv6 based WiBro System, Min-Sik Shim, Min Kim (Kwangwoon University, Korea), Il-kyeun Ra (University of Colorado Denver, U.S.A.), Dong-wook Kim, Ji-sang Yoo, Hwa-sung Kim (Kwangwoon University, Korea)
29. A Location based Routing Protocol in Mobile Sensor Networks, Kihyun Kim, Jeongbae Yun, Jangkyu Yun, Byeongjik Lee, Kijun Han (Kyungpook National University, Korea)

Lunch 12:00 ~ 13:20



TECHNICAL SESSIONS

Session 7 13:20 ~ 14:40	
Session 7A: Wireless Communication Technology (VII)	Room Emerald
Chair: Leonardo A. Lanante Jr. (Kyushu Institute of Technology, Japan)	
<ol style="list-style-type: none"> 1. Analysis of the Four-horn Monopulse for LEO Satellite Tracking using the Exact Model, Jafar Nateghi, Leila Mohammadi, G.R. Solat (Iran Telecommunication Research Center, Iran) 2. Polynomial Predistortion Technique for PA Non-linearities using IDLA Scheme, Zong Qiang Li (Engineering College of Armed Police Force, China) 3. A Hybrid Carrier Synchronization Scheme for PSK Burst-mode Communication Systems, Seong-Bok Park, Dhong-Woon Jang (Agency for Defense Development, Korea) 4. Multi-Wideband Rectangle-triangle Antenna With a Taper Line for Feeding, Mamdouh Gouda (Misr University for Science & Technology, Egypt), Adel Abdin (Shorouk Academy, Egypt) 5. A Low Complexity Joint Parameter Estimation Scheme for Carrier Frequency Offset and I/Q Imbalance, Leonardo A. Lanante Jr., Ryuta Imashioya, Masayuki Kurosaki, Hiroshi Ochi (Kyushu Institute of Technology, Japan) 	
Session 7B: Mobile Communications (VII)	Room Ruby I
Chair: Cong Hung Tran (Posts and Telecommunications Institute of Technology, Vietnam)	
<ol style="list-style-type: none"> 1. Optimal Fixed-point Design of Traffic Channel for M-WiMAX Mobile Modem ASIC, JongHun Kim, YuPeng Wang, KyungHi Chang (Inha University, Korea), NamHoon Park (ETRI, Korea) 2. The Three-layered Group Key Management Architecture for MANET, Sun Bin, Yu Bin (Beijing University of Posts and Telecommunications, China) 3. Understanding the User Acceptance of Multimedia Messaging Services, Ho Kyoung Shin, Kyung Kyun Kim, Ki Won Lee (Yonsei University, Korea) 4. RAAM: Routing Alogorithm using Ant Agents for MANETs, Ramkumar. K.R, Ravichandran. M, Hemachandar. N, ManojPrasadh. D, GaneshKumar. M (Sri Venkateswara College of Engineering, India) 5. Factors Influencing Adoption of Korean 3G Mobile Services: The Role of Relative Advantages, Facilitating Condition and Adoption Barriers, Moon-Koo Kim, Jong-Hyun Park (ETRI, Korea), Jong-Hyun Paik (TTA, Korea) 	



TECHNICAL SESSIONS

Session 7C: Mobile Internet (III) Chair: Razi Arshad (NUST, Pakistan)	Room Ruby II
<ol style="list-style-type: none">1. An Identification of Correlation between Network QoS and Video Quality Index for IPTV Service, Jaehyung Bae, Hong-Shik Park, Young Min Chin, Han-Choon Park (Information and Communications University, Korea)2. Interconnecting Multi-Vendor Multi-Hop WLAN and Internet via Hotspot, Akihisa Matoba (Hewlett-Packard Japan, Ltd., Japan), Moo Wan Kim (Tokyo University of Information Sciences, Japan)3. A Study on Efficiency Improvement of Doherty Amplifier using LDMOS FET for WiMax Networks, Hyukyong Kwon, Chae up Yoo, Min-su Kim, Younggoo Yang (Sungkyunkwan University, Korea)4. FFRDV: Fastest-Ferry Routing in DTN-enabled Vehicular Ad Hoc Networks, Danlei Yu, Young-Bae Ko (Ajou University, Korea)5. QoS based Provisioning Vertical Handover between IEEE 802.11 and 802.16, Min Jong Kim, Sang Woo Son, Byung Ho Rhee (Hanyang University, Korea)	
Session 7D: Optical Networking Technology (I) Chair: Chiu Yeung Tsang (Hong Kong Polytechnic University, China)	Room Topaz I
<ol style="list-style-type: none">1. Performance Evaluation of Medium Access Control Methods in Light Trail Networks, Yukinobu Fukushima, Kota Tanaka, Tokumi Yokohira (Okayama University, Japan)2. Blind Estimator of Multiple Optical Signals with a Detection Matrix, Anhong Dang (Peking University, China)3. Thermally Stable Polymeric Waveguide using UV-curable Epoxy Resins for Optical Printed-circuit Board, Do-Won Kim (Information and Communications University, Korea), Seung Ho Ahn, In-Kui Cho (ETRI, Korea), Dong-Min Im, Shirazy Md. Shorab Muslim, Hyo-Hoon Park (Information and Communications University, Korea)4. Performance Analysis of an All-optical Wavelength Converter based on Cross-phase Modulation (XPM) in DSF Fiber, Mostafa Jannatul Ferdows (United International University, Bangladesh), S.P. Majumder (Bangladesh University of Engineering & Technology, Bangladesh)5. E/O Module Integrated with Combined Tx/Rx and Mux/Demux for Optical Interconnection, Nga T.H. Nguyen, Trong-Hieu Ngo, Tae-Woo Lee, Hyo-Hoon Park (Information and Communication University, Korea)	



TECHNICAL SESSIONS

Session 7E: Multimedia and Internet Systems and Services (III) Chair: Byungcho Kim (Hankuk University of Foreign Studies, Korea)	Room Topaz II
<ol style="list-style-type: none">1. QoS Scheduling Considering Flow for Assured Service in Diffserv Network, Tadasuke Minagawa, Tetsushi Ikegami (Meiji University, Japan)2. A Multi-Level Metadata Structure for Image Archiving, Hyowon Kim, Yongik Yoon (Sookmyung Women's University, Korea)3. Efficient Improvement for Adaboost based Face Detection System, Pufeng Wu (Xi'an Jiaotong University, China), Hongzhi Liu, Xixin Cao, Jing Liu, Zhonghai Wu (Peking University, China)4. Content-aware and Network-adaptive Video Streaming of a Ubiquitous Middleware, EUN-SEOK RYU, HAE-SUN JUNG (Korea University, Korea), YONG-WOO LEE (University of Seoul, Korea), HYUCK YOO, CHANG-SUNG JEONG, SUNG-WON AHN (Korea University, Korea)5. Decoding Golay Code by Direct Solution of the Error Locator Polynomial, Pei-Yu Shih, Wen-Ku Su, Tsung-Ching Lin, Trieu-Kien Truong (I-Shou University, Taiwan)	
Session 7F: Information Security Technology (III) Chair: Heechang Chung (NIA, Korea)	Room Topaz III
<ol style="list-style-type: none">1. MagicNET: Security Architecture for Creation, Classification, and Validation of Trusted Mobile Agents, Muhammad Awais Shibli (Royal Institute of Technology, NUST School of Electrical Engineering and Computer Science, Sweden), Sead Muftic (Royal Institute of Technology, Sweden)2. Establishment of Cross-layer Trust Model for Ad Hoc Networks, Yuan Bai(Liaoning University of Technology, Beijing University of Posts and Telecommunications, China), Zhongying Bai (Beijing University of Posts and Telecommunications, China)3. A Novel Secure Distributed Disk System, Jie Lin, Yunliang Zhang, Zhiyong Tan, Yiqi Dai (Tsinghua University, China)4. Network Threat Assessment based on Attribute Recognition, Jiaquan Si, Qiang Zhang, Dapeng Man, Kaizhuo Wang, Wu Yang (Harbin Engineering University, China)5. Design and implementation of Vector Quantizer for a 600bps Vocoder Based on MELP, Fateme Khalili, Mehrdad Ardebilipour (K.N.Toosi University of Technology, Iran), Hossein Sameti (Sharif University of Technology, Iran)	
Coffee Break 14:40 ~ 15:00	



TECHNICAL SESSIONS

Session 8 15:00 ~ 16:20	
Session 8A: Wireless Communication Technologies (VIII) Chair: Seokjoo Shin (Chosun University, Korea)	Room Emerald
<ol style="list-style-type: none"> 1. Research on the Number of Independent Beam Produced by a Set of Smart Antennas, Xiangdong Jia (Nanjing University of Posts and Telecommunications, Northwest Normal University, China), Haiyang Fu, Laiqiang Zhao (Nanjing University of Posts and Telecommunications, China) 2. Switched-mode BLAST Technique for MIMO Communications, Mohamed M. A. Moustafa (Akhbar El Yom Academy, Egypt) 3. A Novel Superframe for Cognitive Radio in HR-WPAN, Byunghwa Lee, Jilong Li, Honggil Lee, Ick-Soo Lee, Kijun Han (Kyungpook National University, Korea) 4. System Design and Performance Analysis of Layered MIMO OFDM and MC-CDMA Communication Systems, Sami Ahmed Haider, Khalida Noori (National University of Sciences and Technology, Pakistan) 5. Error Probability Performance for Multi-hop Decode-and-Forward Relaying over Rayleigh Fading Channels, Vo Nguyen Quoc Bao, Hyung Yun Kong (University of Ulsan, Korea) 	
Session 8B: Mobile Communications (VIII) Chair: Ho Kyoung Shin (Yonsei University, Korea)	Room Ruby I
<ol style="list-style-type: none"> 1. Modify AODV for MANET/INTERNET Connection through Multiple Mobile Gateways, YU Bin, SUN Bin (Beijing University of Posts and Telecommunications, China) 2. Cluster Overlay-Dynamic Source Routing: Highly Scalable Routing Protocol, Kwang-Soo Jang, Hyo-Sik Yang (Sejong University, Korea), Jong-Myung Rhee (Myongji University, Korea) 3. Bidirectional Decision Feedback Equalization for CDMA System with Low Spreading Factor, Junhui Zhao (Beijing Jiaotong University, Macau University of Science and Technology, China), Hua Li (Shandong University, China), Dongming Wang (Southeast University, China) 4. High Speed VLC System based on Turbo-Coded OFDM Scheme, Sung Wan Koo, Jae Sung Park, Jin Young Kim (Kwangwoon University, Korea) 5. Effect of Channel Estimation Error on the Performance of Interleave-Division Multiple Access Systems, Xingzhong Xiong (University of Electronic Science and Technology of China, Sichuan University of Science & Engineering, China), Jianhao Hu, Feng Yang, Xiang Ling (University of Electronic Science and Technology of China, China) 	

Session 8C: Mobile Internet (IV)	Room Ruby II
Chair: Razi Arshad (NUST, Pakistan)	
<ol style="list-style-type: none"> 1. A Power Assignment Mechanism for OFDM-based Underwater Acoustic Communication System, Chin-Feng Lin, Zhen-Xiang Shi (National Taiwan-Ocean University, Taiwan), Shung-Hyung Chang (National Kaohsiung Marine University, Taiwan) 2. Analysis of Subscribers' Usages and Attitudes for Video IP Telephony Services over NGN, IIKwon Cho (National Information Society Agency, Korea), Koji OKAMURA (Kyushu University, Japan), MyungWon Song, YoungRo Lee (National Information Society Agency, Korea) 3. The Impact of RTS/CTS Frames on TCP Performance in Mobile Ad hoc-based Wireless LAN, Neeraj Poudyal (Korea Aerospace University, Korea), Ha Cheol Lee (Yuhan University, Korea), Byung Seub Lee (Korea Aerospace University, Korea), Youngjoon Byun, Eric Yiching Tao (California State University, USA) 4. A Routing Metric for Load Balance in Wireless Mesh Networks, Sooyeol Yang, Youngmi Baek, Junhyung Kim, Keuchul Cho, Kijun Han (Kyungpook National University, Korea) 5. Managing Alternative Parent Peers for Providing Fast Reconnection between Peers, Ilhom Karimov, Miradham Kamilov, Eunyong Park, Jungwook Song, Heemin Kim, Sunyoung Han (Konkuk University, Korea) 	
Session 8D: Optical Networking Technology (II)	Room Topaz I
Chair: JongHyup Lee (Inje University, Korea)	
<ol style="list-style-type: none"> 1. Security Evaluation of Optical CDMA System with Statistical Approach, Tomohiro YOKOHAMA, Tetsuo TSUJIOKA (Osaka City University, Japan) 2. Performance Modelling and Evaluation of Optical Packet Switching Network using RT-SPA, Tony Tsang (Hong Kong Polytechnic University, Hong Kong) 3. A 1.2-V 10-Gb/s Highly CPD Isolated and Bandwidth Enhanced Optical Receiver in 0.13-μm CMOS Technology, W. S. Oh, K. Park, K. W. Min, H. S. Son, Y. S. Lee (Korea Electronics Technology Institute, Korea) 4. Optical and Higher Layer Performance Monitoring in Photonic Networks: Progress and Challenges, M. S. Islam (Institute of Information and Communication Technology, Bangladesh), S. P. Majumder (Bangladesh University of Engineering and Technology, Bangladesh) 5. A Novel Technique for Optical Header Multiplexing using Coded Frequency Division Multiplexing in Optical Packet Switching Networks, Md. Dulal Hossain, Jae Jeung Rho, Junghoon Moon (Information and Communications University, Korea) 	



TECHNICAL SESSIONS

Session 8E: Multimedia and Internet Systems, and Services (IV) Chair: Byungcho Kim (Hankuk University of Foreign Studies, Korea)	Room Topaz II
<ol style="list-style-type: none">1. Low Cost Blur Image Detection and Estimation For Mobile Devices, Jaeseung Ko, Changick Kim (Information and Communications University, Korea)2. A Novel Substream Extraction for Scalable Video Coding over P2P Networks, Chunhua Li, Chun Yuan, Yuzhuo Zhong (Tsinghua University, China)3. Activity Replay System using Mixed Reality Technology for Inspection of Ways of Group Work on Reminiscence Therapy, Yuuki Matsumoto, Kunio Sakamoto (Konan University, Japan), Shusaku Nomura (Nagaoka University of Technology, Japan), Tetsuya Hiroto, Kuninori Shiwaku, Masahito Hirakawa (Shimane University, Japan)4. Unsupervised Object of Interest Discovery in Multi-view Video Sequence, Thanaphat Thummanuntawat, Wuttipong Kumwilaisak (King Mongkut's University of Technology, Thailand), Jatuporn Chinrungrueng (National Electronics and Computer Technology, Thailand)5. Modified Decoding of Binary Quadratic Residue Codes by Using Euclidean Algorithm, Pei-Yu Shih, Wen-Ku Su, Tsung-Ching Lin, Trieu-Kien Truong (I-Shou University, Taiwan)	
Session 8F: Information Security Technology (IV) Chair: Chang-Sheng Chen (National Chiao Tung University, Taiwan)	Room Topaz III
<ol style="list-style-type: none">1. A Table-driven Approach for IP Traceback based on Network Statistic Analysis, Wei-Tsung Su (Aletheia University, Taiwan), Yi-Hsun Chuang, Zong-Bing Wu, Yau-Hwang Kuo (National Cheng Kung University, Taiwan)2. Trust-based Anonymity Framework for Wireless Mesh Networks, Muhammad Shoaib Siddiqui, Riaz Ahmed Shaikh, Choong Seon Hong (Kyung Hee University, Korea)3. Digital Video Watermarking in 3-D Ridgelet Domain, H. Khalilian, S. Ghaemmaghami, M. Omidyeganeh (Sharif University of Technology, Iran)4. A Novel Audio Scrambling Algorithm in Variable Dimension Space, Huan. Li (Xi'an Jiaotong University, Dongguan University of Technology, China), Zheng. Qin, Liping. Shao (Xi'an Jiaotong University, China), Bin. Wang (Dongguan University of Technology, China)5. A New Scalar Multiplication Method Suitable For Hyperelliptic Curve Cryptosystems, Chen Xiao-e (Hainan Normal University, China), You Lin (Hangzhou Dianzi University, China)	



TECHNICAL SESSIONS

Session 8G: Poster Session (IV)

Room Diamond I

1. A Design of System Integrating a Personalized Yellow Page Service and a Interactive Video Application Service, Sung Jin Hur, Sung Joo Kang, Wan Choi (ETRI, Korea)
2. Home-to-Home Media Streaming System based on Adaptive FastReplica, Taein Hwang, Hojin Park (ETRI, Korea), Jin Wook Chung (Sungkyunkwan University, Korea)
3. Content-based Video Copy Detection Using Spatio-temporal Compact Feature, Joosub Kim (University of Science and Technology, Korea), Jeho Nam (ETRI, Korea)
4. A Study on Migration Scheme for a Mobile Trusted Module, Dong-Wan Kang (Soonchunhyang University, Korea), Sung-Ik Jun (ETRI, Korea), Im-Yeoung Lee (Soonchunhyang University, Korea)
5. Identity Data Security System for the Digital Identity Wallet, Daeseon Choi, Jonghyuk Roh, Seunghyun Kim, Seunghun Jin (ETRI, Korea)
6. Improved Intermediate Performance of Rateless Codes, Saejoon Kim, Seunghyuk Lee (Sogang University, Korea)
7. Performance of Double-binary Turbo Coded TH-PPM UWB Systems with Multiple Receive Antennas, Jae Sung Park, Jin Young Kim (Kwangwoon University, Korea)
8. Signalling Architecture and Protocols for the Next Generation Network, Hyeong Ho Lee (ETRI, Korea)
9. Adaptive GTS Allocation Scheme to Support QoS and Multiple Devices in 802.15.4, Yong-Geun Hong, Hyoung-Jun Kim (ETRI, Korea), Hee-Dong Park (Korea Nazarene University, Korea), Do-Hyeon Kim (Cheju National University, Korea)
10. Interactive Control Platform for IPTV Service in the IMS Environment, Jinhong Yang, Hyojin Park (Information and Communications University, Korea), Sang Gug Jong, Sang Hong Lee (KT, Korea), Jun Kyun Choi, Soohyung Kim (Information and Communications University, Korea)
11. WDM/TDMA Hybrid-PON : Wx-PON system, Jea-Hoon Yu, Byoung-Whi Kim (ETRI, Korea), Nam Kim (Chungbuk National University, Korea)
12. The Method of Auto Exposure Control for Low-end Digital Camera, SangHyun Park (Sungkyunkwan University, Korea), GyuWon Kim (Samsung Electro-mechanics co., ltd., Korea), JaeWook Jeon (Sungkyunkwan University, Korea)
13. A Case Study of Unknown Attack Detection against Zero-day Worm in the HoneyNet Environment, Ikkyun Kim, Daewon Kim, Byunggoo Kim, Yangseo Choi, Seongyong Yoon, Jintae Oh, Jongsoo Jang (ETRI, Korea)
14. Mobile DRM System based on a Three-step User Authentication Process, Jin-Oh Jeon, Su-Hwan Park, Min-Sup Kang (Anyang University, Korea)
15. Implementation of H.264 Transcoding & Selective Encryption of Bit Stream, Seong-Yeon Lee, Kwang-Seok Moon, Jong-Nam Kim (Pukyong National University, Korea)
16. Inter-Domain Routing based on Link State Information for End-to-End QoS Guarantee, Tae-iL Kim, Hae-Won Jung (ETRI, Korea), Min Young Chung (Sungkyunkwan University, Korea), Seong-IL Jin (Chungnam National University, Korea)



TECHNICAL SESSIONS

Session 8G: Poster Session (III)

Room Diamond I

17. Digital and Modular Design Scheme based on education theory in RPG Learning Game, Shu Hui Hsu (International Megatrend Smart Technology Ltd., Taiwan), Ming-Shen Jian (Shu-Te University, Taiwan)
18. A Case Study of Context-aware Personalized Services on IMPACT Platform: AdsonMap Services, Kisoon Sung, Aekyung Moon, Yongil Choi (ETRI, Korea)
19. Quasi-Orthogonal Space-Time Block Codes based on Single Symbol Decoding for Four Transmit Antennas, Jae-Sun Jeong, Su-Bin Park, Chang-Bum Jo, Eun-Ji Yoo, Youn-Shik Byun (University of Incheon, Korea)
20. Effective Signal Detection using Cooperative Spectrum Sensing in Cognitive Radio Systems, Myung Kie Baek, Jin Young Kim (Kwangwoon University, Korea)
21. An Interconnection Method between Bluetooth Network and P2P Network, Byeong-Thaek Oh, Sang-Bong Lee, Ho-Jin Park (ETRI, South Park)
22. Reactive and Reliable Neighbor Discovery Protocols in Wireless Networks, Woosuk Cha, Pyeong-Soo Mah (ETRI, Korea)
23. Local Customer Internetworking in Passive Optical Networks, JaeGwan Kim, YongJun Seo, YongGyu Lee, YongHyub Won, MinHo Kang (Information and Communications University, Korea)
24. Design of Effective Anti-Malware System for Mobile Industrial Devices based on Windows CE, Sung-Keun Lee, Wook-Jeon Jae (Sungkyunkwan University, Korea)
25. Automatically Learning Robot Domain Ontology from Collective Knowledge for Home Service Robots, Dongyeop Kang, Eugene Seo, Sookyung Kim, Ho-Jin Choi (Information and Communications University, Korea)
26. Fast Handover Scheme using Temporary CoA in Mobile WiMAX Systems, Jeong Sup Lee, Sam Yeul Choi, Young Ik Eom (Sungkyunkwan University, Korea)
27. Symmetry Structured SPN Block Cipher Algorithm, Gil-Ho Kim, Jong-Nam Kim, Gyeong-Yeon Cho (Pukyong National University, Korea)
28. Video Segmentation Algorithm using Threshold and Weighting based on Moving Sliding Window, Won-Hee Kim (PuKyong National University, Korea), Tae-Il Jeong (TongMyong University, Korea), Jong-Nam Kim (PuKyong National University, Korea)
29. A Comparison of Network Neutrality Debates between US and South Korea, Byungcho Kim (Hankuk University of Foreign Studies, Korea)

Coffee Break 16:20 ~ 16:40



TECHNICAL SESSIONS

Session 9 16:40 ~ 18:00	
Session 9A: Wireless Communication Technology (IX)	Room Emerald
Chair: Cong Hung Tran (Posts & Telecommunications Institute of Technology, Vietnam)	
<ol style="list-style-type: none"> 1. Performance of Wireless Optical Communication Systems using DPSK Modulation, Song Gao, Anhong Dang, Hong Guo (Peking University, China) 2. On the Closed-form Ergodic Capacity of MIMO Rayleigh Channels, S. M. Humayun Kabir, Van-Su Pham, Giwan Yoon (Information and Communications University, Korea) 3. Combined Mechanism using both ARQ and Scheduling for Efficient Transmission in OFDMA System, Youngsang Cho, Jitae Shin (Sungkyunkwan University, Korea) 4. On the Use of QC-LDPC Code for Data Transfer using Short and Medium Block Length, Mohammad Rakibul Islam, Jinsang Kim (Kyung Hee University, Korea) 5. Optimizing Spectrum Sensing Parameters for Local and Cooperative Cognitive Radios, Ayman A. El-Saleh (Universiti Kebangsaan Malaysia, Multimedia University, Malaysia), Mahamod Ismail, Mohd Alauddin Mohd Ali (Universiti Kebangsaan Malaysia, Malaysia) 	
Session 9B: Digital Home Technology	Room Ruby I
Chair: Eung-Kyeu Kim (Hanbat National University, Korea)	
<ol style="list-style-type: none"> 1. An Integration Platform for Developing Context-aware Applications based on Context Reasoning and Service Automation Techniques, Po-Cheng Huang, Cheng-Yi Chien (National Cheng Kung University, Taiwan), Kuan-Rong Lee (Kun Shan University, Taiwan), Yau-Hwang Kuo (National Cheng Kung University, Taiwan), Ming-Zoo Wu (Institute for Information Industry, Taiwan) 2. An Implementation of Bluetooth Service Application on the Peer-to-Peer based Virtual Home Platform, Moon-Ok Choi, Shin-Yuk Kang, Il-Woo Lee, Ho-Jin Park (ETRI, Korea) 3. ISS: The Interactive Smart Home Simulator, Tam Van Nguyen, Deokjai Choi (Chonnam National University, Korea) 4. Message Management in Home Networking based on XML, Zhongming Wang (Jiangnan University, China) 5. Heterogeneous Service Location Service Architecture based on OSGi Technology, Min-Xiou Chen (National Dong Hwa University, Taiwan), Tze-Chin Tzeng (ChungHua University, Taiwan) 	



TECHNICAL SESSIONS

Session 9C: Mobile Internet (V) Chair: Razi Arshad (NUST, Pakistan)	Room Ruby II
<ol style="list-style-type: none">1. Enhancing Adaptive Control in VoIP by Characterizing Congestive Packet Loss, Boonchai Ngamwongwattana, Anuwat Sombun (National Electronics and Computer Technology Center, Thailand)2. A Study on Network Media-aware Scheduling for Robust P2P Streaming, Yong-Hyuk Moon, Jae-Hoon Nah (ETRI, Korea), Chan-Hyun Youn (Information and Communications University, Korea)3. Embedded WiMAX-based Vehicular Router for Telematics Computing, Jiann-Liang Chen (National Taiwan University of Science and Technology, Taiwan), Yao-Chung Chang, Yu-Shan Lin (National Taitung University, Taiwan), Hsien-Wen Du (National Dong Hwa University, Taiwan)4. Service Differentiation with the Adjustment of Remaining Backoff Time in IEEE 802.11 Wireless LAN, Ki-tae Hong, Byeong-hee Roh (Ajou University, Korea)5. Mobility Management: A Proactive QoS-Aware Proxy MIP with improved Handover Latency for End-to-End QoS provisioning in a Proxy MIP domain, Brownson Obaridoa Obele, Minhoo Kang (Information and Communications University, Korea)	
Session 9D: Optical Networking Technology (III) Chair: Heechang Chung (NIA, Korea)	Room Topaz I
<ol style="list-style-type: none">1. A New Hybrid Optical Network Design Consisting of Lightpath and Burst Switching, Yeshuang Wang, Sheng Wang, Shizhong Xu, Xiufeng Wu (University of Electronic Science and Technology of China, China)2. Performance Limitations of WDM Optical Transmission System Due to Cross-phase Modulation in Presence of Chromatic Dispersion, M. A. Khayer Azad, M. S. Islam (Bangladesh University of Engineering and Technology, Bangladesh)3. Bidirectional Optical Transceiver with Automatically Directional Controlling Function, Trong-Hieu Ngo, Nga T.H. Nguyen, Tae-Woo Lee, Hyo-Hoon Park (Information and Communications University, Korea)4. Performance Analysis of Successive Interference Cancellation with Modified Quadratic Congruence and Hadamard Codes for Optical CDMA, Tawfig Eltaif (Universiti Kebangsaan Malaysia, Malaysia), Hossam M. H. Shalaby (Alexandria University, Egypt), Sahbudin Shaari (Universiti Kebangsaan Malaysia, Malaysia), Mohammad M. N. Hamarsheh (Arab American University, Palestine)5. Technological Aspects of the Triple Play Service on Fixed Access Networks, A. Nikitin (NW Telecom, Russia), V. Pyattaev (LONIIS, Russia), B. W. Kim (ETRI, Korea)	



TECHNICAL SESSIONS

Session 9E: Multimedia and Internet Systems and Services (V) Chair: Jin Seek Choi (Hanyang University, Korea)	Room Topaz II
<ol style="list-style-type: none">1. Intra-Frame Error Concealment using Pixel Alignment and Directional Interpolation, Adisorn Sirikham (Rajamangala University of Technology Krungthep, Thailand)2. Facial Expression Classification using Eigen-components of Principal expressions, Wilfred Onyango Odoyo, Geum-Boon Lee, Jung-Jin Park, Beom-Joon Cho (Chosun University, Korea)3. Clustering Metadata Servers for Extremely Scalable and Reliable Services, Keun-Tae Park, Myung-Hoon Cha, Young-soo Min, Young-Kyun Kim, Han Namgoong (ETRI, Korea)4. On the Minimum Weights of Binary Extended Quadratic Residue Codes, Wen-Ku Su, Pei-Yu Shih, Tsung-Ching Lin, Trieu-Kien Truong (I-Shou University, Taiwan)5. Automatic Record Generating System for Support of Group Work on Reminiscence Therapy, Tomonori Otsuka, Kunio Sakamoto (Konan University, Japan), Shusaku Nomura (Nagaoka University of Technology, Japan), Tetsuya Hiroto, Kuninori Shiwaku, Masahito Hirakawa (Shimane University, Japan)	
Session 9F: Information Security Technology (V) Chair: Chang-Sheng Chen (National Chiao Tung University, Taiwan)	Room Topaz III
<ol style="list-style-type: none">1. Researches on Secure Proximity Distance Defending Attack of Finger Table based on Chord, Jie Li, Xiaofeng Qiu, Yang Ji, Chunhong Zhang (Beijing University of Posts and Telecommunications, China)2. Improvement to a Semi-fragile Watermarking Scheme against a Proposed Counterfeiting Attack, Hossein Kourkchi, Shahrokh Ghaemmaghami (Sharif University of Technology, Iran)3. A Wavelet-based Blind JPEG Image Steganalysis using Co-occurrence Matrix, Han Zong, Fenlin Liu, Xiangyang Luo (Information Science and Technology Institute, China)4. The Design of an RFID Security Protocol for Saving in DB Transaction Costs, Kwang-Jin Paek, Pyeong Soo Mah, Chang Wook Lee (ETRI, Korea), Ui-Sung Song (Busan National University of Education, Korea)5. Implementation and Optimization of Wavelet Modulation in Additive Gaussian Channels, R. Niazadeh, S. Nassirpour, M.B. Shamsollahi (Sharif University of Technology, Iran)	



TECHNICAL SESSIONS

Day 4 : February 18 (Wednesday)

Session 10 09:00 ~ 10:20

Session 10A: Wireless Communication Technology (X)

Room Emerald

Chair: Kazi Mostaq Ahmed (Stamford University, Bangladesh)

1. Towards Robustness in Multiband/Multiuser IR-UWB: Overcoming Unknown NBI via FEC and Subband Scheduling, Hessam Moussavinik, Sang-Seon Byun (Norwegian University of Science and Technology, Norway), Ilangko Balasingham (Norwegian University of Science and Technology, Rikshospitalet University Hospital, Norway)
2. Analysis of the Conical Tracking Technique in LEO Satellite Stations, Jafar Nateghi, Leila Mohammadi, G.R. Solat (Iran Telecommunication Research Center, Iran)
3. Performance Analysis of UWB Systems with Non-Binary Turbo Code in Multi-User Environments, Eun Cheol Kim, Jin Young Kim (Kwangwoon University, Korea)
4. Quantization Based Fast Equalization In Decision Directed Mode, Abhishek D Joshi, Nam Ik Cho (Seoul National University, Korea)
5. Wireless Mesh Network OAM Architecture, Malaz Kserawi, Sangsu Jung, June-Koo Kevin Rhee (Information and Communications University, Korea)

Session 10B: IT Service Technology (I)

Room Ruby I

Chair: EunYoung Cho (ETRI, Korea)

1. Reliable Multicast Protocol Adopting Hierarchical Tree-based Repair Mechanism, Lakshmi Prasad Saikia (National Institute of Technology-Silchar, India), Kattamanchi Hemachandran (Assam University-Silchar, India)
2. Extraction of Lip Movement Image Signals from Successive Image Frames, Eung-Kyeu Kim (Hanbat National University, Korea), Soo-Jong Lee (ETRI, Korea)
3. New Algorithm for 2D Barcode Detection, Elmoustava Ouldbarikalla (Orange France, France), Wadih Sawaya (TELECOM Lille1, France), Yves Delignon (Institut TELECOM-TELECOM Lille1, France), Bertrand Pladeau (Orange France, France)
4. Spot Detection of Complex Regions by Accumulated Gradient in Two Dimensional Electrophoresis Images, Mi Ae Kim, Young Woo Yoon (Yeungnam University, Korea)
5. A Study of the Adoption of Self-service Technologies by Consumers in Convenience Stores, Dong-Her Shih (National Yunlin University of Science & Technology, Taiwan), I-Ching Chen (National Yunlin University of Science & Technology, ChungChou Institute of Technology, Taiwan), Shueh-Cheng Hu (Providence University, Taiwan)



TECHNICAL SESSIONS

Session 10C: E-Commerce and M-Commerce (I) Chair: M. A. Khayer Azad (Bangladesh University of Engineering and Technology, Bangladesh)	Room Ruby II
<ol style="list-style-type: none">1. Student's Mind-map of using an E-Learning System: an IQA Interview Approach, Su-Sui Lin (National Yunlin University of Science and Technology, Hsiuping Institute of Technology, Taiwan), Kwoting Fang (National Yunlin University of Science and Technology, Taiwan)2. Examining the Usage of Feedback Vibration in Nintendo DS Handheld Game Console, Mohammad Shirali-Shahreza, Sajad Shirali-Shahreza (Sharif University of Technology, Iran)3. A QoS-oriented Management Framework for Reconfigurable Mobile Mashup Services, Huiyang Xu, Meina Song, Xiaoxiang Luo (Beijing University of Posts and Telecommunications, China)4. How Different in Cultural Acceptance of Tutoring Robots Serving Augmented Reality?, Jeonghye Han (Cheongju National University of Education, Korea), Eunja Hyun, MiRyang Kim (SungKyunKwan University, Korea), Hyekyung Cho (Hansung University, Korea), Takayuki Kanda (ATR Intelligent Robotics and Communication Labs, Japan), Tatsuya Nomura (Ryukoku University, Japan)5. A Generic Model for NFC-based Mobile Commerce, Hsu-Chen Cheng (Chinese Culture University, Taiwan), Jen-Wel Chen (National Taiwan University, Taiwan), Tain-Yow Chi (Chinese Culture University, Taiwan), Pin-Hung Chen (National Taiwan University, Taiwan)	
Session 10D: Digital Broadcasting Technology (I) Chair: Jeongju Yoo (ETRI, Korea)	Room Topaz I
<ol style="list-style-type: none">1. A Frequency Offset Estimation Scheme for a T-DMB Software Baseband Receiver, Byungjik Keum, Moohong Lee, Jeong Han Jeong, Kyungsu Ko, Suhyun Cha, Young Serk Shim, Hwang Soo Lee (KAIST, Korea)2. Development of Personalized DMB Services and System, Hyun-Cheol Kim, Han-Kyu Lee, Jin-Woo Hong (ETRI, Korea)3. An Intra Prediction Skip Scheme based on SATD and Motion Vector Magnitude Features in H.264 MPEG-4 Part 10 AVC, Yunsik Jung, Unkyung Pahk, Taeyoung Na, Munchurl Kim (Information and Communications University, Korea)4. Performance Improving Schemes for mmWave WPAN MAC Protocol, S. Mehta, K. S. Kwak (Inha University, Korea)5. Essential of Digital Dividend Review, Kwon, He Sun (Korea Radio Promotion Agency, Korea)	



TECHNICAL SESSIONS

Session 10E: Multimedia and Internet Systems and Services (VI) Chair: Kyu Ouk Lee (ETRI, Korea)	Room Topaz II
<ol style="list-style-type: none"> 1. Secure Overlay Multicast Infrastructure for P2P-based IPTV Service, Hyeokchan Kwon (ETRI, Korea), Sangchoon Kim (Kangwon National University, Korea), Jaehoon Nah (ETRI, Korea) 2. An Automatic Image Browsing Technique for Small Display Users, Muhammad Abul Hasan, Changick Kim (Information and Communications University, Korea) 3. A Bidirectional Haptic Communication Framework and an Authoring Tool for an Instant Messenger, Youngjae Kim (Information and Communications University, Korea), Heesook Shin (ETRI, Korea), Minsoo Hahn (Information and Communications University, Korea) 4. Video Activity Analysis based on 3D Wavelet Statistical Properties, M. Omidyeganeh, S. Ghaemmaghami, H. Khalilain (Sharif University of Technology, Iran) 5. Content-based Image Identification System with Hierarchical Scheme, Jaekyong Jeong (Sungkyunkwan University, Korea), Hyeongyong Jeon, Chijung Hwang (Chungnam National University, Korea), Byeungwoo Jeon (Sungkyunkwan University, Korea) 	
Session 10F: Distributed Computing Technologies (I) Chair: Okgee Min (ETRI, Korea)	Room Topaz III
<ol style="list-style-type: none"> 1. A Super-Metascheduler-based Approach for Integrating Multiple Heterogeneous Grids, Hyung-Jun Choi, Eunsung Kim, Yoonki Lee, Heon Y. Yeom (Seoul National University, Korea), Dukyun Nam, Soonwook Hwang (KISTI, Korea) 2. Achieving Higher Dependability by Integrating Replication with DNS Dispatching in the Web-server Cluster Systems, Mohd Isa Awang, Zarina Mohamad, Ahmad Nazari Mohd Rose, Aznida Hayati Zakaria, Wan Suryani Wan Awang (Universiti Darul Iman Malaysia, Malaysia) 3. Virtual Machine Migration in Self-managing Virtualized Server Environments, Jong-Geun Park, Jin-Mee Kim (ETRI, Korea), Hoon Choi (Chungnam National University, Korea), Young-Choon Woo (ETRI, Korea) 4. On Tackling Free-Riders in P2P Networks, Brownson O. Obele, Augustine I. Ukaegbu, Minhoo Kang (Information and Communications University, Korea) 5. A Grid Portal for Monitoring of the Urban Environment using the MSU, Phil Doo Hong (Seoul Grid Center, Meritz Financing Group, Korea), Yong Woo Lee (Seoul Grid Center, Korea) 	
Coffee Break 10:20 ~ 10:40	



TECHNICAL SESSIONS

Session 11 10:40 ~ 12:00	
Session 11A: Wireless Communication Technology (XI) Chair: M. A. Khayer Azad (Bangladesh University of Engineering and Technology, Bangladesh)	Room Emerald
<ol style="list-style-type: none">1. Agent based Low Loss Low Delay Handover Scheme for SIP Communication – The Case for UDP Traffic, Vu Truong Thanh, Yoshiyori Urano (Waseda University, Japan)2. Ranging Code Collision Probability in OFDMA based BWA Network, Anup Thapa, Subodh Pudasaini, Seokjoo Shin (Chosun University, Korea)3. A Fast Geometric Decoding Algorithm for MIMO Systems, Z. Y. Shao, S. W. Cheung, T. I. Yuk (The University of Hong Kong, Hong Kong)4. The Impact of Antenna Array on Outage Performance of Cooperative Dual Hop Relay Network, Ahasanun Nessa, M Sanaullah Chowdhury, Kyung Sup Kwak (Inha university, Korea)5. An Overview of Medium Access Control Protocols with Multi-antennas for Wireless Ad-hoc Networks, Zhi-Qiang Yao (South China University of Technology, Xiang Tan University, China), Meng-Gang Sheng (Xiang Tan University, China), Jun-Xun Yin (South China University of Technology, China)	
Session 11B: IT Service Technology (II) Chair: Kazi Mostaq Ahmed (Stamford University, Bangladesh)	Room Ruby I
<ol style="list-style-type: none">1. Korean POI Word Segmentation and Tagging for Speech Interface In-vehicle Navigation System, Euisok Chung, JiHyun Wang, Yun-Keun Lee (ETRI, Korea)2. Syntactic and Semantic English-Korean Machine Translation using Ontology, Eugene Seo, Il-Sun Song, Su-Kyung Kim, Ho-Jin Choi (Information and Communications University, Korea)3. A Call Processing Scheme for Number Portability of Wibro-VoIP by using NPSS, Young Sic Jeong, Chang Min Park (ETRI, Korea)4. Banknote and Coin Speaker Device for Blind People, Adisorn Sirikham, Werapon Chiracharit, Kosin Chamnongthai (King Mongkut's University of Technology Thonburi, Thailand)5. Cluster Head Selection for Homogeneous Wireless Sensor Networks, Andrey Koucheryavy (ZNIIS, Russia), Ahmed Salim (Telecommunications University, Russia)	



TECHNICAL SESSIONS

Session 11C: E-Commerce and M-Commerce (II) Chair: Jeongju Yoo (ETRI, Korea)	Room Ruby II
<ol style="list-style-type: none">1. A Model of Emotional Interactions based on Affective Cognitive Algorithm, Dongmei Yu, Jian' an Fang, Yuping Zhou, Peiyong Zhao (Donghua University, China)2. Acceptance Factors of Social Shopping, You Rie Kang, Cheol Park (Korea University, Korea)3. Issues of Interoperability in E-Governance System and its impact in the Developing Countries: A Nepalese Case Study, Manish Pokharel, Jong Sou Park (Korea Aerospace University, Korea)4. Development and Application of an Efficient Ubiquitous Teaching and Learning Model, Kil Hong Joo, Sang Hong Kim (Gyeongin National University of Education, Korea)5. E-Government Challenges in Least Developed Countries (LDCs): A Case of Cambodia, Sinawong Sang, Jeong-Dong Lee, Jongsu Lee (Seoul National University, Korea)	
Session 11D: Digital Broadcasting Technology (II) Chair: EunYoung Cho (ETRI, Korea)	Room Topaz I
<ol style="list-style-type: none">1. Metadata Archiving Function for Personalized DMB System, HeeKyung Lee, Han-Kyu Lee, Jin Woo Hong (ETRI, Korea)2. Reducing Bandwidth Allocation Delay in a DVB-RCS Network using Bayesian Neural Network, Golsa Moayeripour, Amirhossein Aghakhani, Meisam Nesary Moghadam, Hassan Taheri (Amirkabir University of Technology, Iran)3. Implementation of Real Time DMB Encryption on Mobile Environment for Contents Protection, Yong-Jae Jeong, Kwang-Seok Moon, Jong-Nam Kim (Pukyong National University, Korea)4. A Ka Band Multi-satellites Wimax System, Chin-Feng Lin, Shin-Hua Chen, Jin-De Zhu (National Taiwan-Ocean University, Taiwan)5. A Fully Integrated CMOS Low-IF Mobile-TV Tuner for Band-III T-DMB/DAB Applications, Seong-do Kim (ETRI, Korea), Seung-hyeob Oh (Chungnam National University, Korea)	



TECHNICAL SESSIONS

Session 11E: Web Technology Chair: Youngkon Lee (Korea Polytechnic University, Korea)	Room Topaz II
<ol style="list-style-type: none">1. WPCC: A Novel Web Proxy Cache Cluster, Zhaolei Duan, Zhimin Gu, Xiaoguang Ding (Beijing Institute of Technology, China)2. Hierarchical Planning through Operator and World Abstraction using Ontology for Home Service Robots, Dongyeop Kang, Ho-Jin Choi (Information and Communications University, Korea)3. Efficient Mining of Utility-based Web Path Traversal Patterns, Chowdhury Farhan Ahmed, Syed Khairuzzaman Tanbeer, Byeong-Soo Jeong, Young-Koo Lee (Kyung Hee University, Korea)4. An Adaptable Question-answer System using Match of Multi-sphere Knowledge, Su-Kyoung Kim (Information and Communication University, Korea), Ki-Hong Ahn (Hanbat National University, Korea), Ho-Jin Choi (Information and Communication University, Korea)5. Adaptive focused Crawler based on Tunneling and Link Analysis, Xiaoming Zhang, Zhoujun Li, Chaojian Hu (Beihang University, China)	
Session 11F: Distributed Computing Technologies (II) Chair: Okgee Min (ETRI, Korea)	Room Topaz III
<ol style="list-style-type: none">1. Standard-based Virtual Infrastructure Resource Management for Distributed and Heterogeneous Servers, Young-Woo Jung, Jin-Mee Kim, Seung-Jo Bae, Kwang-Won Koh, Young-Chun Woo (ETRI, Korea), Sang-Wook Kim (Kyungpook National University, Korea)2. Research on District Partitioning in P2P Network, Cuibo Yu, Xuerong Gou, Yang Ji (Beijing University of Posts and Telecommunications, China)3. Design of a Hierarchical Global Scale Cluster System, Okgee Min, Hakyoung Kim (ETRI, Korea), Taeck-Geun Kwon (Chungnam National University, Korea)4. Distributed Activity Recognition using Key Sensors, A. M. Jehad Sarkar, Kamrul Hasan, Young-Koo Lee, Sungyoung Lee, Salauddin Muhammad Salim Zahir (Kyung Hee University, Korea)5. Quality-Context based SOA Registry Classification for Quality of Services, Youngkon Lee (Korea Polytechnic University, Korea)	

Session 11G: Poster Session (V)
Room Diamond I

1. Test Method by Each Part for Wireless Transmitter and Receiver System, Seung-Chul Shin, Gwang-Yeol You, Tae-Soon Choi, Si-Hoe Kim (Agilent Technologies, Korea)
2. Two-Step Recommendation based Personalization for Future Services, Aekyung Moon, Hyunghwan Kim, Kisoon Sung, Young-il Choi (ETRI, Korea)
3. Consideration of Supporting the Multimedia Emergency Services in VoIP, Okjo Jeong, Il-Jin Lee, Shin-Gak Kang (ETRI, Korea)
4. Online Shopping Behavior Model : A Literature Review and Proposed Model, Soo Yeon Chung, Cheol Park (Korea University, Korea)
5. A Study on Development of a Framework for Provisioning G4C Services through IPTV, Jaeheung Yoo, Jinhong Yang, Junkyun Choi, Soohyung Kim (Information and Communications University, Korea)
6. Scene Change Detection Algorithm on Specific Movie, Myoung-Beom Chung, Il-Ju Ko (Soongsil University, Korea), Dae-Sik Jang (Kunsan University, Korea)
7. Management of Remote Facilities through a Ubiquitous Grid Middleware, Huck Han, Heonyoung Yeom (Seoul National University, Korea), Haesun Jung (Korea University, Korea), Yongwoo Lee (University of Seoul, Korea), Changsung Jeong (Korea University, Korea), Shingyu Kim, Young-jin Yu (Seoul National University, Korea)
8. Direction of Arrival Estimation using Weighted Subspace Fitting with Unknown Number of Signal Sources, Cheol-Sun Park, Jun-Ho Choi, Jong-Won Yang, Sun-Phil Nah (Agency for Defense Development, Korea)
9. A Simple and Accurate Approximation for the Sum Rate of Zero Forcing Dirty Paper Precoding with Greedy User Selection, Seunghun Jang, Jeong-Wook Seo, Dong Ku Kim (Yonsei University, Korea)
10. Evergreen: A Fault-tolerant Application Streaming Technique, Won-Young Kim (ETRI, Korea), Ji-hoon Choi (UniInfo, Korea), Jeong-Min Shim (TestMidas, Korea), Wan Choi (ETRI, Korea)
11. Multiple Object Tracking for Fall Detection in Real-Time Surveillance System, Young-Sook Lee, HoonJae Lee (Dongseo University, Korea)
12. Artifact-Resistant Design of a Wrist-type Heart Rate Monitoring Device, Chan-kyu Park, Jo-chan Sohn, Jae-hong Kim (ETRI, Korea), Ho-jin Choi (Information and Communications University, Korea)
13. Basic Sequence Search by Hashing Algorithm in DNA Sequence Databases, Sing-Hui Toh, Hoon-Jae Lee, Kyeong-Hoon Do (Dongseo University, Korea)
14. Adaptive Neuro-Fuzzy Interference Cancellation for Ubiquitous Wearable ECG Sensor Node, Alka Gautam, Hoon Jae Lee (Dongseo University, Korea), Wan-Young Chung (Pukyong National University, Korea)
15. Middleware for Ubiquitous Healthcare Information System, Mangal Sain, HoonJae Lee (Dongseo University, Korea), Wan-Young Chung (Pukyong National University, Korea)
16. Performance Analysis of Space Time Block Coded PPM-TH UWB Systems in Indoor Wireless Channels, Eun Cheol Kim, Jin Young Kim (Kwangwoon University, Korea)



Session 11G: Poster Session (V)

Room Diamond I

17. Realization of Grid Mobile Middleware System based on Improved Intelligent Scheduling Algorithm, Seok Young Hong , Dong Ryeol Shin (Sungkyunkwan University, Korea)
18. P2P Based Private Broadcasting DRM System, Jungsoo Lee (ETRI, Korea)
19. Network Protocol between a Virtual Server and Multiple I/O devices in Virtualization System, Joonyoung Jung, Jeunwoo Lee (ETRI, Korea), Daeyoung Kim (Chungnam National University, Korea)
20. Evaluation of Interleaved Source Coding over Memoryless Binary Erasure Channel, Jin Young Lee (ETRI, Korea), Hayder Radha (Michigan State University, USA), Jeong Ju Yoo (ETRI, Korea)



REGISTRATION

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

- **Pre-registration period is from Nov. 30, 2008 to Dec. 31, 2008.**

(But the pre-registration of general participants, who are not main authors or speakers of ICACT2009, is allowed by Jan. 31, 2009.)

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

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

- **You should request the notarized invitation letter at the same process of pre-registration by Dec. 31, 2008 in advance.**

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

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

		Pre-registration Authors : before Dec. 31, 2008 Other Participants : before Jan. 31, 2009	On Site Registration On-site Registration is available for "Participants only"
Non-Member	General	US \$550 / ₩550,000	US \$600 / ₩600,000
	Student	US \$400 / ₩400,000	US \$450 / ₩450,000
Member *	General	US \$500 / ₩500,000	US \$600 / ₩550,000
	Student	US \$350 / ₩350,000	US \$450 / ₩400,000
Proceeding	Each volume	US \$50 / ₩50,000	
	Full set	US \$100 / ₩100,000	
Notarized invitation letter		US \$50 / ₩50,000	

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

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

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

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

Discount may apply for multiple paper registration.



VENUE

Accommodation Fees

- Participants who completed registration and approval will be able to make reservations at a special conference rate.
 - **Standard hotel:** 100,000 Korea Won
(Standard number of person: 2, normal room rate: 240,000~280,000 Korea Won)
 - **Condominium** (66 square meters): 90,000 Korea Won
(Standard number of person: 4, normal room rate: 240,000 Korea Won)
 - **Condominium** (99 square meters): 110,000 Korea Won
(Standard number of person: 5, normal room rate: 360,000 Korea Won)

NOTICE

- The indicated room rate is for one room per one night which contains SURTAX and Service charge.
(Exchange Rate: About 1,400 Korea Won to the US dollar)
- **To foreign participants, special conference rates are applicable for Feb. 15-19, 2009**
(To native participants, reduced room rates are applicable **for Feb. 15-18, 2009**)
- In order to make reservations, please download at <http://icact.org/download/2009/hotel2009.doc> and fill the document of the file ([hotel2009.doc](#)).
- Then e-mail the document to the address below.
E-mail: prmember@bokwang.com
Tel: +82-1577-0069 (For English service, please press number "9")

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

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

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

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

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

Hotel

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

Floor Plan



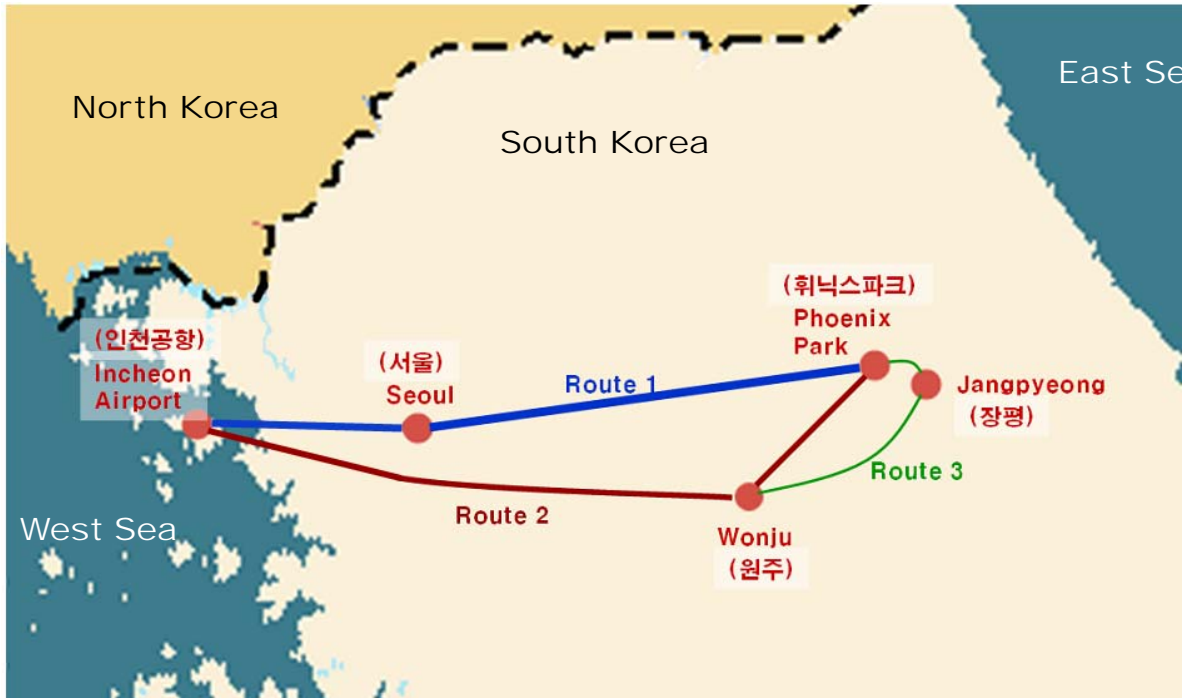
3F

- 1. Topaz
- 2. Opal

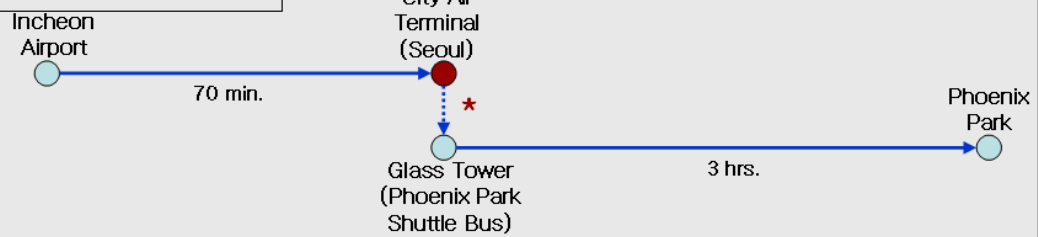


2F

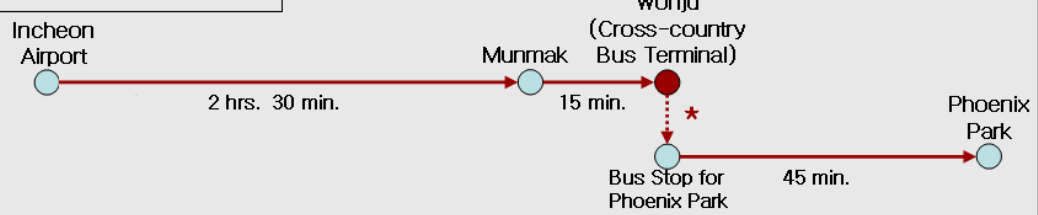
- 1. Phoenix ballroom
- 2. Diamond
- 3. Emerald
- 4. Ruby
- 5. Business center



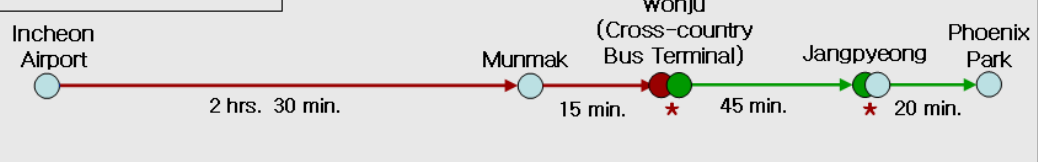
Route 1 : 4hrs 10mins



Route 2 : 3hrs 30mins

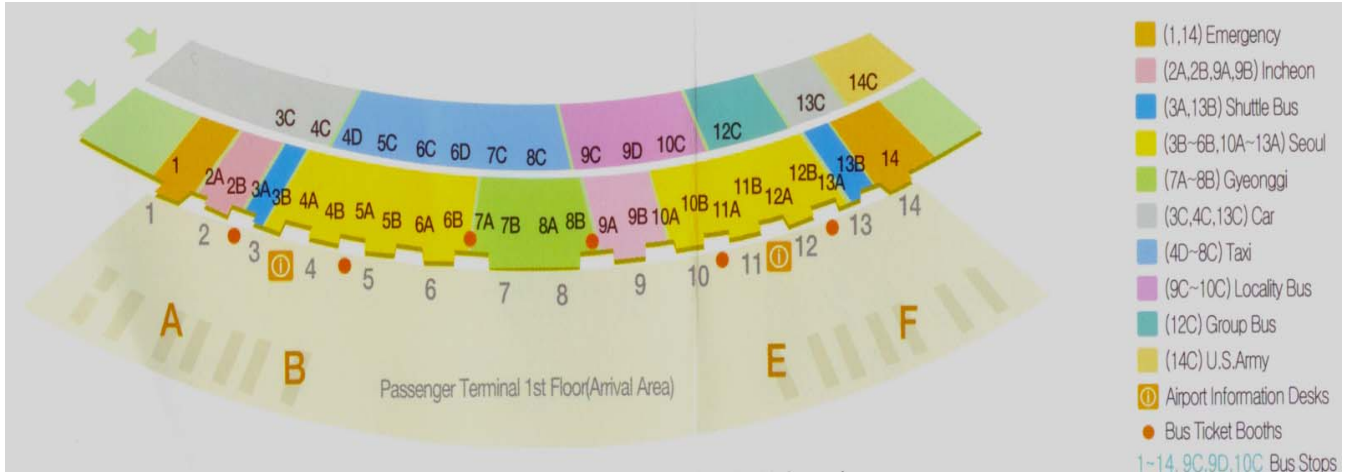


Route 3 : 3hrs 50mins



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

Incheon Airport Arrival Floor



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

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

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

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



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





TRANSPORTATION (by Bus)

Route 1

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

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

Incheon Airport ↔ Seoul (Korea City Air Terminal, Samseong-dong)				
First Bus		Last Bus		Remark
Incheon	Samsung-dong	Incheon	Samsung-dong	Departure Bus Stop : 4A, 10B Travel Time : 65 minutes Departure Time Interval : Every 5 ~ 15 min. One-way Fare : 14,000 won (Round-trip fare : 24,000won)
05:30	05:20	22:30	20:00	
Gimpo Airport ↔ Seoul (Korea City Air Terminal, Samseong-dong)				
First Bus		Last Bus		Remark
Gimpo	Samsung-dong	Gimpo	Samsung-dong	Travel Time : 45 minutes Departure Time Interval : Every 5 ~ 15 min. One-way Fare : 6,500won
07:35	05:30	22:20	20:00	

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

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



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

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

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

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

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



- Phoenix Park Information Office at Glass Tower(B1)



- Gate of the Glass Tower Building



- Exit 4 of the Samseong Subway Station



- Glass Tower Bus Stop for Phoenix Park



Seoul (Glass Tower, Samseong-dong) → Phoenix Park		
Departure Place	Departure Time	Remark
Glass Tower (Samseong Subway Station : Exit 3)	(SUN~TUE, THU) 06:00, 09:30, 14:15, 19:40, 21:35 (WED) 06:00, 09:30, 14:15, 19:40 (FRI~SAT) 06:00, 09:30	One-way Fare : Adult : 15,000 won Children : 13,000 won Round-trip Fare : Adult : 28,000 won Children : 25,000 won

● Phoenix Park Hotel (ICACT 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)	(SUN~WED, FRI) 04:30, 10:00, 13:30, 17:30, 22:00 (THU) 10:00, 13:30, 17:30, 22:00 (SAT) 04:30, 10:00, 13:30, 17:30, 22:00, 24:30	Travel Time: 3 hours

Route 2

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

● Around the outdoor Ticket Counter



● Crosswalk to the Bus Stop for Wonju



● The sign for Cross-country Bus Stop



● Bus Station bound for several provinces



● Bus Stop for Wonju



Incheon Airport ↔ (via Munmak) ↔ Wonju (Cross-Country Bus Terminal)						Remark
Incheon → Wonju			Wonju → Incheon			
Incheon	Munmak	Wonju	Wonju	Munmak	Incheon	
09:10	11:35	11:50	06:00	06:15	08:40	Departure Bus Stop : 9C Travel Time : 3hr (It may take more time by traffic jam according to the bad weather conditions etc.) Departure Time Interval : Every 1 hour One-way fare : 17,400won
10:10	12:35	12:50	07:00	07:15	09:40	
11:10	13:35	13:50	08:00	08:15	10:40	
12:10	14:35	14:50	09:00	09:15	11:40	
13:10	15:35	15:50	10:00	10:15	12:40	
14:10	16:35	16:50	11:00	11:15	13:40	
16:10	18:35	18:50	13:00	13:15	15:40	
17:10	19:35	19:50	14:00	14:15	16:40	
18:10	20:35	20:50	15:00	15:15	17:40	
19:10	21:35	21:50	16:00	16:15	18:40	
20:10	22:35	22:50	17:00	17:15	19:40	
21:10	23:35	23:50	18:00	18:15	20:40	

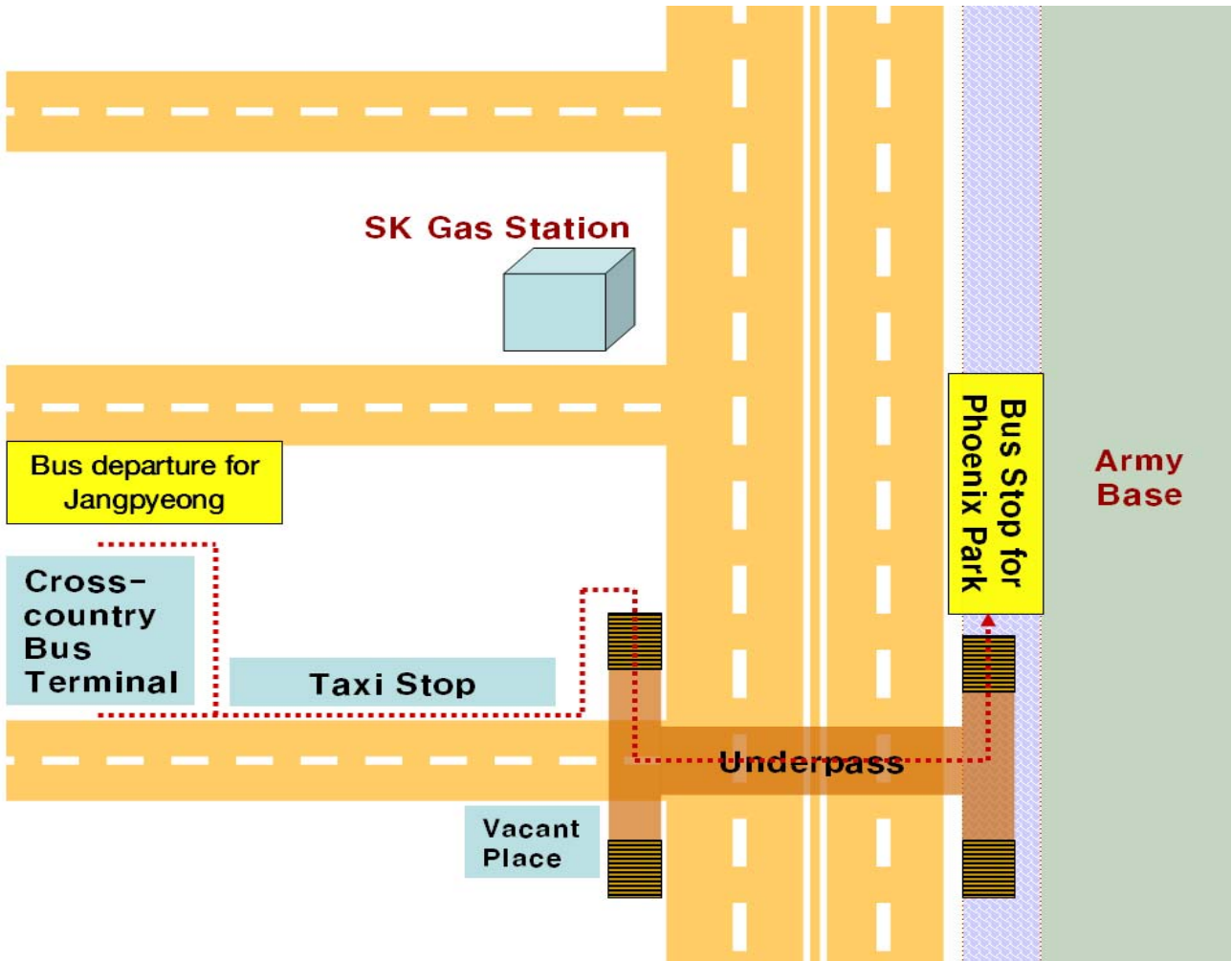
● Bus from Incheon arrived at Wonju Terminal



● Front-side of Wonju Cross-country Bus Terminal

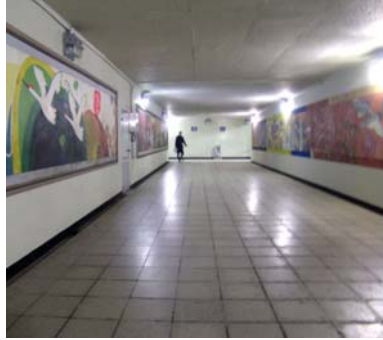


● Map between Wonju Cross-country Bus Terminal and Bus Stop for Phoenix Park around underpass



● Underpass Entrance from Bus Terminal ● Underground Crosswalk

● Bus Stop for Phoenix Park



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

Wonju (Bus Terminal) ↔ Phoenix Park			
Period	Wonju → Phoenix Park	Phoenix Park → Wonju	Remark
FEB.14 ~	07:45	05:00	Travel Time : 45 minutes Free Shuttle : no charge Frequently, departure time of the free shuttle bus for Phoenix Park might be earlier or later than 10 minutes because of the several unavoidable reasons. Thus, you must be at the bus stop at least 15 minutes earlier than the departure time as shown on the left side of this table. This bus stop is not dedicated to the free shuttle bus for Phoenix Park, but it is shared by many kinds of other buses. In order to get on the bus exactly, it might be useful to show the following Korean Sentence.
	08:25	09:10	
	11:25	09:40	
	11:55	12:50	
	15:45	13:20	
	17:35	17:00	
	21:05	22:30	
FEB.15 ~	07:45	09:10	휘닉스파크(Phoenix Park)로 가는 무료셔틀버스를 태워주세요. (Please help me to take the free shuttle bus for Phoenix Park.)
11:25	12:50		
17:35	22:30		

Route 3

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

● Bus Ticket Counter for Jangpyeong (No. 9)



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



(1st transfer)

Wonju (Bus Terminal) ↔ Jangpyeong (Bus Terminal)		
Wonju → Jangpyeong	Jangpyeong → Wonju	Remark
07:00	07:40	Travel Time : 50 minutes
07:50	07:45	
08:00	08:50	One-way fare : 3,700 won
09:15	09:40	
09:50	09:50	Because Jangpyeong is not the final bus stop, you'd better request the bus driver to let you get off at Jangpyeong Bus Terminal. In this case, you can ask for help by showing the following Korean sentence. 장평 (Jangpyeong) 버스정류장에 내려주세요. (Please let me get off at Jangpyeong Bus Terminal.)
10:05	10:50	
11:00	11:00	
11:15	11:10	
11:35	12:20	
11:50	13:20	
12:10	14:35	
12:25	14:40	
13:20	14:50	
13:40	15:45	
14:25	16:00	
15:05	16:20	
15:25	17:00	
16:30	17:30	
16:50	17:55	
17:20	18:30	
18:00	18:45	
18:15	19:45	
18:55	20:30	
19:40		

● Jangpyeong Bus Terminal Building



● Jangpyeong Bus Transfer Terminal



● Free Shuttle Bus for Phoenix Park



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

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

● Phoenix Park Hotel (ICACT 2007 Conference Site)



● Phoenix Park



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

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

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

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

1. VOLTAGE

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



2. WEATHER

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

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

3. 1330 KOREA TRAVEL PHONE

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

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

4. Other Useful Information about Korea

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

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

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

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

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

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



MEMO



MEMO



MEMO

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<http://www.icact.org/>