

# THE 12th INTERNATIONAL CONFERENCE on ADVANCED COMMUNICATION TECHNOLOGY

ICT for Green Growth and Sustainable Development



Phoenix Park, Korea  
Feb. 7-10, 2010

**FINAL  
PROGRAM**

Organizers



Sponsors





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## MESSAGE

### Message from the ICACT2010 General Chair

On behalf of the ICACT2010 Committee, I would like to welcome all of you to ICACT2010. It is a great pleasure to host this 12th International Conference on Advanced Communication Technology (ICACT2010) in Korea.

The ICACT is an IEEE technical co-sponsored annual international conference in the communications field, where all experts from home and abroad gather to present their work, and share new ideas and visions for achieving the future telecommunication age.

The ICACT has been held annually in Korea since February 1999, and this conference, ICACT2010, provides 49 technical sessions including 311 papers from 22 countries, which has grown steadily in the quality and quantity of papers. Since 2004, the IEEE Communications Society and the IEEE Daejeon Section have technically co-sponsored the ICACT in cooperation with the IEEE Region 10. The papers of the ICACT have been published in its Conference Proceedings and INSPEC database. The papers have also been indexed by IEEE, Engineering Information (EI), and Index to Scientific & Technical Proceedings (ISTP).

The theme of ICACT2010 is “ICT for Green Growth and Sustainable Development”. Recently, many countries around the world have been investing in developing and implementing Green ICT as the long-term strategy for national future to achieve the green growth that ensures both environmental protection and economic growth. I expect that the ICACT2010 will play a role in order to make great contribution to greening our ICT world.

I am very certain that ICACT2010 will be of great significance to us all, and I hope you will enjoy both the technical excellence during the sessions and the recreational content at the beautiful landscapes of Phoenix Park.

We look forward to seeing you on February 7-10, 2010 at Phoenix Park, Korea.



ICACT 2010  
Prof. Yong-Jin Park, General Chair



## MESSAGE

### Message from the Organizing and Technical Program Committee Chairs

We would like to welcome to ICACT2010! It is a great pleasure to host this 12th 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. Korean Government has been promoting the ICT convergences of Infrastructure and services for broadcasting and telecommunications, and also has been promoting the R&D activities of green ICT technology for green growth and sustainable development.



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.

Over the past few years, the issue of climate change has become a main item on the global agenda. Global ICT industries are facing new challenges and market opportunities to contribute to global warming by increasing energy efficiency and reducing costs. Hence, we chose the phrase "ICT for Green Growth and Sustainable Development" as the theme of ICACT2010. Under this theme, ICACT2010 consists of a plenary session with two keynote speeches by remarkable world experts, 3 tutorial sessions with 5 interesting subjects, and 49 technical sessions including 5 poster sessions. The TPC carefully selected a limited number of 311 papers from 22 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 broadcasting and telecommunications markets. We believe that ICACT2010 will provide an abundance of intelligent debate and information exchange, and a look at what is new in the field and technology.

We thank 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.

ICACT2010

Dr. Thomas Byeong-Nam Yoon, Organization Committee Chair

Dr. Hyeong-Ho Lee, Technical Program Committee Chair



## OBJECTIVES

International Conference on Advanced Communication Technology (ICACT) 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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Dr. Hyung-Soon Kim, NIA, Korea  
Mr. Yoon-Seok Go, NIA, Korea



## SESSION OVERVIEW

Day 1 : February 7 (Sunday)			
14:30 ~ 18:00	Registration (2 <sup>nd</sup> Floor, Phoenix Park Hotel)		
Room	Emerald	Ruby	Topaz
	Tutorial 1	Tutorial 2	Tutorial 3
15:00 ~ 18:30	Amateur Radio: More than a Hobby!	Service Evolution for Next Generation Network	Technical Evolutions and Challenges with Recent ISO/IEC MPEG and ITU-T VCEG Standardization Efforts toward Next-generation high-performance Video Coding

Day 2 : February 8 (Monday)						
08:30 ~ 18:00	Registration (2 <sup>nd</sup> Floor, Phoenix Park Hotel)					
Room	Ruby I	Ruby II	Topaz I	Topaz II	Diamond I	Emerald
09:00 ~ 10:20	Session 1A Wireless Communication Technology (I)	Session 1B Wireless Sensor Network (I)	Session 1C Next Generation Network Technology (I)	Session 1D Distributed Computing Technologies (I)	-	Tutorial 4
10:20 ~ 10:40	Coffee Break					Femtocell: Business Opportunities and Deployment Challenges
10:40 ~ 12:00	Session 2A Wireless Communication Technology (II)	Session 2B Wireless Sensor Network (II)	Session 2C Next Generation Network Technology (II)	Session 2D Distributed Computing Technologies (II)	Session 2E Poster Session (I)	
12:00 ~ 13:20	Lunch					
13:20 ~ 14:40	Session 3A Wireless Communication Technology (III)	Session 3B Wireless Sensor Network (III)	Session 3C IT Service Technology (I)	Session 3D Digital Broadcasting Technology (I)	-	-
14:40 ~ 15:00	Coffee Break					
15:00 ~ 16:20	Session 4A Wireless Communication Technology (IV)	Session 4B Wireless Sensor Network (IV)	Session 4C IT Service Technology (II)	Session 4D Digital Broadcasting Technology (II)	Session 4E Poster Session (II)	-
16:20 ~ 16:40	Coffee Break					
16:40 ~ 18:00	Plenary Session (Phoenix Ballroom)					
19:00 ~ 20:30	Opening & Banquet (Phoenix Ballroom)					



## SESSION OVERVIEW

Day 3 : February 9 (Tuesday)						
08:30 ~ 18:00	Registration (2 <sup>nd</sup> Floor, Phoenix Park Hotel)					
Room	Ruby I	Ruby II	Topaz I	Topaz II	Diamond I	Emerald
09:00 ~ 10:20	<b>Session 5A</b> Wireless Communication Technology (V)	<b>Session 5B</b> Mobile Communications (I)	<b>Session 5C</b> Systems & Software Engineering (I)	<b>Session 5D</b> Optical Networking Technology	-	<b>Tutorial 5</b>
10:20 ~ 10:40	Coffee Break					Wireless Enhancements of TCP for Network Mobility (NEMO)
10:40 ~ 12:00	<b>Session 6A</b> Wireless Communication Technology (VI)	<b>Session 6B</b> Mobile Communications (II)	<b>Session 6C</b> Systems & Software Engineering (II)	<b>Session 6D</b> Green IT Technology	<b>Session 6E</b> Poster Session (III)	
12:00 ~ 13:20	Lunch					
13:20 ~ 14:40	<b>Session 7A</b> Wireless Communication Technology (VII)	<b>Session 7B</b> Mobile Communications (III)	<b>Session 7C</b> Systems & Software Engineering (III)	<b>Session 7D</b> Network Management, Operation and Maintenance (I)	-	-
14:40 ~ 15:00	Coffee Break					
15:00 ~ 16:20	<b>Session 8A</b> Wireless Communication Technologies (VIII)	<b>Session 8B</b> Ad Hoc Networks (I)	<b>Session 8C</b> Systems & Software Engineering (IV)	<b>Session 8D</b> Network Management, Operation and Maintenance (II)	<b>Session 8E</b> Poster Session (IV)	-
16:20 ~ 16:40	Coffee Break					
16:40 ~ 18:00	<b>Session 9A</b> Wireless Communication Technology (IX)	<b>Session 9B</b> Ad Hoc Networks (II)	<b>Session 9C</b> SOA and Service Science	<b>Session 9D</b> Network Management, Operation and Maintenance (III)	-	-



## SESSION OVERVIEW

Day 4 : February 10 (Wednesday)						
08:30 ~ 12:00	Registration (2 <sup>nd</sup> Floor, Phoenix Park Hotel)					
Room	Ruby I	Ruby II	Topaz I	Topaz II	Diamond I	Emerald
09:00 ~ 10:20	Session 10A  RFID & USN Technologies (I)	Session 10B  e-Commerce and m-Commerce (I)	Session 10C  Information Security Technology (I)	Session 10D  ITS and LBS Technologies	-	-
10:20 ~ 10:40	Coffee Break					
10:40 ~ 12:00	Session 11A  RFID & USN Technologies (II)	Session 11B  e-Commerce and m-Commerce (II)	Session 11C  Information Security Technology (II)	Session 11D  Game and Multimedia Technologies	Session 11E  Poster Session (V)	



## TUTORIAL SESSION

Tutorial Session 15:00 ~ 18:30 Feb. 7 (Sunday)

Tutorial 1 : Amateur Radio: More than a Hobby!

Room Emerald

Speaker : Mr. Miroslav Skoric  
(University of Novi Sad, Serbian)

This tutorial covers the opportunities of implementing amateur radio digital telecommunications in educational and home environment. The intention is to motivate communication researchers & practitioners, teachers and students to develop amateur radio infrastructure in their homes, offices, schoolyards and university campuses and interconnect with other communicators, schools and academic institutions all around the globe – by using free amateur radio frequencies. To offer an alternative and cost-effective option for remote communicators in rural areas and developing countries, the tutorials gives many practical suggestions related to hardware and software solutions for using at work or home



Tutorial 2 : Service evolution for next generation network

Room Ruby

Speaker : Dr. Gyu Myoung Lee  
(Institut Telecom, Telecom SudParis, France)

For operators/providers, there are many activities for developing new services and business model in NGN. So, in this tutorial, current trends of NGN and services in the evolutional aspects are briefly introduced. Based on several requirements to support new services, key architectural models for service in NGN and characteristics are discussed with standardization activities. In particular, new concepts such as NGN-Web convergence, ubiquitous networking(i.e., Internet of Things) are also introduced. Among several examples of services, technical issues for home network and IPTV, networked vehicle, etc are discussed. Finally, the related EU projects for future service evolution are introduced



Tutorial 3 : Technical Evolutions and Challenges with Recent ISO/IEC MPEG and ITU-T VCEG Standardization Efforts toward Next-generation high-performance Video Coding

Room Topaz

Speaker : Prof. Munchurl Kim (KAIST, Korea)

This tutorial introduces recent advances in video coding technologies and related international standardization activities in ISO/IEC MPEG and ITU-T VCEG. The tutorial will cover intra predictive coding, inter predictive coding, transform and quantization, interpolation for motion estimation and post filtering technologies towards next-generation and high-performance video coding with mobile video as well as ultra high definition video.





## TUTORIAL SESSION

Tutorial Session 09:00 ~ 12:00 Feb. 8 (Monday)

Tutorial 4 : Femtocell: Business Opportunities and Deployment Challenges

Room Emerald

Speaker : Dr. Rashid A. Saeed

(Telekom Research and Development, Malaysia)

Femtocell access point (FAP) or home base station (HBS) is a base station designed for use in user premises (home or small business). It intends to serve small number of users i.e. 4 users and covers about 30 meter square similar to existing WiFi access points. The uniqueness of femtocell -in contrast with micro and macrocellular- it connects to cellular network through broadband network i.e. xDSL. The motivation of femtocell is to improve signal quality in indoor environments and provide high speed wireless access mobile-Internet users. However, femtocell introduces new challenges to the mobile operators (MOs) in terms of handoff between femto and macrocells, interference management, localization and synchronization, security and network management. This tutorial intends to give the audience overview and the open research issues of the new technology.



Tutorial Session 09:00 ~ 12:00 Feb. 9 (Tuesday)

Tutorial 5 : Wireless Enhancements of TCP for Network Mobility (NEMO)

Room Emerald

Speaker : Prof. Debashis SAHA

(Indian Institute of Management, India)

TCP is the de facto standard for data transport. Network mobility (NEMO) is a mobility management solution to allow various moving networks (e.g., on-board WiFi networks) to be seamlessly connected to the Internet. Though several enhancements have improved the performance of TCP under wireless mobility, they may not be equally effective in NEMO which poses a separate set of challenges from those offered by terminal mobility alone. We explore the challenges offered by NEMO to TCP's applicability in such networks and discuss the potential solutions (e.g., TCP-Snoop, obTCP etc.) with a comparison of their merits and demerits.





## PLENARY SESSION

Plenary Session 16:40 ~ 18:00 Feb. 8 (Monday)  
Chair : Dr. Hyeong-Ho Lee (ICACT2010 TPC Chair)

Phoenix Ballroom

Keynote Speech 1: Energy and environment R&D toward reducing environmental impact:  
Green R&D Activities in NTT

Speaker : Dr. Morito Matsuoka  
(Executive Director, NTT Energy and Environment Systems Laboratories, Japan)

This year is the beginning of the first commitment period of the 1997 Kyoto Protocol. The ratifying countries including Japan have begun initiatives to achieve their reduction goals. Activity with other efforts to reduce global warming, such as discussion of post-Kyoto protocols like COP15, is also increasing. These reflect the increasing concern for the global environment in society, and the demand for companies to consider environmental issues when managing their operations. Moreover, with developments such as the announcement of the "New Energy Deal" policy in the USA, there is an expectation of new R&D and market expansion opportunities for environment and energy-related technology. In Japan, various other initiatives related to environmental issues are also proceeding, including promotion of the 3Rs (Reduce, Reuse, Recycle) based on the Ministry of the Environment's "Basic Act for Establishing a Sound Material-Cycle Society," established in 2000. In order to solve the current environmental problems, and also to advance the contribution of the NTT Group for reducing environmental impact, we are strongly promoting the energy and environment (Green) R&D. In this presentation, the speaker introduces two perspectives of the relationship between information and communications technology (ICT) and the environment, which we call "Green of ICT" and "Green by ICT". The Green R&D activities developed in NTT are also introduced.



Keynote Speech 2: Green ICT in Korea

Speaker : Dr. Kwangsu KIM  
(Director, Green ICT & Technology Policy Division, KCC, Korea)

Climate change has become a common interest of people around the world. From the early 1990s to the early 2000s, global average temperature rose by 0.74 degrees while average temperature increased 1.7 degrees in Korea. Against this backdrop, the speaker will present about seriousness of climate change and energy crisis in Korea and the Korean government's counter-strategies. The presentation will be followed by the necessity of green ICT and direction of green ICT policies by KCC (Korea Communications Commission) in detail. Korea is an infrastructure powerhouse. Various remote services using the infrastructure such as telecommuting, video conference, remote medical services, and remote education can reduce transportation traffic, ultimately cutting CO2 emissions. In addition, monitoring system of environmental changes and disaster response system can lower economic and social costs incurred by environmental disasters. As for national smart grid initiative as well, broadcasting and communication infrastructure and services are expected to be used actively. The presentation will be wrapped up with positive benefits expected from green ICT policies.





## TECHNICAL SESSIONS

Day 2 : February 8 (Monday)

Session 1 09:00 ~ 10:20

Session 1A: Wireless Communication Technology (I)

Room Ruby I

Chair: Char-Dir Chung (National Taiwan University, Taiwan)

1. Source localization based on SVD without a priori knowledge, Chee-Hyun Park, Kwang-Seok Hong(Sungkyunkwan University, Korea)
2. A Low Complexity Physical-Layer Identity Detection for 3GPP Long Term Evolution, Hendra Setiawan, Hiroshi Ochi(Kyushu Institute of Technology, Japan)
3. Double Binary Turbo Coded Data Transmission for STBC BPAM-DS UWB System, Eun Cheol Kim, Jin Young Kim(Kwangwoon University, Korea)
4. Inter-channel Interference correlation matrix in OFDM system based on GCE-BEM, Tao CHI, Xuebo CHEN , Lidong WANG(University of Science and Technology Liaoning, China), Sizhen FAN(Shenyang University Xinmin Normal College, China)
5. Probability and Receiver List based Multicast Routing in DTNs, Minghui Ma<sup>1</sup>, Chao Li, Yuanda Cao, Zhaoxiang Zhang(Beijing Institute of Technology, China), Xudong An(Telecommunication Metrology Center of MIIT, China)

Session 1B: Wireless Sensor Network (I)

Room Ruby II

Chair: Kijun Han (Kyungpook National University, Korea)

1. Securing Data Aggregation against False Data Injection in Wireless Sensor Networks, Anuparp Boonsongsrikul, Kyung-suk Lhee, ManPyo Hong(Ajou University, Korea)
2. Sensor Networks With Secure Public-Key over GF (2m), Xu Huang(University of Canberra, Australia)
3. A Cluster-based Cooperative Communication Architecture in Mobile Ad-hoc Wireless Sensor, Networks with Rayleigh Fading Environments, Beongku An(Hongik University, Korea)
4. Reliable Routing Algorithm on Wireless Sensor Network, Jun-Jun Liang, Zheng-Wu Yuan(Chongqing University of Posts and Telecommunicatio, China), Jian-Jun Lei, Gu-In Kwon(INHA University, Korea)
5. Fuzzy-based Determination Method for Redistributing Keys in Sensor Networks, Chung Il Sun, Man Ho Han, Tae Ho Cho(Sungkwunkwan University, Korea)



## TECHNICAL SESSIONS

<b>Session 1C: Next Generation Network Technology (I)</b> Chair: Hyong-Soon Kim (National Computerization Agency, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"> <li>1. PR-SCTP for Real Time H.264/AVC Video Streaming, Horacio Sanson, Alvaro Neira, Luis Loyola, Mitsuji Matsumoto(Waseda University, Japan)</li> <li>2. A Study on Any Transport over MPLS (AToM), Tran Cong Hung, Ph.D, Tran Thi Thuy Mai, Eng, Le Quoc Cuong, Ph.D(Post &amp; Telecommunication Institute of Technology, Viet Nam)</li> <li>3. Narrowing the Digital Infrastructure Divide among Cities and Rural Areas, Hyong-Soon Kim(NIA, Korea), Eun-Young Lee(Dongduk Women's University, Korea)</li> <li>4. OSA ParlayX Gateway Architecture for 3rdParty Operators Participation in Next Generation Networks, A.H Darvishan , H.Yeganeh, K.Bamasian, H.Ahmadian(ITRC, Iran)</li> <li>5. Design of IP Sharing Device for Multimedia Streaming using UDP Datagram Switching Mechanism, Jong Wook Nam, Kam Yong Kim, Seong Gon Choi(Chungbuk National University, Korea), Kee Sung Cho, Hwa Suk Kim(ETRI, Korea)</li> </ol>	
<b>Session 1D: Distributed Computing Technologies (I)</b> Chair: Eun-Young Lee (Dongduk Women's University, Korea)	<b>Room Topaz II</b>
<ol style="list-style-type: none"> <li>1. Research of P2P Offline Download based on Hybrid P2P Network, Zhengzhong Lin, Jianfeng Yan, Yoshinori Urano(Waseda University, Japan)</li> <li>2. A Minimum Spanning Tree Algorithm for Efficient P2P Video Streaming System, Khaled Ragab, Asrar Ul Haque(King Faisal University, Saudi Arabia)</li> <li>3. Toward a Cost-effective Cloud Storage Service, Shin-gyu Kim, Hyuck Han, Hyeonsang Eom, Heon Y. Yeom(Seoul National University, Korea)</li> <li>4. Study on Distance Learning Scheme Based upon Peer to Peer(P2P), Cuibo Yu, Xuerong Gou(Beijing University of Posts and Telecommunications, China), Yong Wang(Software Development Center, China)</li> <li>5. Design of Low-Complexity FFT Processor for MIMO-OFDM Based SDR Systems, Gijung Yang, Yunho Jung(Korea Aerospace University, Korea)</li> </ol>	
<b>Coffee Break    10:20 ~ 10:40</b>	



## TECHNICAL SESSIONS

<b>Session 2 10:40 ~ 12:00</b>	
<b>Session 2A: Wireless Communication Technology (II)</b> Chair: Insook Kim (Hanyang University, Korea)	<b>Room Ruby I</b>
<ol style="list-style-type: none"> <li>1. Simple Improvements of Bit-Flipping Decoding, Hiroshi Kamabe, Shusaku Kobota(Gifu University, Japan)</li> <li>2. Group-based Management for Cooperative Spectrum Sensing in Cognitive Radio Networks, Youmin Kim, Wonsop Kim, Hyuckjae Lee(KAIST, Korea), Heung-Ryeol You, Seongchoon Lee(KT, Korea)</li> <li>3. Superposition Coding Relaying with Only Destination-to-Relay Channel State Feedback under Long Term Power Constraint, Xiangdong Jia(Nanjing University of Posts and Telecommunications, China), Longxiang Yang, (Northwest Normal Univ, China)</li> <li>4. A Novel Mobility Model for the Military Operations with Real Traces, Hyun Seo, Sunghun Kim, Joongsoo Ma(KAIST, Korea)</li> <li>5. Low Complexity Algorithm for Frequency Offset and Channel Estimation in MIMO-OFDM Systems, R. Shaghaghi Kandovan(Islamic Azad University Shahre-Rey Branch, Iran), S. Salari, M. Heydarzadeh(K.N.Toosi University of Technology, Iran)</li> </ol>	
<b>Session 2B: Wireless Sensor Network (II)</b> Chair: Kyung-suk Lhee (Ajou University, Korea)	<b>Room Ruby II</b>
<ol style="list-style-type: none"> <li>1. A new key management scheme in heterogeneous wireless sensor networks, Saber Banihashemian, Abbas Ghaemi Bafghi(Ferdowsi University of Mashhad, Iran)</li> <li>2. Key Re-Dissemination for Maintaining Detection Power in Sensor Networks, Jin Myoung Kim, Soo Young Moon, Tae Ho Cho(Sungkyunkwan University, Korea)</li> <li>3. A New Scheme of Key Distribution using Implicit Security in Wireless Sensor Networks, Chien-Wen Chiang, Chih-Chung Lin, Ray-I Chang(National Taiwan) University, Taiwan)</li> <li>4. A QoS-Aware Data Aggregation in Wireless Sensor Networks, Jongsoo Jeong, Jaeseok Kim, Woosuk Cha, Haeyong Kim, Sangcheol Kim, Pyeongsoo Mah(ETRI, Korea)</li> <li>5. A Density and Distance based Cluster Head Selection Algorithm in Sensor Networks, Kyounghwa Lee, Joohyun Lee, Hyeopgeon Lee, Yongtae Shin(Soongsil University, Korea)</li> </ol>	



## TECHNICAL SESSIONS

<b>Session 2C: Next Generation Network Technology (II)</b> Chair: Hyong-Soon Kim (National Computerization Agency, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"><li>1. Broadband PON-wireless Convergence Network based on Network Coding, Dongseok Shin, Seungjin Lee, BokRae Jung, Minho Kang(KAIST, Korea)</li><li>2. Development of a High-speed Transport Protocol with TCP-Reno Friendliness, Junichi MASAKI, Nishantha G.G.D., Yukuo Hayashida(Saga University, Japan)</li><li>3. Performance Analysis of Route Optimization Scheme in Proxy Mobile IPv6, Sangjin Jeong, Myung-Ki Shin, Hyoung-Jun Kim(ETRI, Korea)</li><li>4. QoS-aware Seamless Handover Schemes between Heterogeneous Networks in NGN, Kam Yong Kim, Dong Geun Yun, Seong-Gon Choi(Chungbuk National University, Korea), Jae Chan Shim, Kee Seong Cho(ETRI, Korea)</li><li>5. A Scheme for Supporting Global and Local Mobility Management in NGN, Myoung Ju Yu , Hyun Jong Kim, Won Seok Choi , Seong Gon Choi(Chungbuk National University, Korea)</li></ol>	
<b>Session 2D: Distributed Computing Technologies (II)</b> Chair: Eun-Young Lee (Dongduk Women's University, Korea)	<b>Room Topaz II</b>
<ol style="list-style-type: none"><li>1. Accelerating Motif Finding Problem using Grid Computing with Enhanced Brute Force, H.M. Faheem(Ain shams Univ., Egypt)</li><li>2. The Future Data Center for E-Governance, Sok Chuob, Manish Pokharel, Jong Sou Park(Korea Aerospace University, Korea)</li><li>3. Simple Peer Selection Strategies for Fast and Fair peer-to-Peer File Sharing, Chih-Lin Hu, Yi-Hsun Chang, Da-You Chen, Yu-Wen Chen(National Central University, Taiwan)</li><li>4. Multi-Tenant, Secure, Load Disseminated SaaS Architecture, Zeeshan Pervez, Sungyoung Lee, Young-Koo Lee(Kyung Hee University, Korea)</li><li>5. Content Distribution Technique With in Virtual Organization(vo) Based Peering Content Delivery Network, Tanjil Hossain, Jamil Ahmed Khan, Syed Tanvir Fayeze (IUT, Bangladesh)</li></ol>	



## TECHNICAL SESSIONS

Session 2E: Poster Session (I)

Room Diamond I

1. Effect of Primary Spectrum Availability on Outage Probability of Cognitive Relay Systems in Secondary Spectrum Usage, Eun-Hee Shin, Dongwoo Kim(Hanyang University, Korea)
2. Performance of Double Binary Turbo Coding for Visible Light Communication Systems, Sung Wan Koo, Jin Young Kim(Kwangwoon University, Korea)
3. A Misused Key Detection Mechanism Using the Token in Wireless Sensor Networks, Dong-Min Kang, Min-woo Park, Young-Ju Han, Seon-Ho Park, Tai-Myoung Chung(Sungkyunkwan University, Korea)
4. Implementation and Performance Analysis of AES-128 CBC algorithm in WSNs, Hyeopgeon Lee, Kyoung-hwa Lee, Yongtae Shin(Soongsil University, Korea)
5. Effects on Electrical Filter for 2.5 Gbps WDM-PON based on RSOA Using 100 GHz Spectrum-Sliced Incoherent Light Source, Dong-Min Seol, Eui-Suk Jung, Sang-Soo Lee(ETRI, Korea)
6. Network Virtualization : A Way Forward for Accommodating Multiple, Heterogeneous Architectures in a Single Infrastructure, Myung-Ki Shin, Hyoung-Jun Kim(ETRI, Korea)
7. SLA aware Dynamic Bandwidth Allocation for EPONs, Su-il Choi, Seung Jin Yoo, Jun Beom Cho(Chonnam National University, Korea)
8. An Effective Filtering Method for Skyline Queries in MANETs, Mi-Ra Park, Min-Kee Kim, Jun-Ki Min(KUT, Korea)
9. Online Visualization of Urban Noise in Ubiquitous-city Middleware, Hyun kyu Park, Yong woo Lee, Seo il Jang, Im pyoung Lee(The University of Seoul, Korea)
10. Searching Optimization in P2P Distributed System, Wei Hoo Chong MIET(Motorola Technology, Malaysia)
11. Traffic-aware Decentralized AP Selection for Multi-Rate in WLANs, Jae-wook Jang, Chong-kwon Kim(Seoul National University, Korea), Yeon-sup Lim(Science University of Massachusetts, USA)
12. A MAC scheme for avoiding inter-cluster collisions in wireless sensor networks, In Taek Leem(Deagu Mirae College, Korea), Mary Wu, Chonggun Kim(Yeungnam University, Korea)
13. The MAC for Highly Reliable Packet Transmission with Deterministic Delay, Jungsook Kim, Jungdan Choi(ETRI, Korea)
14. Analyze and Evaluate the performance of SCTP at transport layer, Tran Cong Hung, Tran Phu Khanh, (Post & Telecommunication Institute of Technology, Viet Nam)
15. A Resource Control Mechanism on NGN based Home Network for IPTV Service, Yangjung Kim, Ilyoung Chong(Hankuk University, Korea)
16. Network Initiated Inter UE session transfer control in IMS, Jong-choul Yim, Sang-ki Kim, Byung-sun Lee(ETRI, Korea)

Lunch 12:00 ~ 13:20



## TECHNICAL SESSIONS

<b>Session 3 13:20 ~ 14:40</b>	
<b>Session 3A: Wireless Communication Technology (III)</b> Chair: Takahiro Matsumoto (Yamaguchi University, Japan)	<b>Room Ruby I</b>
<ol style="list-style-type: none"><li>1. Channel Sounding for Multi-Sector Cooperation in OFDM-based Wireless Cellular Systems, Hyung-Sin Kim, Seung-Hwan Lee, Yong-Hwan Lee(Seoul national university, Korea)</li><li>2. Timing Jitter in PAM, ASK, and QAM for a Bandlimiting Scheme, Isamu Wakabayashi(Tokyo University of Science, Japan)</li><li>3. PAPR Reduction of OFDM Signal Using an Efficient SLM Technique, Xiaowen Gu(Huawei Technologies Co., China), Seungmin Baek, Suwon Park(Kwangwoon University, Korea)</li><li>4. Effective Method of Interference Mitigation for UWB Cooperation with WiMAX, Young-Keun Yoon(ETRI, Korea)</li><li>5. Adaptive Spectrally-Precoded OFDM Under Flat Fading, Yan-Ru Peng(Institute for Information Industry, Taiwan), Wei-Lun Lin, Char-Dir Chung(National Taiwan University, Taiwan)</li></ol>	
<b>Session 3B: Wireless Sensor Network (III)</b> Chair: Anuparp Boonsongsrikul (Ajou University, Korea)	<b>Room Ruby II</b>
<ol style="list-style-type: none"><li>1. Fuzzy Efficient MAC length Determination Method for Commutative Cipher Based Filtering, Man Ho Han , Chung Il Sun, Tae Ho Cho(Sungkyunkan University, Korea)</li><li>2. A novel data compression method using improved JPEG-LS in wireless sensor networks, Chih-Chung Lin, Chi-Cheng Chuang, Chien-Wen Chiang, Ray-I Chang(National Taiwan University, Taiwan)</li><li>3. Traffic Control System using Wireless Sensor Network, Muhammad Saqib, Chankil Lee(Hanyang University Erica Campus Ansan, Korea)</li><li>4. Adaptive Routing Protocol for Reliable Wireless Sensor Networking, Jiann-Liang Chen, Yi-Wei Ma, Yu-Ming Hsu, Yueh-Min Huang(National Taiwan University, Taiwan)</li><li>5. The efficient DA placement Method in SLP, Moon TaeKwon, bilal Zafar, Ryu JaeTek, Kim KiHyung, Yoo SeungWha(Ajou University, Korea)</li></ol>	



## TECHNICAL SESSIONS

<b>Session 3C: IT Service Technology (I)</b>	<b>Room Topaz I</b>
Chair: Kyeong Kang (University of Technology Sydney, Australia)	
<ol style="list-style-type: none"> <li>1. A Distributed Multimedia Conferencing Based on SIP, Junchao Li, Xiuwu Zhang(University of Science and Technology of China, China), Ruifeng Guo(Shenyang Institute of Computing Technology, CAS, China)</li> <li>2. Multi-Context-Aware Cache Accelerating Processing on Network Processors for Future Internet Traffic, Airi Akimura, Hiroaki Nishi(Keio University, Japan)</li> <li>3. LTJ adaptive filter with fixed reflection coefficients for speech applications, Jae Ha Yoo(Hankyong National University, Korea)</li> <li>4. Improving the Accuracy of Tagging Recommender System by Using Classification, Jian Song, Liang He, Xin Lin(East China Normal University, China)</li> <li>5. Routing Mechanism for VoIP Emergency Calls in IP Multimedia System, Jin Hyoung Lee, Yoon Bum Huh, Sang Woo Woo, Jin Soo Sohn(KT, Korea)</li> </ol>	
<b>Session 3D: Digital Broadcasting Technology (I)</b>	<b>Room Topaz II</b>
Chair: Jea-Gone Kim (Korea Aerospace University, Korea)	
<ol style="list-style-type: none"> <li>1. OHTV(Open Hybrid TV) Service Platform based on Terrestrial DTV, Dongjun Lee, Mankyu Lee, Daekab Kang(KBS, Korea)</li> <li>2. The Comparison between the TE21 Mode and the Four-Horn Monopulse Technique for LEO Satellite Tracking, Jafar Nateghi, Leila Mohammadi(govermental/ITRC, Iran)</li> <li>3. Interference Impacts of Ultra Wideband Device on Satellite Receiving Station, Simon S.M. Wong, Francis C.M. Lau, Esmond C.M. Mok(Hong Kong Polytechnic University, China)</li> <li>4. The implementation of terminal for a personalized DMB service, Ji Hoon Choi, Han-kyu Lee(ETRI, Korea)</li> <li>5. Video Quality Estimation for Packet Loss Based on No-Reference Method, Junghyun Han, Yo-han Kim, Jangkeun Jeong, Jitae Shin(Sunkyunkwan University, Korea)</li> </ol>	
<b>Coffee Break 14:40 ~ 15:00</b>	



## TECHNICAL SESSIONS

<b>Session 4 15:00 ~ 16:20</b>	
<b>Session 4A: Wireless Communication Technology (IV)</b> Chair: Bhavana Jharia (Jabalpur Engineering College, India)	<b>Room Ruby I</b>
<ol style="list-style-type: none"><li>1. An Efficient Network Merging Mechanism for WiMedia UWB MAC Protocol, Jeongbae Yun, Youngmi Baek, Byunghwa Lee, Jilong Li, Jihun Han , Kijun Han(Kyungpook National University, Korea)</li><li>2. Estimation of Human Movements from Body Acceleration Monitoring for Ubiquitous Health Care, Takaaki Kozaki, Shigeyoshi Nakajima, Tetsuo Tsujioka, Tadayuki Inoue, Shinsuke Hara, Hajime Nakamura, Kazuhide Takeuchi (Osaka City Univ., Japan)</li><li>3. A Cavity Filter Using Stepped Impedance Coupling Resonator, Ji Hoon In, Minsu Kim, Hyungchul Kim, Youngoo Yang(Sungkyunkwan University, Korea)</li><li>4. An Evolutionary Dynamics Game in Cooperative Spectrum Sensing, Li Yan ,Yang Zhen(Nanjing University, China)</li><li>5. A Dual-path On-demand Routing Protocol for Tactical Wireless Networks, Ji Yong Choi, Young-Bae Ko(Ajou University, Korea), Yu-Seon Kim, Jong-Sam Jin(KT Central R&amp;D Laboratory, Korea)</li></ol>	
<b>Session 4B: Wireless Sensor Network (IV)</b> Chair: Luis Loyola (Skillup Japan Corp., Japan)	<b>Room Ruby II</b>
<ol style="list-style-type: none"><li>1. Efficient Indoor Localization and Error Correction Algorithm, Yong-Ki Ku, Choon-Sung Nam, Dong-Ryeol Shin(Sungkyunkwan, Korea)</li><li>2. A study on secure protocol using the Public Key Infrastructure approach in an e-passport, Yong-Sik Choi, Young-Jun Jeon, Sang-Hyun Park(University of Incheon, Korea)</li><li>3. Collision Reduction for Heterogeneous Wireless Sensor Networks, Dongsoo. S. Kim, Sree R. Kanury(Indiana U. Purdue U. Indianapolis, USA)</li><li>4. Location-Based Spiral Clustering for Transmission Scheduling in Wireless Sensor Networks, Young-Uk Yun , Jae-Kark Choi, Nan Hao, Sang-Jo Yoo(Inha University, Korea)</li><li>5. Study on Robustness Middleware using Integrating Sensor Observation Service in Sensor Web Enablement, Woo Suk Ahn, Ki Hyung Kim, Seung Wha Yoo(Ajou univ., Korea)</li></ol>	



## TECHNICAL SESSIONS

<b>Session 4C: IT Service Technology (II)</b> Chair: Chih-Lin Hu (National Central University, Taiwan)	<b>Room Topaz I</b>
<ol style="list-style-type: none"><li>1. A Novel MIMO detection method for Mobile IPTV, Soon Yong Song, Young-il Kim(ETRI, Korea)</li><li>2. A Smart Framework for Web Content and Resources Adaptation in Mobile Devices, Shawkat K. Guirguis, Mohamed A. Hassan (Alexandria University, Egypt)</li><li>3. Method for Distribution, Execution and Management of the Customized Application based on SoftwareVirtualization, Kyong-I Ku, Won-Hyuk Choi, Moonyoung Chung, Kiheon Kim, Won-Young Kim, Sung-Jin Hur(ETRI, Korea)</li><li>4. A GROUPING ALGORITHM of HELPERS in PEER-TO-PEER VIDEO-ON-DEMAND SYSTEMS, Xia Li, Hua Zou, Xinchao Zhao, Fangchun Yang(Beijing University, China)</li><li>5. Seamless Multicast Handover in PMIPv6-based Wireless Networks, Moneeb Gohar, Seok Joo Koh(Kyungpook National University, korea), Tae-Won Um, Hyun-Woo Lee(ETRI, korea)</li></ol>	
<b>Session 4D: Digital Broadcasting Technology (II)</b> Chair: Yongtae Shin (Room 422 Information Science B/D, Korea)	<b>Room Topaz II</b>
<ol style="list-style-type: none"><li>1. OFDM/VSF-CDMA for DVB-H Communications, Mohamed M. A. Moustafa(Akhbar El Yom Academy, Egypt)</li><li>2. An Advanced Hierarchical Modulation with Rotated Constellation, Soonki Jo, Jinyong Choi, Jongsoo Seo(Yonsei University, Korea)</li><li>3. 3DTV System for HFC Network, Woongshik You, O-Hyung Kwon(ETRI, Korea), Oh-Seok Kwon(Chungnam National University, Korea)</li><li>4. Noise Speech wavelet analyzing in special time ranges, Amin Daneshmand Malayeri(Malayer Azad University, Iran)</li><li>5. An Alternative Carrier Frequency Synchronization Scheme for DVB-S2 Systems, Jong Gyu Oh, Joon Tae Kim(Konkuk Univ., Korea)</li></ol>	



## TECHNICAL SESSIONS

Session 4E: Poster Session (II)

Room Diamond I

1. On the Selection of Training Sequence Code Pair for MIMO Technology in 3GPP GERAN System, Jae-Hyuk Lee, Jun-Ho Baek, Seung-Hoon Hwang(Dongguk university, Korea), Byoung-Jo Choi(University of Incheon, Korea)
2. Distributed Spectrum Sensing and Access with Secondary Channel Quality in Cognitive Radio Network, Insook Kim and Dongwoo Kim(Hanyang Uninersity, Korea)
3. Hop by Hop On Demand Path Selection Method for Sensor Networks, Soo Young Moon, Tae Ho Cho(Sungkyunkwan University, Korea)
4. Location Based Multi-Queue Scheduler in Wireless Sensor Network, Eun-Mook Lee, Ali Kashif, Dong-Hyun Lee, In-Tae Kim, Myong-Soon Park(Korea University, Korea)
5. A Dynamic Downloadable Service Discovery System compatible with the DVB-SI based EPG Applications, Bong-Jin Oh, Yu-Seok Bae, Kyeong-Deok Moon(ETRI, Korea), Kwan-Jong Yoo(Chungnam National University, Korea)
6. Utilization Plans for Ka band Satellite Communications System using COMS, Kyung Soo Choi, Jin Ho Jo, Moon Hee You, Seong Pal Lee(ETRI, Korea)
7. Adaptive FEC Error Control Scheme for Wireless video Transmission, Yakubu S. Baguda, Norsheila Fisal, Sharifah H. Syed, Liza A. Latiff, Sharifah K. Yusof, Rozeha Rashid, Dahiru Sani(University of Technology, Malaysia)
8. Extraction of channel parameter on the office in LOS indoor building environment, Young-Keun Yoon, Myoung-Won Jung, JongHo Kim(ETRI, Korea)
9. A study on sensor nodes attestation protocol in a Wireless Sensor Network, Yong-Sik Choi, Young-Jun Jeon, Sang-Hyun Park(University of Incheon, Korea)
10. FEED: Fault Tolerant, Energy Efficient, Distributed Clustering for WSN, Mohammad Mehrani, Seyed Javad Mirabedini(Islamic Azad University, Iran), Chris Manford, Abdolhossein Sarrafzadeh(UNITEC, New Zealand), Jamshid Shanbehzadeh(Tarbiat Moallem University, Iran)
11. The Design of the Packaging Contents Authoring and Consuming System for IPTV Application Service, Kwang-Yong Kim, Jeong-Ju Yoo, Won Lyu(ETRI, Korea), Young-Il Lee, Hoe-Kyung Jung, (Pai Chai University, Korea)
12. A hybrid approach to broadcasting method in Near Video on Demand service for bandwidth-restricted clients, Hyo Geun Kwak (UST, Korea), Jeong Ju Yoo, Jin Woo Hong(ETRI, Korea)
13. Interference analysis between DTV system and 802.22 WRAN, Jae Hyuck Choi, Jin Young Kim(Kwangwoon University, Korea)
14. An Evaluation of Semantic Service Discovery of a U-city Middlewar, Chng Ho Yun, Yong Woo Lee(The University of Seoul, Korea), Hae Sun Jung(The University of Seoul, Korea)



## TECHNICAL SESSIONS

Session 4E: Poster Session (II)	Room Diamond I
15. A Scalable Architecture for Massive Multi-player Online Games Using Peer-to-Peer Overlay, Jia Luo, Huiyou Chang(Sun Yat-sen University, China)	
16. U-City Portal for Smart Ubiquitous Middleware, Yong woo Lee, Seung woo Rho(The University of Seoul, Korea)	
<b>Coffee Break 16:20 ~ 16:40</b>	
<b>Plenary Session 16:40 ~ 18:00</b> Chair: Hyeong-Ho Lee (ICACT2010 TPC Chair)	Phoenix Ballroom
1. Energy and environment R&D toward reducing environmental impact: Green R&D Activities in NTT, Dr. Morito Matsuoka (Executive Director, NTT Energy and Environment Systems Laboratories, Japan)	
2. Green ICT in Korea, Dr. Kwangsu KIM(Director, Green ICT & Technology Policy Division, Korea Communications Commission, Korea)	
<b>Opening Ceremony and Banquet 19:00 ~ 20:30</b> Welcome Address: Prof. Yong-Jin Park (ICACT2010 General Chair)	Phoenix Ballroom



## TECHNICAL SESSIONS

Day 3 : February 9 (Tuesday)

Session 5 09:00 ~ 10:20

Session 5A: Wireless Communication Technology (V)

Room Ruby I

Chair: HyeongHo Lee (ETRI, Korea)

1. BER Performance of M-ary/ASK-SS System Using Compact Matched Filter Bank for Optical ZCZ Code, Takahiro Matsumoto, Shinya Matsufuji(Yamaguchi University, Japan)
2. Statistical Analysis of Modulation Selection Strategies in Cognitive Radios, S. M. Hosseini(Islamic Azad University, Iran), M. Teimouri(Faculty of science, Iran)
3. Suppressed Inter-cell Asynchronous Interference By Delay-tolerance SLNR Precoding, Pinlian Zheng , Xianzhong Xie , Gang Qu(Chongqing University of Posts and Telecommunications, China)
4. An Automated Planning Model for RoF Heterogeneous Wireless Networks, Ahmed Sherif Shawky, Hans Rune Bergheim, Olafur Petur Ragnarsson, Tahir M. Riaz, Jens Myrup Pedersen(Aalborg University, Denmark)
5. Novel Signaling Scheme for 1x CDMA-based Femtocell Networks, Kuen-Chool Yoo, Tae-Jin Lee(SungKyunKwan University, Korea)

Session 5B: Mobile Communications (I)

Room Ruby II

Chair: YoonSuk Ko (NIA, Korea)

1. Energy-Efficient Adaptive Interface Activation for Delay/Disruption Tolerant Networks, Haruki Izumikawa, Andreas Timm-Giel, Carsten Bormann(Universität Bremen, TZI, Germany), Mikko Pitkänen, (Helsinki Institute of Physics), Jörg Ott(Helsinki University of Technology, Finland)
2. A Predictive Scheduling Algorithm for the Uplink Traffic in IEEE 802.16 Networks, Marcio A. Teixeira(Federal Institute of Education, Science and Techno, Brazil), Paulo R. Guardieiro(Federal University of Uberlândia, Brazil)
3. Design for the Asymmetric Turbo Codes, Hanxin Wang, Shaoping Chen, Chengyi Xiong, Cuitao Zhu(South-Central University for Nationalities, China)
4. Successive Data Schism and Interpolation for Channel Estimation in OFDM using Wavelet Denoising, Ahmed N. H. Alnuaimy, Mahamod Ismail, Mohd A. M. Ali(Universiti Kebangsaan Malaysia, Malaysia)
5. New Timing Metric for the Frame Synchronization in WiMAX OFDMA Applications, Amin Azari, Said Nader Esfahani(University of Tehran, Iran), Meisam Naderi(Shahed University, Iran)



## TECHNICAL SESSIONS

<b>Session 5C: Systems &amp; Software Engineering (I)</b> Chair: Jeong-Ju Yoo (ETRI, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"> <li>1. Fast Mounting Method for NAND Flash Memory File System using Offset Information, Chan-Sul Park, Tae Hee Han(Sungkyunkwan univ., Korea)</li> <li>2. A Low-Cost Runtime-Privilege Changing System for Shared Servers, Daisuke Hara, Yasuichi Nakayama(The University of Electro-Communications, Japan)</li> <li>3. A Multi-view API Impact Analysis for Open SPL Platform, Eunyoung Kim, Hoh Peter In(Korea University, Korea), Kangtae Kim(Samsung Electronics, Korea)</li> <li>4. Study and Implementation of User Behaviour Analysis, Jingling Zhao, Xia Wang, Yue Zhou(Beijing University, China)</li> <li>5. Adaptation of Scalable Video Coding to Packet Loss and its Performance Analysis, Euy-Doc Jang, Jae-Gon Kim(Korea Aerospace University, Korea), Truong Cong Thang, Jung Won Kang(ETRI, Korea)</li> </ol>	
<b>Session 5D: Optical Networking Technology</b> Chair: Min-Ho Kang (KAIST, Korea)	<b>Topaz II</b>
<ol style="list-style-type: none"> <li>1. Performance Analysis of LDPC codes Over WS-EWC coded Optical CDMA Networks, Chun-Ming Huang, Jen-Fa Huang(National Cheng Kung University, Taiwan), Chao-Chin Yang(Kun Shan University, Taiwan)</li> <li>2. Minimizing the Effect of Cross Phase Modulation in WDM Optical Transmission System, Kazi Abu Taher, S. P. Majumder(Bangladesh University, Bangladesh)</li> <li>3. Autonomous Client Discovery in Backbone Edge Bridges for Multipoint PBB-TE Networks, Wonkyoung Lee, Daeup Kim, Ho Young Song(ETRI, Korea)</li> <li>4. Adaptive Proportional Distribution Scheme in the OBS Network, Zhang Yaoqiang, Ning Fan, Gao Zehua(BUPT, China), Qian Yiou(Dalian University, China)</li> <li>5. Design and Implementation of an Optoelectronics Chipset for Automotive Wired Network, Won-Seok Oh, Kang-Yeob Park(Korea Electronics Technology Institute, Korea)</li> </ol>	
<b>Coffee Break    10:20 ~ 10:40</b>	



## TECHNICAL SESSIONS

<b>Session 6 10:40 ~ 12:00</b>	
<b>Session 6A: Wireless Communication Technology (VI)</b> Chair: Bhavana Jharia (Jabalpur Engineering College, India)	<b>Room Ruby I</b>
<ol style="list-style-type: none"> <li>1. A Mobile VoIP Architecture over LTE &amp; WLAN networks, Jinho Hwang, Nakpo Kim, Yungha Ji, Jongseog Koh(KT, Korea)</li> <li>2. Wireless PtP System in E-band for Gigabit Ethernet, Min-soo Kang, Bong-Su Kim, Kwang-Seon Kim, Woo-Jin Byun, Myung-Sun Song(ETRI, Korea), Seung-Hyeub Oh(Chungnam National Univ, Korea)</li> <li>3. Analyzing Effect of Loss Differentiation Algorithms on Improving TCP Performance, Mi-Young Park, Sang-Hwa Chung(Pusan National University, Korea)</li> <li>4. Performance of Multicarrier CDMA with Dual Spreading in Nakagami-m Frequency Offset Fading Channels, E. Gemeay, M. Nasr(Tanta universty, Egypt), M. Khedr(Arab Academy for Science and Tech, Egypt), S. El-noubi(Alexandria University, Egypt)</li> <li>5. A List-Based Medium Access Control Algorithm in IEEE 802.11 Wireless Mesh Networks, Moo-Yeong Jeong, Bum-Gon Choi, Ju Yong Lee, Min Young Chung(Sungkyunkwan University, Korea)</li> </ol>	
<b>Session 6B: Mobile Communications (II)</b> Chair: JinDam Mok (ETRI, Korea)	<b>Room Ruby II</b>
<ol style="list-style-type: none"> <li>1. FPGA Implementation of Digital Up/Down Convertor for WCDMA System, Saad Mahboob(Simon Fraser University, Canada)</li> <li>2. Performance Evaluation of Exclusive Handover Message TCP in Mobile IP Based Networks During Handover, Padma Bonde, Bhavana Jharia(Jabalpur Engineering College, INDIA), A. K. Shrivastav (Government of Madhya Pradesh, INDIA)</li> <li>3. Timing and Frequency Synchronization for OFDMA/TDD Mode in Downlink of IEEE 802.16-2004 in AWGN Channel, Meisam Naderi, Hamidreza Bakhshi(Shahed University, Iran)</li> <li>4. End-to-End QoS Manegement Mechanism for Mobile Network, KwangSik Kim, Shobhansingh khadka, Moo Wan Kim(Tokyo University University of Information Sciences, Japan), Shintaro Uno(Kanazawa Institute of Technology, Japan)</li> <li>5. A DFT-Based Channel Estimation Scheme for IEEE 802.16e OFDMA Systems, Szu-Lin Su, Yung-Chuan Lin, Chieh-Chih Hsu(National Cheng Kung University, Taiwan), Gene C.H. Chuang (Industrial Technology Research Institute, Taiwan)</li> </ol>	



## TECHNICAL SESSIONS

<b>Session 6C: Systems &amp; Software Engineering (II)</b> Chair: Manish Pokharel (Korea Aerospace University, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"><li>1. Monitoring Methodology using Aspect Oriented Programming in Functional based System, Giljong Yoo, Eunseok Lee(Sungkyunkwan University, Korea)</li><li>2. Assuring Software Security Against Buffer OverflowAttacks in Embedded Software evelopment Life Cycle, Chul Su Park, Jae Hee Lee, Seong Chae Seo, Byung Ki Kim(Chonnam National University, Korea)</li><li>3. Mobile Component Runtime Environment for Mobile Devices, Minhong Yun, Seokjin Yoon, Sunja Kim(ETRI, Korea)</li><li>4. Study on Application of .NET Reflection inAutomated Testing, RuiZhen ZHOU, ZuKuan WEI(University of Electronic Science and Technology of China, China), ShuGuang TANG(Sichuan WHAYER Information Industry CO., China), Jae-Hong KIM(YoungDong University, Korea)</li><li>5. Estimating Frame Algorithm and System Architecturefor LED Screen, In-Sung Lee, Seunghwa Lee, Dong-Ryeol Shin(SungKyunKwan University, Korea)</li></ol>	
<b>Session 6D: Green IT Technology</b> Chair: YoonSuk Ko (NIA, Korea)	<b>Room Topaz II</b>
<ol style="list-style-type: none"><li>1. DVB Network Optimisation for Energy Efficiency, George Koutitas(International Hellenic University, Greece)</li><li>2. Remote Protocol in Home Virtualization System, Joonyoung Jung, Jeonwoo Lee(ETRI, Korea), Daeyoung Kim(Chungnam National University, Korea)</li><li>3. A novel approach for trade-off between computation and communication cost in wireless sensor networks, Narges Arastouie, Masoud Sabaei, Hosseinali Shirali Shahreza(Amirkabir University, Iran)</li><li>4. A 4-CH 10-Gb/s CMOS VCSEL Driver Array with Adaptive Optical Power Control, Won-Seok Oh, Kang-Yeob Park, Seonyoung Lee(Korea Electronics Technology Insitute, Korea)</li><li>5. Energy Efficient Clustering Communication Protocol for Wireless Sensor Network, Chi-Chou Kao(National University of Tainan, Taiwan), Jun Wu, Shih-Chieh Chen(National Pingtung Institute of Commerce, Taiwan)</li></ol>	



## TECHNICAL SESSIONS

Session 6E: Poster Session (III)

Room Diamond I

1. LMS Adaptive Receiver for Uplink Space-Time Coded MC-CDMA Systems, Bangwon Seo, Jae Young Ahn(ETRI, Korea)
2. A Routing Metric Based on Available Bandwidth in Wireless Mesh Networks, Junhyung Kim, Jangkyu Yun, Mahnsuk Yoon, Keuchul Cho, Honggil Lee, Kijun Han(Kyungpook National University, Korea)
3. Mobile Multicast Mechanism based MIH for Efficient Network Resource Usage in Heterogeneous Networks, In-Seop Jang, Won-Tae Kim, Jae-Man Park, Yong-Jin Park(Hanyang Univ., Korea)
4. Novel FMC network composition methods in 3W (WiBro, WiFi and WCDMA) environments, Jeong-Je Cho, Jin-Ho Hwang, Nak-Po Kim(KT, Korea)
5. Frequency Offset Cancellation in OFDM Systems Using Special  $(1 - D - D^2)$  Correlative Codes, Mohamed E. Khedr, Nour El-Din El-Madany, Amr E. Rizk(Arab Academy for science and Technology, Alexandria, Egypt)
6. A Formal Representation of Discrete Event Models in Ptolemy II, Hae Young Lee, Won-Tae Kim, In-Geol Chun, Woochul Kang, Seung-Min Park(ETRI, Korea)
7. Performance Limitations of a Subcarrier Multiplexed Optical Fiber Link Impaired by Optical Bit Interference and Intensity Noise, Mohammad Monzur Alam, Kazi Mostaq Ahmed, B.K.M. Mizanur Rahman, S.P. Majumder(United International University, Bangladesh)
8. Applying an Effective Model for VNPT CDN, Nguyen Quy Sy(PTIT, Vietnam, )
9. Polarization Properties of Photonic Crystal Fibers Considering Thermal and External Stress Effects, Md. Afzal Hossain(Military Institute of Science and Technology, Bangladesh), M. Shah Alam (Bangladesh University of Engineering and Technology, Bangladesh)
10. Dynamic Bandwidth Allocation Method for High Link Utilization to Support NSR ONUs in GPON, Hakjeon Bang(GIST, Korea), Sungchang Kim, Dong-Soo Lee, Chang-Soo Park(ETRI, Korea)
11. Indoor Experiment of BER Performance of Optical CDMA System Using Optical ZCZ Code, Takahiro Matsumoto, Yu Suwaki, Shinya Matsufuji(Yamaguchi University, Japan)
12. Implementation of Overlay Ring Structure Configured as a Service in P2P Network, Yu-Doo Kim, Il-Young Moon(Korea University of Technology and Education, Korea)
13. Comparison of Smart Grid with Cognitive Radio: Solutions to Spectrum Scarcity, N. Ghasemi, S. M. Hosseini(Islamic Azad University of Aliabad Katoul, Iran)
14. Handover in UMTS Networks with Hybrid Access Femtocells, Jin-Seok Kim, Tae-Jin Lee(Sungkyunkwan University, Korea)



## TECHNICAL SESSIONS

Session 6E: Poster Session (III)

Room Diamond I

15. Proposed Triple correlation receiver for CDMA, Mamdouh Gouda(Misr University for Science and Technology, Egypt)
16. A Stage Model of Open Source Activities: An Exploratory Analysis on Open Source Repository, Toshihiko Yamakami(ACCESS, Japan)
17. Performance Evaluation of a Cooperative MAC Protocol at Ad Hoc Networks, Jaeshin Jang(Inje University, Korea), Duk Hee Yoon, Sang Wu Kim(Iowa State University, USA)
18. Design and Implementation of Semantic Translation Engine In Ubiquitous Computing Environment, Hyun Jeong Lee, Jung-Sik Sung, Youngsik Chung, Euihyun Paik(ETRI, Korea)
19. A study on the application lifecycle management over SOA based application hosting platform, Ki-Sook Chung, SangKi Kim(ETRI, Korea)
20. The Simulation Model of Multicast and Broadcast Service in the Mobile WiMAX (IEEE802.16e) for Qualnet, Khishigjargal Gonchigsumlaa, Young Il Kim(ETRI, Korea)

Lunch 12:00 ~ 13:20



## TECHNICAL SESSIONS

<b>Session 7 13:20 ~ 14:40</b>	
<b>Session 7A: Wireless Communication Technology (VII)</b> Chair: Masato Saito (Nara Institute of Science and Technology, Japan)	<b>Room Ruby I</b>
<ol style="list-style-type: none"><li>1. A Design of Next Generation Gigabit MIMO Wireless LAN System, Wahyul Amien SYAFEI(Diponegoro University, Indonesia), Yuhei NAGAO, Masayuki KUROSAKI, Baiko SAI, Hiroshi OCHI(Kyushu Institute of Technology, Japan)</li><li>2. Comparative Analysis of Piecewise-Polynomial of Local Bases, Olim Hidayov, Ikechi Augustine Ukaegbu, Sang-Gug Lee(KAIST, Korea), Hakimjon Zaynidinov(Dongseo University, Korea)</li><li>3. A Robust PN Length Estimation in Down link Low- SNR DS-CDMA Multipath Channels, Farid Samsami Khodadad, Fatemeh Ganji(Sharif University of Technology, Iran), Amin Safaei, Farshid Samsami Khodadad(International Campus of Sharif University of Technology, Iran)</li><li>4. Radio Resource Allocation for OFDMA Cognitive Cooperative System, Zahra.Golrezaei-KHuzani, Merhdat Ardebilipour(K.N.Toosi University of Technology, Iran)</li><li>5. The Way towards Amplifier Design Using CAD (ADS) Tool, Zeeshan kaleem, Chan kil lee, Muhammad Saqib, Sheikh Mohsin, Farrukh Salim(Hanyang university, Korea)</li></ol>	
<b>Session 7B: Mobile Communications (III)</b> Chair: Dongsoo Kim (IUPUI, USA)	<b>Room Ruby II</b>
<ol style="list-style-type: none"><li>1. Mobile TCP socket for secure applications, Vu Truong Thanh, Yoshiyori Urano(Waseda University, Japan)</li><li>2. Network Coding-Based Relay for IEEE 802.16j Multi-hop Relay Network, Adisak Sukul, Pattarasinee Bhattarakosol(Chulalongkorn University, Thailand), J. Morris Chang(Iowa State University, USA)</li><li>3. An Efficient Transmission Scheme for Short Message Service in IEEE 802.16 Systems, Sung-Min Oh, Jae-Hyun Kim(Ajou University, Korea)</li><li>4. Adjustable Subcarrier Allocation for Spectral Efficiency and User Fairness in 3GPP LTE Downlink Systems, Taeyoung Lee, Jangkeun Jeong, Jisun Yoon, Jitae Shin(Sungkyunkwan Univ., Korea)</li><li>5. Review on Mobility Management for Future-IP based Next Generation Wireless Networks, Ibrahim Al-Surmi, Mohamed Othman, Borhanuddin M. Ali(University Putra Malaysia, Malaysia)</li></ol>	



## TECHNICAL SESSIONS

<b>Session 7C: Systems &amp; Software Engineering (III)</b> Chair: Heechang Jung (NIA, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"><li>1. Mobile Virtual Storage using iATA Protocol with Disk Image Based Loop Device, Hee-Yuan Tan, Bee-Lie Chai, Hyotaek Lim, Hoon-Jae Lee(Dongseo University, Korea)</li><li>2. Formal Analysis of STM Design with SAL Infinite Bounded Model Checker, Weiqiang Kong, Tomohiro Shiraishi, Yuki Mizushima, Noriyuki Katahira(Fukuoka IST, Japan), Akira Fukuda(Kyushu University, Japan), Masahiko Watanabe(CATS Co., Ltd., Japan)</li><li>3. Autonomic Computing Technologies for Cyber-Physical Systems, Ingeol Chun, Wontae Kim, Wochun Kang, Haeyoung Lee, Seungmin Park(ETRI, Korea), Jeongmin Park(Dongyang Technical College, Korea)</li><li>4. Performance Models Oriented to the Dynamic Resource Provisioning in Shared Data Centres, Wang Xiu-wen, Qu Hai-ping (Chinese Academy of Sciences, China), Xu Lu, Han Xiao-ming, Zhang Jian-gang(Graduate University of the Chinese Academy of Sciences, China)</li><li>5. Huffman User Interface for Full Touch Screen Based Mobile Phones, Jae Gon Kim, Jun-Dong Cho(SungKyunKwan University, Korea)</li></ol>	
<b>Session 7D: Network Management, Operation and Maintenance (I)</b> Chair: HyeongHo Lee (ETRI, Korea)	<b>Room Topaz II</b>
<ol style="list-style-type: none"><li>1. A Framework for Tunneled Traffic Analysis, Taner Yildirim, PJ Radcliffe(RMIT UNIVERSITY, Australia)</li><li>2. Implementation of QoS Control System with QoE Parameters on Multimedia Services, Hyun Jong Kim, Seong Gon Choi(Chungbuk National University, Korea), Byung Kyu Kim, Hyun Ho Choi(National Information society Agency, Korea)</li><li>3. Load Balancing in Grid Networks, Jacob Honor'e Broberg, Kartheepan Balachandran, Søren Hede, Jesper Pedersen, M. Tahir Riaz, Jens Myrup Pedersen(Aalborg University, Denmark)</li><li>4. Interference Management in LTE Femtocell Systems Using Fractional Frequency Reuse, Poongup Lee, Taeyoung Lee, Jangkeun Jeong, Jitae Shin(Sungkyunkwan University, Korea)</li><li>5. Statistical Analysis of Network Traffic Inter-arrival, Arup Bhattacharjee(National Institute of Technology, India), Sukumar Nandi(Indian Institute of Technology, India)</li></ol>	
<b>Coffee Break 14:40 ~ 15:00</b>	



## TECHNICAL SESSIONS

<b>Session 8 15:00 ~ 16:20</b>	
<b>Session 8A: Wireless Communication Technologies (VIII)</b> Chair: Mi-Young Park (Pusan National University, Korea)	<b>Room Ruby I</b>
<ol style="list-style-type: none"> <li>1. Area Spectrum Efficiency of TV White Space Wireless System with Transmit Power Control, Sang Yun Lee, Sung Hee An, Yang Moon Yoon(KORPA, Korea)</li> <li>2. Experimental Study of 802.11n Network, Chun Yeow Yeoh(Telekom Research &amp; Development Sdn. Bhd., Malaysia)</li> <li>3. Performance of Primary User Detection Based on FFT for DTV Signals, Seung Jong Kim, Eun Cheol Kim, Jae Sung Park, Jin Young Kim(Kwangwoon University, Korea), Jong Sik Lee, Young Cheol Oh(KT Central R&amp;D Laboratory, Korea)</li> <li>4. A non location aware version of modified LEACH algorithm based on Residual Energy and Number of Neighbors, Fatemeh Ayughi(Islamic Azad University, Iran), Karim Faez(Amirkabir university of Tehran, Iran), Zahra Eskandari(Ferdowsi University of Mashhad, Iran)</li> <li>5. A Unified Framework for the Joint Optimal Allocation of Subchannel and Power in Multi-hop Relay Network, Seunghun Jang, Dong Ku Kim(Yonsei university, Korea)</li> </ol>	
<b>Session 8B: Ad Hoc Networks (I)</b> Chair: Zheng-Ping Li (North China University of Technology, China)	<b>Room Ruby II</b>
<ol style="list-style-type: none"> <li>1. The Controversy of Selfish Nodes in Ad Hoc Networks, C.K. Toh(University of Hong Kong, China), Dongkyun Kim, Sutaek Oh, Hongseok Yoo(Kyungpook National University, Korea)</li> <li>2. Optimized Use of Battery Power in Wireless Ad hoc Networks, Praveen Gupta(PITM, India), Preeti Saxena, A.K. Ramani, Rajkamal Mittal(DAVV, India)</li> <li>3. DFLLS: A New Distributed and Fault Tolerant Location Service Method for Mobile Ad hoc Networks, Nader Ebrahimpour(Islamic Azad University Bonab Branch, Iran), Masoud Sabaei (Industrial Amir Kabir University, Iran), Manouchehr Zadahmad Jaafarloo(Islamic Azad University Ilkhchi Branch, Iran)</li> <li>4. Analysis of TCP-Reno and TCP-Vegas over AOMDV Routing Protocol for Mobile Ad Hoc Network, Mazliza Othman, May Zin Oo(University of Malaya, Malaysia)</li> <li>5. Multi-layer Cooperative Transmission Protocol with VMISO and Power Control in Ad Hoc Network, Xibiao Cai(Key Laboratory of Universal Wireless Communication, China), Yan Yang(Benbu College Bengbu City, China), Fanglin Niu(Liaoning University of Technology, China)</li> </ol>	



## TECHNICAL SESSIONS

<b>Session 8C: Systems &amp; Software Engineering (IV)</b> Chair: Byeong Nam Yoon(NIA, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"><li>1. Empirical Study on Enhancing the Accuracy of Software Cost Estimation Model for Defense software Development Project Applications, Taeho Lee, Donoh Choi (ADD , Korea), Jongmoon Baik(KAIST, Korea)</li><li>2. Arithmetic Operations Based on Imitation of Handwriting Calculation, Hsin-Kun Lai(Chin Min Institute of Technology, Taiwan)</li><li>3. The Method for Verifying Software Architecture with FSP Model, Kim, Jungho(SK&amp;C, Korea)</li><li>4. User Preference Retrieval using Semantic Categorization for Web Search, Teerakorn Bounoy, Aranya Walairacht(King Mongkut's Institute of Technology Ladkrabang, Thailand)</li><li>5. JGroovy – an Extensible Java Programming Language with Groovy, Siwadol Sateanpattanakul, Aranya Walairacht(King Mongkut's Institute of Technology, Thailand)</li></ol>	
<b>Session 8D: Network Management, Operation and Maintenance (II)</b> Chair: Hyeong Ho Lee(ETRI, Korea)	<b>Room Topaz II</b>
<ol style="list-style-type: none"><li>1. Volunteer-Based Distributed Traffic Data Collection System, Kartheepan Balachandran, Jacob Honore Broberg, Kasper Revsbech, Jens Myrup Pedersen(Aalborg University, Denmark)</li><li>2. Traffic Quality Monitoring System between Different Network Providers, Hyun Jong Kim, Seong Gon Choi(Chungbuk National University, Korea) ○</li><li>3. A Fuzzy-Based Power-Aware Routing Algorithm for Network on Chip, Nastaran Salehi(Islamic Azad University, Iran), Arash Dana(Iran Telecommunication Research Center, Iran)</li><li>4. Trend Analysis of Science and Technology R&amp;D Networks, Sung-Uk Park(KISTI, Korea), Shinji Shimojo(NICT, Japan)</li><li>5. Differentiated Service Survivability in WDM Backbone Networks, Chen-Shie Ho(Oriental Institute of Technology, Taiwan), Chang Woei(Vanung University, Taiwan)</li></ol>	



## TECHNICAL SESSIONS

Session 8E: Poster Session (IV)

Room Diamond I

1. Analysis of frequency sharing between mobile systems and radiolocation radars in VHF band, Nam-Ho Jeong, Joo-Hwan Lee(ETRI, Korea), Kyoung-Whoan Suh(Kangnam University, Korea)
2. Winner-Hopf Interpolation Aided Kalman Filter-Based Channel Estimation for MB-OFDM UWB Systems in Time Varying Dispersive Fading Channel, S. M. Riazul Islam, Kyung Sup Kwak(Inha University, Korea)
3. A Compensation Mechanism for Bandwidth Allocation In IP Wireless Networks, Hoang Dang Hai, Pham Van Thuong(PTIT, Viet Nam)
4. An Efficient Timing and Frequency Synchronization Algorithm for OFDMA/TDD Mode in Downlink of IEEE 802.16-2004, Meisam Naderi, Hamidreza Bakhshi, Soroush Akhlaghi, Mehrdad Manaffar (Shahed University, Iran)
5. Low Complexity Downlink Channel Estimation for LTE Systems, Md. Masud Rana, Jinsang Kim, Won-Kyung Cho(Kyung Hee University, Korea)
6. Video Session Handoff between WLAN, Claudio de Castro Monteiro(IFTO, Brazil), Paulo Roberto de Lira Gondim(UnB, Brazil), Vinicius de Miranda Rios(UNITINS, Brazil), Alex Coelho, Stéphaney Moraes, Martins(FACTO, Brazil)
7. Prediction-based Clustering Algorithm for Mobile Wireless Sensor Networks, Andrey Koucheryavy(Central Science Research Telecommunication Institute, Russia), Ahmed Salim(Telecommunications University, Russia)
8. Software development environment design in Robot device operation based on IEC61131-3, Soon-Bum kwon, Hee-Yeon Cho, Dong-Ryeol Shin(Sungkyunkwan univ, Korea)
9. Novel UMTS Core Network Architectures to Support Pre-standardized Services, Chong-youn Choe, Nak-po Kim, Jong-seog Koh(KT, Korea)
10. Minimizing Hamming Weight Based on 1's Complement of Binary Numbers Over GF(2<sup>m</sup>), Xu Huang, Pritam Gajkumar Shah, Dharmendra Sharma(University of Canberra, Australia)
11. OLSR Protocol having a link reliability list in the MPR, Sehyun cho(UST\_ETRI(University of Science & Technology, Korea), Heasook Park(ETRI(Electronics and Telecommunication Research Institute, Korea)
12. The characteristics of millimeter-wave propagation for NLOS in indoor, Jong Ho Kim, Myoung-won Jung, Young Keun Yoon(ETRI, Korea)
13. An Out-band Control Mechanism for Ad hoc Networks Routings, Chen Ni, Shinheon Kim, GeunDeok Kim, Chonggun Kim(Yeungnam University, Korea)
14. Utilizing Remote Storage through USB over IP on SoD System Environment, Kyuchang Kang, Jeunwoo Lee(ETRI, Korea), Jinho Yoo(Baekseok University, Korea)



## TECHNICAL SESSIONS

Session 8E: Poster Session (IV)

Room Diamond I

15. Design of Fault Tolerant System based on Runtime Behavior Tracing, Sumin Park(University of Science of Technology(UST , Korea), Kwangyong Lee(ETRI, Korea)
16. Mathematical Analysis of Primary Users Characteristics Effects on Cognitive Radios, S. M. Hosseini(Islamic Azad University of Aliabad Katoul, Iran), M. Teimouri(Faculty member of Gonbad Higher Education Center, Iran)
17. QMIP: Query-based Mobile IP for Performance Enhancement, Soon Hong Kwon, Jae Wan Park, Seok Joo Koh, Hee Young Jung(Kyoung-buk National University, Korea)
18. The Impact of IMT System on ATSC System, Heon-Jin Hong(ETRI, Korea), Dong-Chul Park (Chungnam National University, Korea)
19. An Intelligent Destination Initiated Reservation Protocol for Wavelength Management in WDM Optical Networks, Debashis Saha(IIM , Joka)
20. Mobile IPTV Performance Enhancement based on WiBro MMR Technology, Young-il Kim, Gonchigsumlaa Khishigjargal, Soon Young Song, Yong Su Lee, Park Dae Geun, Chun Sun Sim, Park Young Soo, Cheol-Hye Cho, Won Ryu(ETRI, Korea), Seong Young Seo, Suk Chan Kim(Pusan University, Korea)

Coffee Break 16:20 ~ 16:40



## TECHNICAL SESSIONS

<b>Session 9 16:40 ~ 18:00</b>	
<b>Session 9A: Wireless Communication Technology (IX)</b>	<b>Room Ruby I</b>
Chair: Wahyul Amien Syafei (Kyushu Institute of Technology, Japan)	
<ol style="list-style-type: none"> <li>1. A CMOS Baseband Receiver for Wireless Broadband Communications, Seunghyun Jang, Seung-Sik Lee, Sang-Sung Choi, Kwang-Chun Lee(ETRI, Korea)</li> <li>2. Performances Comparison among Smart Antenna RAKE Receiver and the other Applicable RAKE Receivers, Haiyang Fu, Xiong Liu, Wenfei Ruan, Xiangdong Jia(Nanjing University of Posts and Telecommunications, China)</li> <li>3. A Novel BEM- Based Channel Estimation Algorithm for Time Variant Uplink OFDMA System, Fatemeh Ganji, Farid Samsami Khodadad(Malek Ashtar University, Iran), Vahid Tabatabavakili(Iran Science and Technology University, Iran), Makan Hosseinezhad(Azad University (South Tehran Branch , Iran), Amin Safaei(International Campus of Sharif University of Technology, Iran)</li> <li>4. The Adaptive Seamless Service Mechanism Design for Scalable Video Coding Extension of H.264/AVC Video Stream over IEEE 802.16e Network, Jiun-Yu Tu, Jung-Shyr Wu, Chih-Sheng Wang(National Central University, Taiwan), Chiung-Fang Hsu(Industrial Technology Research Institute, Taiwan)</li> <li>5. Analysis of ASTC in a Correlated Rayleigh Fading Channel with Imperfect Channel estimation, Ahmed BANNOUR, Ridha BOUALLEGUE,(National Engineering School of Tunis, Tunisia), Mohamed Lassaad AMMARI(National Engineering School of Tunis, Tunisia)</li> </ol>	
<b>Session 9B: Ad Hoc Networks (II)</b>	<b>Room Ruby II</b>
Chair: Dongkyun Kim (Kyungpook National University, Korea)	
<ol style="list-style-type: none"> <li>1. A Reliable and Adaptive AODV Protocol based on Cognitive Routing for Ad Hoc Networks, Zhenhui Zhai, Yong Zhang, Mei Song, Guangquan Chen(Beijing University of Posts and Telecommunications, China)</li> <li>2. History Based Reliability: A Novel Routing Metric in Mobile Ad Hoc Network, Yaser Ta(Qazvin Islamic Azad University, Iran), Karim Faez(AmirKabir University of Technology, Iran)</li> <li>3. A New Local Repair Scheme for Mobile Ad Hoc Networks, Jihong Zhao, Peng Zhang(Xi' an University of Posts and Telecommunications, China), Hua Qu(Xi' an Jiaotong University, China)</li> <li>4. ROUTING TABLE MAINTENANCE IN MOBILE AD HOC NETWORKS,Seungjin Park(University of Southern Indiana, USA), Seong-Moo Yoo(The University of Alabama in Huntsville, USA)</li> <li>5. A New Secure Scheme Purposed For Recognition And Authentication Protocol In Bluetooth Environment, Seyed Hassan sadeghzadeh, Seyed Javad Mirabedini Shrazani(Islamic Azad University, Iran), Mohammad Mosleh(Islamic Azad University Central Tehran Branch, Iran)</li> </ol>	



## TECHNICAL SESSIONS

<b>Session 9C: SOA and Service Science</b> Chair: ByeongNam Yoon (NIA, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"><li>1. Service Delivery Platform for Convergence Service Creation and Management, Changwoo Yoon, Hyunwoo Lee(ETRI, Korea)</li><li>2. A Framework for Context-Aware Services Using Service Customizer, Mehran Najafi, Kamran Sartipi(McMaster University, Canada)</li><li>3. QoS-aware Selection of Web Service Composition Based on Harmony Search Algorithm, Nastaran Jafarpour, Mohammad Reza Khayyambashi(University of Isfahan, Iran)</li><li>4. An Architecture Design of Life Cycle Based SLA Management, ZHANG Shu, SONG Meina(Beijing University of Posts and Telecommunications, China)</li><li>5. 2-Layered SOA Test Framework Based on Event-Simulating Proxy, Youngkon Lee(Korea Polytechnic University, Korea)</li></ol>	
<b>Session 9D: Network Management, Operation and Maintenance(III)</b> Chair: Yao-Chung Chang (National Taitung University, Taiwan)	<b>Room Topaz II</b>
<ol style="list-style-type: none"><li>1. Double WFQ QoS Scheduling based on Flow Number in Diffserve Network, Tadasuke Minagawa, Tetsushi Ikegami(Meiji university, Japan)</li><li>2. Analysis of M/M/1 Queuing model of Reservation Management for Media Gateway Controller, Pedram Hajipour, Nahid Amani, Farzaneh Seyed Mostafaei(Iran Telecommunication Research Center, Iran)</li><li>3. A Study on a QoS/QoE Correlation Model for QoE Evaluation on IPTV Service, Hyun Jong Kim, Seong Gon Choi(Chungbuk National University, Korea)</li><li>4. Automated tools for manipulating files in a distributed environment with RSYNC, Alireza Ghobadi, C. Eswaran, Chin-Kuan Ho, Payam Vahdani Amoli, Roozbeh Karimi(Multimedia University, Malaysia)</li><li>5. Adaptive Cross-layer QoS Mechanism for Cognitive Network Application, Shih-Wei Liu, Szu-Lin Wu (National Dong Hwa University, Taiwan), Jiann-Liang Chen (National Taiwan University of Science &amp; Technology, Taiwan)</li></ol>	



## TECHNICAL SESSIONS

Day 4 : February 10 (Wednesday)

Session 10 09:00 ~ 10:20

Session 10A: RFID & USN Technologies (I)

Room Ruby I

Chair: Mitsuji Matsumoto (Waseda University, Japan)

1. Optimal Deployment Strategy of RFID Networks Using Tabu Search Mechanism, Yao-Chung Chang, Yu-Shan Lin(National Taitung University, Taiwan), Ci-Jhih Fong(Taiwan Hospitality and Tourism College, Taiwan), Jiann-Liang Chen (University of Science and Technology, Taiwan)
2. USN-based Architecture for Traffic Managemen, J.H. Eu, Ph.D., PE, YH Kim, Ph.D., C.S. Chung, S.J. Park(Jcast Networks Korea, Inc., Korea)
3. A Hybrid Tag Number Estimation Scheme for Aloha Based Anti-Collision Algorithm in RFID Networks, Zheng-Ping li, Shu-Jun Guo, Yu-Hua Wang, Zhi-Hao Yang, Min Zhang(North China University of Technology, China)
4. Enhanced Agent based User Mobility Support Mechanism in RFID Networking Environment, Dong Geun Yun,, Seong Gon Choi(Chungbuk National University, Korea), Chang Ho Seo(Gongju National University, Korea)
5. RFID based Localization Techniques for Indoor Environment, Nichapat Pathanawongthum, Panarat Cherntanomwong(King Mongkut's Institute of Technology Ladkrabang, Thailand)

Session 10B: e-Commerce and m-Commerce (I)

Room Ruby II

Chair: Changwoo Yoon (ETRI, Korea)

1. A Flash-Based Lecture Recording System and its Integration with LMS, Dang H. Anh, G.G.D. Nishantha, Yukuo Hayashida(Asia Pacific University, Japan), Pishva Davar(Saga University, Japan)
2. Research on Terminal Market Oriented Supply Chain Integration System, Zhang Qinghua, Cheng Guoquan, Wang Zhuan, Gao Jing, Sun Hongyu, Xiu Ningning(University of Science and Technology Beijing, China)
3. Mobile Video User Revisit Analysis based on Multi-day Visiting Patterns, Toshihiko Yamakami(ACCESS, Japan)
4. Innovative Communication in Global Tourism Ecommerce Sites- A Cultural Aspect, Kyeong Kang, Yuan Yuan Qian(University of Technology Sydney, Australia)
5. A Pragmatic Approach to Traceability in Food Supply Chains, G.G.D. Nishantha, M.K. Wanniarachchige, and S.N. Jehan(Ritsumeikan Asia Pacific University, Japan)



## TECHNICAL SESSIONS

<b>Session 10C: Information Security Technology (I)</b> Chair: Heonhsik bahn (NIA, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"> <li>1. A Scheme of Trust Management System for P2P Network, BinbinLiang, LizeGu, Bin Sun, Yixian Yang(Beijing University of Posts and Telecommunications, China)</li> <li>2. Online Banking and Modern Approaches Toward its Enhanced Security, A. Hisamatsu, D. Pishva, G.G.D. Nishantha(Ritsumeikan Asia Pacific University, Japan)</li> <li>3. Efficient Implementation of Elliptic Curve Cryptography Using Low-power Digital Signal Processor, Muhammad Yasir Malik(National University of Science and Technology, Pakistan)</li> <li>4. The Vulnerability Analysis and Improvement of the TETRA Authentication Protocol, Yong-Seok Park, Choon-Soo Kim(National Security Research Institute, Korea), Jae-Cheol Ryou(Chungnam National University, Korea)</li> <li>5. A Novel Verifiable Dynamic Multi-Policy Secret Sharing Scheme, Feng Wang, Lize Gu, Shihui Zheng, Yixian Yang, Zhengming Hu(Beijing Universtiy of Post and Telecommunication, China)</li> </ol>	
<b>Session 10D: ITS and LBS Technologies</b> Chair: Davar PISHVA (Ritsumeikan Asia Pacific University, Japan)	<b>Room Topaz II</b>
<ol style="list-style-type: none"> <li>1. Design and Evaluation of Lightweight IEEE 802.11p-based TDMA MAC method for Road Side -to-Vehicle Communications, Rashid A . Saeed, Amran bin Hj Naemat, Azrin bin Aris, Mat Kamil Bin Awang(Access Network Technology, Malaysia)</li> <li>2. Map Generation System with Lightweight GPS Trace Data, Sera Jang, Taehwan Kim, Eunseok Lee(Sungkyunkwan University, Korea)</li> <li>3. Repetitive Error Correction Method for Mobile Reception in DARC FM Multiplex Broadcasting Systems, Yuichi Katabuchi, Tadamasu Fukae, Masato Saito, Minoru Okada(Nara Institute of Science and Technology, Japan)</li> <li>4. Specifications of APIs for exchanging Information based on ITS dedicated Communication, SungDae Jung, TaeOh Kim, SangSun Lee(Hanyang University, Korea), KyeongSoo Han, HyunSeo Oh, HyunKyun Choi(ETRI, Korea)</li> <li>5. Travel Time Prediction for Float Car System Based on Time SeriesJitter, Tongyu Zhu, Xueping Kong, Weifeng Lv, Yuan Zhang, Bowen Du(Beihang University, China)</li> </ol>	
<b>Coffee Break 10:20 ~ 10:40</b>	



## TECHNICAL SESSIONS

<b>Session 11 10:40 ~ 12:00</b>	
<b>Session 11A: RFID &amp; USN Technologies (II)</b> Chair: Heechang Jung (NIA, Korea)	<b>Room Ruby I</b>
<ol style="list-style-type: none"> <li>1. Comparison between innovative approaches of RFID Based Localization using Fingerprinting Techniques for Outdoor and Indoor Environments, Thidarat Jingwangsa, Suwatchai Soonjun, and Panarat Cherntanomwong(King Mongkut's Institute of Technology, Thailand)</li> <li>2. Light-weight RFID Device Interface for Controlling RFID Tag Memory Access, Se Won Oh, Hyochan Bang, Jae Gak Hwang(ETRI, Korea)</li> <li>3. Topology Control in MANET Using RFID Reader, Seyyed Mohammad Ali Tahami(Islamic Azad University, Iran), Arash Dana(Iran Telecommunication Research Center, Iran)</li> <li>4. Synchronized Latency Secured MAC Protocol for PON Based Large Sensor Network, Monir Hossen, Ki-Doo Kim, and Youngil Park(Kookmin University, Korea)</li> <li>5. Design and Implementation of a 2.62 uW Low-power Baseband Processor for Passive UHF RFID Tags, Zhuyu He, Xueyong Zhu , Lin Xian, Gui Li, Guangjun Wen(University of Electronic Science and Technology of China, China)</li> </ol>	
<b>Session 11B: e-Commerce and m-Commerce (II)</b> Chair: Youngkon Lee (Korea Polytechnic University, Korea)	<b>Room Ruby II</b>
<ol style="list-style-type: none"> <li>1. A Survey on How Blackboard is Assisting Educational Institutions around the World and the Future Trends, D. Pishva, G.G.D. Nishantha, H. A. Dang(Ritsumeikan Asia Pacific University, Japan)</li> <li>2. Blog Interface Producing mechanism in e-Learning Platform, Cheng, Hsu-Chen, Heng, Yee-Chiang(Chinese Culture University, Taiwan), Liao, Wen-Wei(National Taiwan Normal University, Taiwan)</li> <li>3. Using Multiple Cryptographic Modules for Server based Certificate Validation System, Takahiro Fujishiro, Akane Sato, Yoko Kumagai, Shingo Hane, Tadashi Kaji(Hitachi, Ltd., Japan), Kenichi Okada(Keio University, Japan)</li> <li>4. Research on Home Health Care Telemedicine Service System Concerned with the Improvement of Medical Resources Utilization Rate and Medical Conditions, Zhang Qinghua, Cheng Guoquan, Wang Zhuan, Gao Jing, Tang Ni, Sun Hongyu, Xiu Ningning(University of Science and Technology Beijing, China)</li> <li>5. Timeliness Optimistic Fair Exchange Protocol Based on Key-Exposure-Free Chameleon Hashing Scheme, Yanbin Sun, Lize Gu, Sihan Qing, Shihui Zheng, Bin Sun, Yixian Yang(Beijing University of Posts and Telecommunications, China) , Yan Sun(Shijiazhuang Army Command Academy, China)</li> </ol>	



## TECHNICAL SESSIONS

<b>Session 11C: Information Security Technology (II)</b> Chair: Heonhsik bahn (NIA, Korea)	<b>Room Topaz I</b>
<ol style="list-style-type: none"> <li>1. MagicNET: Secure Communication Methodology for Mobile Agents, Muhammad Awais Shibli, Imran Yousaf, Kashif Dar, Sead Muftic(KTH, Sweden)</li> <li>2. An independently partial pattern matching for content inspection at multi gigabit networks, Woo-Sug Jung(Electronics and Telecommunication Research Institut, Korea), Taeck-Geun Kwon(Chungnam Nat'l University, Korea)</li> <li>3. A Simple One-time Limited Authorization Mechanism based on ECDSA, Li Hui-na, Ping Yuan(Xuchang Univeristy, China)</li> <li>4. Accountable Privacy Based on Publicly Verifiable Secret Sharing, Young-Sam, Kim, Seung-Hyun, Kim, Seung-Hun, Jin(UST, Korea)</li> <li>5. AES and Confidentiality from the Inside Out, Zilhaz Jalal Chowdhury, Davar Pishva, G. G. D. Nishantha(Ritsumeikan Asia Pacific University, Japan)</li> </ol>	
<b>Session 11D: Game and Multimedia Technologies</b> Chair: ByeongNam Yoon (NIA, Korea)	<b>Room Topaz II</b>
<ol style="list-style-type: none"> <li>1. Face-Recognition Hardware Implementation Based On SOPC, Cheng He, Chunchun Sui, Jing Chen, Cao Xixin(Peking University, China)</li> <li>2. LA-RDO Based Error Resilient Coding Using Multi-Layer Lagrange Multiplier Selection in SVC, Muhammad Shoaib, Anni Cai(Beijing University of Posts and Telecommunications, China)</li> <li>3. AnAVS Video Decoder Design and Implementation Based On Parallel Algorithm, Chunchun Sui, Jing Chen, Xixin Cao(Peking University), Ning Wang(Xidian University, China)</li> <li>4. The Hardware Design and Implementation for CAVLC and Exp-Golomb in H.264/AVC, Jing Chen, Yongliang Chen, Hantao Zhu, XixinCao, Chunchun Sui(Peking University, China), PuFeng Wu(Xi' an Jiaotong University, China)</li> <li>5. MoCap-based Camera Tracking for VFX, Jong-Sung Kim, Hye-Mi Kim, Jae-Hean Kim(ETRI, Korea)</li> </ol>	



## TECHNICAL SESSIONS

Session 11E: Poster Session (V)

Room Diamond I

1. n-Time Protocol for Multiple RFID Tags Authentication, Chang-Hyun Cho, Jaesik Lee, Jae-Woo Kim, Moon-Seog Jun(SoongSil University, Korea)
2. E-Governance Initiative in Sri Lankan Public Service Delivery, S.N.Jehan, G.G.D. Nishantha(Ritsumeikan Asia Pacific University, Japan), S. Qamar Jehan(University of Antwerp, Belgium)
3. User Control Enhanced Digital Identity Interchange Framework, Sang Rae Cho, Seung-Hun Jin(ETRI, Korea)
4. A Concept of Interoperable Authentication Framework for dynamic relationship in Identity Management, Seung-Hyun Kim, Seung-Hun Jin(ETRI, Korea), Hyung-Jin Lim(Financial Security Agency, Korea)
5. A study on the u-Healthcare System in LBS, Eungsuk.Shon, Donghwan.Suh, Wooshik Kim(Sejong University, Korea)
6. Android/OSGi-based Vehicular Network Management System, Teng-Wen Chang(National Taiwan University, Taiwan)
7. Designing Context Awareness Middleware Architecture for Personal Healthcare Information System, Mangal Sain, HoonJae Lee(Dongseo University, Korea), Wan Young Chung(Pukyong National University, Korea)
8. A Vertical View of Social Structure on Location-utilized Mobile Games, Toshihiko Yamakami( ACCESS, Japan)
9. Design of KDM System for Digital Cinema, Yeonjeong Jeong, Jungsoo Lee, Kisong Yoon(ETRI, Korea)
10. Adaptive Security Management Model in the Cloud Computing Environment, Youngmin Jung, Mokdong Chung(Pukyong National University, Korea)
11. A Study on Efficient OTP Generation using Stream Cipher with Random Digi, Young Sil Lee, HyoTaek Lim, HoonJae Lee(Dongseo University, Korea)
12. Online Game Testing Using Scenario-based Control of Massive Virtual Users, Chang-Sik Cho, Kang-Min Sohn, Chang-Jun Park(ETRI, Korea), Ji-Hoon Kang(Chungnam National University, Korea)
13. An Exploratory Study on Avatar-Self Similarity, Mastery Experience and Self-Efficacy in Games, YeiBeech Jang(KAIST, Korea), WooRi Kim, SeoungHo Ryu(Kangwon National University, Korea)
14. Rich Media Contents Authoring System based on MPEG-4 LAsER, Injae Lee, Jihun Cha, Myungseok Ki, Hankyu Lee, Jinwoo Hong(ETRI, Korea)



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## TECHNICAL SESSIONS

Session 11E: Poster Session (V)

Room Diamond I

15. Novel No-Reference Video Quality Assessment Metric with Estimation of Dynamic Range Distortion, Yo-Han Kim, Junghyun Han, Hyuntai Kim, Jitae Shin(SungKyunKwan Univ., Korea)
16. Anisotropic Diffusion for Preserving Boundary-edge, Hye Suk Kim(Chonnam National University, Korea), Yeong Joo Cho(Chosun University, Korea)
17. A Gaze Tracking Method as an IPTV Interface, Chul Woo Cho, Ji Woo Lee, Hyeon Chang Lee, Won Oh Lee, Kang Ryoung Park(Dongguk University, Korea), Eul Chul Lee(Sangmyung University, Korea), Minsik Park, Heekyung Lee, and Han-Kyu Lee(ETRI, Korea)
18. Trend Analysis Pilot Aided Channel Estimation in OFDM Systems, Mohamed M. A. Moustafa (Akhbar El Yom Academy, Egypt)
19. Robust Joint Transceiver Power Allocation for Multi-User Downlink MIMO Transmissions, Chirawat Kotchasarn(Rajamangala University of Technology, Thailand)



## REGISTRATION

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

- **Pre-registration period is from Nov. 30, 2009 to Dec. 31, 2009.**

(But the pre-registration of general participants, who are not main authors or speakers of ICACT2010, is allowed by Jan. 31, 2010.)

- 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](mailto:operation@icact.org)

- **You should request the notarized invitation letter at the same process of pre-registration by Dec. 31, 2009 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, 2009 Other Participants : before Jan. 31, 2010	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 \$550 / ₩550,000
	Student	US \$350 / ₩350,000	US \$400 / ₩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.



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## 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 1,200 Korea Won to the US dollar)
- **To foreign participants, special conference rates are applicable for Feb. 7-11, 2010**  
(To native participants, reduced room rates are applicable **for Feb. 7-10, 2010**)
- In order to make reservations, please download at  
[http://www.icact.org/download/2010/ICACT2010\\_Hotel.doc](http://www.icact.org/download/2010/ICACT2010_Hotel.doc) and fill the document of the file  
(ICACT2010\_Hotel.doc).
- Then e-mail the document to the address below.  
E-mail: [prmember@bokwang.com](mailto:prmember@bokwang.com)  
Tel: +82-1577-0069 (For English service, please press number "9")

### PHOENIX PARK (<https://www.phoenixpark.co.kr/global/english/default.aspx>)

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-gun, 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(Hotel)



3F

- 1. Topaz
- 2. Opal



2F

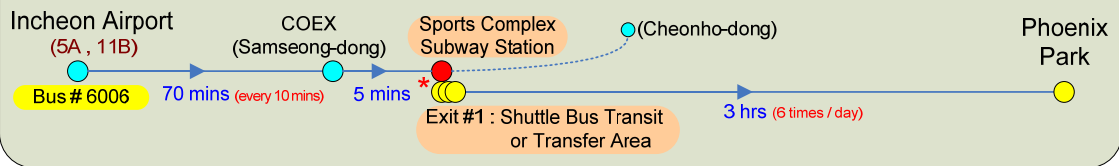
- 1. Phoenix ballroom
- 2. Diamond
- 3. Emerald
- 4. Ruby
- 5. Business center



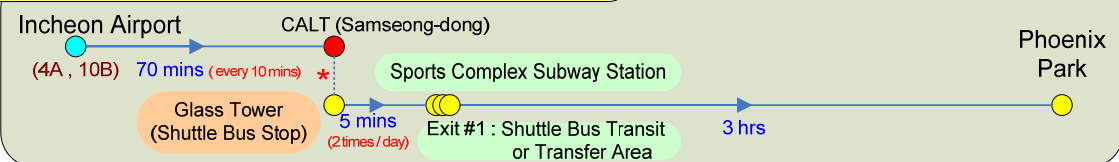
## TRANSPORTATION (by Bus)



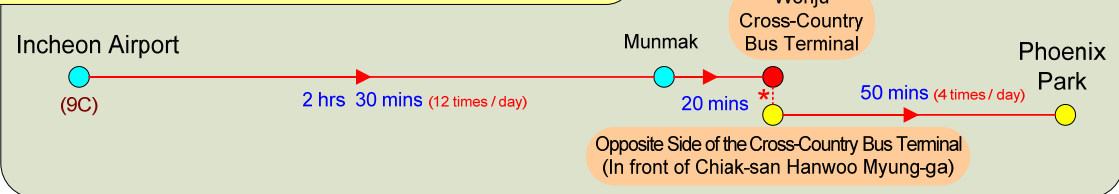
**Route 1A : 4 hrs 10 mins (6 times / day) ₩ 25,000**



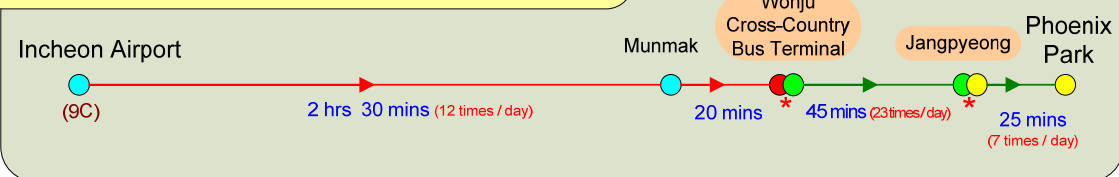
**Route 1B : 4 hrs 10 mins (2 times / day) ₩ 30,000**



**Route 2 : 3 hrs 40 mins (4 times / day) ₩ 17,300**



**Route 3 : 4 hrs (7 times / day) ₩ 21,300 (Transfer twice)**



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



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## OTHER INFORMATION

### 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](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](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/page/main.html> (Information about Gangwon-Do)

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



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