

# THE 13th INTERNATIONAL CONFERENCE ON ADVANCED COMMUNICATION TECHNOLOGY

Smart Service Innovation through Mobile Interactivity



Phoenix Park, Republic of Korea  
Feb. 13~16, 2011

FINAL  
PROGRAM

## Organizers



## Sponsors







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## TABLE of CONTENTS

<b>MESSAGE .....</b>	<b>2</b>
<b>OBJECTIVES.....</b>	<b>4</b>
<b>COMMITTEE.....</b>	<b>4</b>
<b>SESSION OVERVIEW .....</b>	<b>6</b>
<b>PLENARY SESSION .....</b>	<b>8</b>
<b>TUTORIAL SESSION .....</b>	<b>9</b>
<b>TECHNICAL SESSION.....</b>	<b>12</b>
<b>REVIEWER LISTS .....</b>	<b>44</b>
<b>TRANSPORTATION (By Bus).....</b>	<b>50</b>
<b>ACCOMODATION .....</b>	<b>51</b>
<b>VENUE .....</b>	<b>52</b>
<b>OTHER INFORMATION.....</b>	<b>53</b>
<b>MEMO .....</b>	<b>54</b>



## MESSAGE

### Message from the ICACT2011 General Chair

On behalf of the ICACT2011 international conference committee, I would like to welcome all of you to ICACT2011. It is a great pleasure for me to host this 13th International Conference on Advanced Communication Technology 2011 (ICACT2011) 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, ICACT2011, provides 49 technical sessions including 317 papers from 34 countries, which has grown steadily both in its 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 the IEEE Xplore. The papers have been also indexed by several databases such as INSPEC, Engineering Index (EI), SCOPUS, and Conference Proceedings Citation Index (CPCI).

The special theme of ICACT2011 is "Smart Service Innovation through Mobile Interactivity". Due to the rapid penetration of various smart devices such as smart phones and smart TVs, the network must be smarter for all the people to use the intelligent services with smart IT technologies in their every-day lives. I sincerely hope that the ICACT2011 will play a great role and make substantial progress in doing so.

I am very certain that ICACT2011 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 13-16, 2011 at Phoenix Park, Korea.

ICACT 2011  
Prof. Yong-Jin Park, General Chair

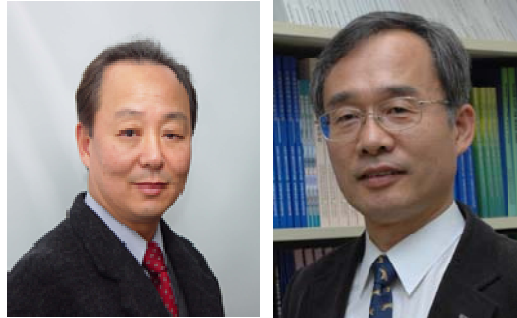


## MESSAGE

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

We would like to welcome to ICACT2011! It is a great pleasure to host this 13th 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.

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.



Due to the rapid penetration of various smart devices such as smart phones, the network traffic is dramatically increasing and the network market is changing recently. The network must be smarter in order to keep up with the change of network environment and the advent of future smart services. To deal with these technology and market trends, we chose the phrase "Smart Service Innovation through Mobile Interactivity" as the theme of ICACT2011. Under this theme, ICACT2011 consists of a plenary session with two keynote speeches by remarkable world experts, 3 tutorial sessions with 3 interesting subjects, and 49 technical sessions including 5 poster sessions. The TPC carefully selected a limited number of 317 papers from 34 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 ICACT2011 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.

ICACT2011  
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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## SESSION OVERVIEW

### Day 1: Feb.13 (Sunday)

14:30 ~ 18:00	<b>Registration (2<sup>nd</sup> Floor, Phoenix Park Hotel)</b>	
<b>Time</b>	<b>Session</b>	<b>Phoenix I</b>
15:00 ~ 18:00	Tutorial	Tutorial 1: Introduction to WiMAX

### Day 2: Feb. 14 (Monday)

08:30 ~ 18:30	<b>Registration (2<sup>nd</sup> Floor, Phoenix Park Hotel)</b>						
<b>Time</b>	<b>Session</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
		<b>Ruby</b>	<b>Emerald</b>	<b>Diamond</b>	<b>Phoenix III</b>	<b>Phoenix II</b>	<b>Phoenix I</b>
09:00 ~ 10:20	S1	1A: Wireless Communication Technology I	1B: Mobile Communications I	1C: RFID & USN Technologies I	1D: Digital Home Network Technology	-	Tutorial 2: Cooperative communication fundamentals and coding techniques
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	S2	2A: Wireless Communication Technology II	2B: Mobile Communications II	2C: RFID & USN Technologies II	2D: Wireless Sensor Network	2E: Poster Session I	
12:00 ~ 13:20	Lunch						
13:20 ~ 14:40	S3	3A: Wireless Communication Technology III	3B: Mobile Communications III	3C: Optical Networking Technology I	3D: Distributed Computing Technologies I	-	-
14:40 ~ 15:00	Coffee Break						
15:00 ~ 16:20	S4	4A: Wireless Communication Technology IV	4B: Mobile Communications IV	4C: Optical Networking Technology II	4D: Distributed Computing Technologies II	4E: Poster Session II	-
16:20 ~ 17:30	Coffee Break						
17:30 ~ 18:50	<b>Plenary Session (Phoenix I , II )</b> Keynote Speech 1: Development Strategy for Smart Network in Korea (Dr. Kwang-TaekRyu) Keynote Speech 2: The Dawn of Smart Networks(Dr. C. Randy Giles)						
19:00 ~ 20:30	<b>Opening Ceremony and Banquet (Phoenix I , II , III)</b> Welcome Address: Prof. Yong-Jin Park (ICACT2011 General Chair)						





## SESSION OVERVIEW

### Day 3: Feb. 15 (Tuesday)

08:30 ~ 18:30	<b>Registration (2<sup>nd</sup> Floor, Phoenix Park Hotel)</b>						
Time	Session	A	B	C	D	E	F
		Ruby	Emerald	Diamond	Phoenix III	Phoenix II	Phoenix I
09:00 ~ 10:20	S5	5A: Wireless Communication Technology V	5B: Mobile Communications V	5C: Game and Multimedia Technologies I	5D: Information Security Technology I	-	-
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	S6	6A: Wireless Communication Technology VI	6B: Mobile Communications VI	6C: Game and Multimedia Technologies II	6D: Information Security Technology II	6E: Poster Session III	-
12:00 ~ 13:20	Lunch						
13:20 ~ 14:40	S7	7A: Wireless Communication Technology VII	7B: Mobile Communications VII	7C: Next Generation Network Technology I	7D: Information Security Technology III	-	-
14:40 ~ 15:00	Coffee Break						
15:00 ~ 16:20	S8	8A: Wireless Communication Technologies VIII	8B: Network Management I	8C: Next Generation Network Technology II	8D: Network Security Technology	8E: Poster Session IV	Tutorial 3: Future Internet Issues and Possible Solutions: Humans, Machines and Other Constrained Devices
16:20 ~ 16:40	Coffee Break						
16:40 ~ 18:00	S9	9A: Wireless Communication Technology IX	9B: Network Management II	9C: Next Generation Network Technology III	9D: VoIP Technology	-	

### Day 4: Feb. 16 (Wednesday)

Time	Session	A	B	C	D	E	F
		Ruby	Emerald	Diamond	Phoenix III	Phoenix II	Phoenix I
09:00 ~ 10:20	S10	10A: Wireless Communication Technology X	10B: Systems & Software Engineering I	10C: Digital Broadcasting Technology	10D: Green IT Technology	-	-
10:20 ~ 10:40	Coffee Break						
10:40 ~ 12:00	S11	11A: e-Commerce and m-Commerce	11B: Systems & Software Engineering II	11C: IPTV Technology	11D: ITS and LBS Technologies	11E: Poster Session V	-



Day 2 : February 14 (Monday)

Plenary Session : 17:30 ~ 18:50 Phoenix I , II  
Chair : Dr. Hyeong-Ho Lee (ICACT2011 TPC Chair)

Keynote Speech 1: Development Strategy for Future Network in Korea

Speaker : Dr. Kwang-TaekRyu  
(Vice President, NIA, Korea)

This speech introduces the changing trend of network environment of the world through the cases of Korea, and proposes a strategy for improving network of the future. The network environment of Korea, the leading country of broadband services, has rapidly changed. The key features of recent changes are summarized as evolution of devices such as smart phones, rapid increase of network traffic, and the change of network market. Devices are becoming smarter than ever as they are equipped with communication facilities. The network must be smarter in order to keep up with the fore-mentioned change of network environment and the advent of future services. At the same time, the smarter network is important in order for all the people to use the intelligent services with smart IT technologies in their every-day lives. This presentation will give the directions for developing and deploying the smart network considering three aspects: 'ultra-broadband network', 'intelligent network', and 'open and integrated platform'.



Keynote Speech 2: The Dawn of Smart Networks

Speaker : Dr. C. Randy Giles  
(Executive Director and President of Bell Labs Seoul, Korea)

**Online Definitions:**

**Smart**

- o Showing mental alertness and calculation and resourcefulness (Wordnetweb)
- o Capable of independent and apparently intelligent action (Wordnetweb).

**Intelligent Network:**

- o An Intelligent Network allows operators to differentiate themselves by providing value-added services in addition to the standard telecom services (Wikipedia)
- o A network that allows the fast and flexible introduction of new services and customisation capabilities for users of that network (kcomplc.com)



Yesterdays networks simply transported and routed bits among clients, whether they were man or machine. In sharp contrast, todays smart networks incorporate powerful computational and storage datacenters to support new services with ubiquitous access through mobile multimedia platforms. Yet the synthesis and instantiation of new services that use the network intelligence, cloud resources, and target smart terminal devices remains slow and difficult. Windows Azure (Microsoft), Cloudstart (HP), IBM Cloud (IBM), are examples of cloud-based operating systems and tools that are emerging to simplify the otherwise complex tasks of integrating the end-to-end function of new cloud-based services. Equally important though, the rapid deployment of custom services and applications requires access to functions at the network element level using Application Programming Interfaces (APIs) in what is termed Applications Enablement. This talk will consider the societal, economic and business forces that are driving the emergence of the Smart Network and the implications of Applications Enablement to equipment vendors, network operators, service providers and end users.



## TUTORIAL SESSION

Day 1 : February 13 (Sunday)

Tutorial Session	15:00 ~ 18:00	Phoenix I
Tutorial 1 : Introduction to WiMAX	Speaker : Dr. PooriaVarahram (University Putra Malaysia, Malaysia)	
<p>Within the last two decades, communication developments have reshaped our daily lives. Wireless communications has grown from an obscure, unknown service to an ubiquitous technology that serves almost half of the people on Earth. WiMAX which stands for Worldwide Interoperability for Microwave Access is about to bring the wireless and Internet users to portable devices across the globe. In its simplest form, WiMAX promises to deliver the Internet throughout the globe. In this tutorial our main aim is to first introduce this service and explore it for advances in PHY layer. Some features like Peak to Average Power Ratio (PAPR) and linearization are most interest topics of this tutorial. It follows with introduction to MAC layer, link and system level performance in WiMAX together with latest technology in WiMAX systems. Briefly the tutorial covers the following areas:</p> <ul style="list-style-type: none"><li>- Overview of WIMAX</li><li>- WiMAX PHY layer</li><li>- OFDM and OFDMA</li><li>- WiMAX MAC Layer</li><li>- PAPR in WiMAX</li><li>- Linearization in WiMAX</li><li>- Link and System level performance of WiMAX</li></ul>		





Day 2 : February 14 (Monday)

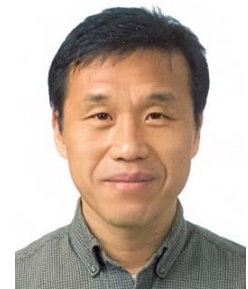
Tutorial Session 09:00 ~ 12:00

Phoenix I

Tutorial 2 : Cooperative Communication Fundamentals and Coding Techniques

Speaker : Dr. Kiung Jung  
(ETRI, Korea)

The transmitted signal in a wireless channel undergoes various types of degradations such as additive white Gaussian noise (AWGN), shadowing, and multi-path fading. The most usual approach for mitigating the effect of these degradations up to recently have placed emphasis on the physical layer signal processing and coding design for each single communication link between a transmitter and a receiver. However, practically, many wireless communication systems contain multiple terminals that share a common medium, and information theory indicates that the wireless terminals can jointly use the medium as a shared resource instead of one that is divided orthogonally among pairs of terminals to enhance wireless channel capacity.



Spatial diversity gain can be attained by using multiple antennas to improve wireless communication performance without requiring additional wireless resources. However, the spacing between antenna elements depends on the carrier wavelength, and this might often exceed the size of modern mobile radio. Cooperation among users can be an alternative means to achieve diversity in wireless networks. Furthermore, in a wireless network, many terminals are distributed randomly to constitute a variety of network configurations and various links with having different link conditions. It exploits cooperative communications among users for providing efficient schemes of sharing wireless resources to increase channel capacity or other communication performances.

Recently, cooperative communication techniques have been proposed that provided practical designs for wireless networks to exploit the shared medium. Much of the related work has focused on the relay channel, and the term "cooperative communications" is sometimes used to refer to relay channels. However, the resurgence in interest in multi-terminal communications has also included other types of cooperation among terminals, and I use the term cooperative communications in this broader sense.

The focus of presentation is understanding fundamental concept and practical coding schemes for cooperative communications. Basically, the presentation is divided in two sections. In first section, I will introduce information theoretical aspects of cooperative communication which can be theoretical basis for cooperative communication. I will also present several basic schemes of relay transmission and iterative diversity. In second section, I will focus on schemes that can achieve performance close to capacity or the best known achievable rates in wireless networks by cooperative communications. I will discuss open problems in cooperative communications and how contributions in these areas may improve the performance of future wireless networks.



Day 3 : February 15 (Tuesday)

Tutorial Session 15:00 ~ 18:00

Phoenix I

Tutorial 3 : Future Internet Issues and Possible Solutions: Humans, Machines and Other Constrained Devices

Speaker : Dr. Dhananjay Singh Singh  
(National Institute of Mathematical Sciences, Korea)

During last decades, purpose of the internet usage deflected from its normal usage that thought before for peer to peer communication. Internet is the medium to provide global connectivity all objects and IPv6 protocol considered to be a solution, but still it requires improvement in direction particularly, mobility and multihoming, internet and IPv6 based USN (6lowpan), application oriented optimization etc. Idea of internet services is to connect all the possible things globally while internet of services provides various functionally to support it as well as provides various services to users according their requirements as the future internet characterized with highly complex networks with numerous heterogeneous objects.



One possible solution is semantic technologies for interoperability and agent technologies for management of complex system. Toward this direction, ontological annotation and classification somehow solve problem of data representation and its storage, and provide interoperability in term of physical characteristics and time-space characteristics but still required much consideration regarding functional or behavioral interoperability and how to make it possible.



## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 09:00 ~ 10:20	
<b>Session 01A : Wireless Communication Technology I</b>	Room : Ruby
Chair : Tomohisa WADA (University of the Ryukyus, Japan)	
01A-01	Dependency of Jitter Variance on PLL Normalized Noise Bandwidth
0112	<i>Isamu Wakabayashi, Shun-ichi Urano, Masatoshi Sano (Tokyo University of Science, Japan)</i>
01A-02	Antenna Directivity Effect on the Delay Spread at Millimeter-Wave
0184	<i>Jong Ho Kimm, Myoung-Won Jung, YoungKeun Yoon (ETRI, Korea)</i>
01A-03	Applications of Internet of Things on Smart Grid in China
0708	<i>Jianming Liu, Xiangzhen Li, Xi Chen, Yan Zhen, Lingkang Zeng (State Grid Information &amp; Telecommunication Company, China)</i>
01A-04	Performance Evaluation of the Reliable Cooperative MAC Protocol in Ad Hoc Networks
0203	<i>Jaeshin Jang (Inje University, Korea), Sang Wu Kim (Iowa State University, USA)</i>
01A-05	A Road and Traffic-aware Routing Protocol in Vehicular Adhoc Network
0274	<i>Pham Hong, Park Huynhee, Kang Chul-hee (Korea University, Korea)</i>

<b>Session 01B : Mobile Communications I</b>	Room : Emerald
Chair : Sun-Moo Kang (National Information Society Agency, Korea)	
01B-01	Design of a Rectangular Spiral Antenna for Wi-Fi Application
0403	<i>N. H. Abdul Hadi, K. Ismail, S. Sulaiman and M. A. Haron (Universiti Teknologi MARA, Malaysia)</i>
01B-02	Effective Contention-based Bandwidth Request Scheme for QoS Enhancement in IEEE 802.16e
0092	<i>JaeGwan Kim, In Cheol Baek, Hong Ku Kang, Ji Sang You (Agency for Defense Development, Korea)</i>
01B-03	Service Class Aided Scheduling for LTE
0090	<i>Hung Pham, Xuan Nhan Vu, Seung-Hoon Hwang (Dongguk University, Korea)</i>
01B-04	Impacts of CEE and CBS on the Capacity of MIMO-OFDM Systems
0012	<i>Yong-Quan JIANG, Li-Sheng Fan, Xue-Jiao Shu, Shuo Wang (Shantou University, China)</i>
01B-05	Two-Step Paging for Reducing Signaling Costs in Mobile IP
0337	<i>Anyamane Navichai, Watit Benjapolakul (Chulalongkorn University, Thailand)</i>

Time 10:20 ~ 10:40	Coffee Break
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 09:00 ~ 10:20	
<b>Session 01C : RFID/USN Technologies I</b>	
Room : Diamond	
Chair : Okgee Min (ETRI, Korea)	
01C-01	ACMOS Power Amplifier for UHF RFID Reader Systems
0402	<i>Suyeon Han, Youngoo Yang, Minsu Kim, Hyunchul Kim (Sungkyunkwan University, Korea)</i>
01C-02	Needle in a cross-layer sensor stack
0424	<i>Vasanth Iyer, Garmiela Rama Murthy, Kannan Srinathan (IIIT, India), S. Sitharama Iyengar (Louisiana State University, USA), Mandalika B. Srinivas (BITS, India), Dhananjay Singh (NIMS, Korea)</i>
01C-03	A Joining Mechanism for Efficient Address Management in Low-rate WPAN Mesh
0214	<i>Woo Suk Ahn, Dong Yoep Hwang, Ki-hyung Kim (Ajou university, Korea)</i>
01C-04	rXPDL: An XML-based Policy Definition Language for Policy-driven RFID Event Management Agents
0677	<i>Hyun Ahn, Bumjo Park, Wonbo Shim, Namgi Kim, Heeyoul Kim, Kwanghoon Kim (Kyonggi University, Korea), Youngyoun Ahn, Dongkeun Oh, Eunsoo Kim (RFID Research Laboratory, Korea)</i>
01C-05	The implementation of the intelligent transport system for the real-time roadside environment information transfer
0380	<i>GilYong Lee, HoGil Cho, SungHoon Choi (ETRI, Korea), HyunMoon Park (KETI, Korea), SooHyun Park (KookMin Univ, Korea)</i>

<b>Session 01D : Home Network Technology</b>	
Room : Phoenix III	
Chair : Zichao Zhuang (State Grid Information & Telecommunication Co., China)	
01D-01	Recognition Assisted Dynamic Surveillance System Based on OSGi and OpenCV
0309	<i>Jenq-Shiou Leu, Wei-Hsiang Lin, Min-Chieh Yu, Hung-Jie Tzeng (NTUST, Taiwan)</i>
01D-02	Architecture for Smart Grid Based Consumer End Solution
0683	<i>Shailendra Barania, Sanjay Singh, Samir Chaturvedi, Omkar Karande, Shashank Dhariwal, Varun Mohan (NMIMS University, India)</i>
01D-03	A Functional Architecture for User-Centric Multimedia Service on Mobile Station
0229	<i>Kyeong Gon Ham, Kam Yong Kim, Seong Gon Choi (Chungbuk National University, Korea)</i>
01D-04	Application of Converged Communications in Smart Power Consumption Interactive Service
0687	<i>Bingzhen Zhao, Jianming Liu, Ning Li, Zichao Zhuang (SGIT, China)</i>
01D-05	Evaluation of Adaptive Modulation Technique in PAPR Reduction in OFDM Based High Voltage Power Line Communication Systems
0035	<i>Ehsan ATEFAT DOOST, Navab GHAEDI (Fars Regional Electric Company, Iran), Mohamad Hossein GHAMAT, Marzyeh GOLABI (Shiraz University, Iran)</i>

Time 10:20 ~ 10:40	Coffee Break
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 10:40 ~ 12:00	
<b>Session 02A : Wireless Communication Technology II</b>	
Room : Ruby	
Chair : Nurul Sarkar (Auckland University of Technology, New Zealand)	
02A-01	Low Complexity Hybrid Smart Antenna with Directional Elements over Frequency-Selective Fading Channel
0478	<i>Juinn-Horng Deng (Yuan Ze University, Taiwan), Nuri Celik, Zhengqing Yun, Magdy F. Iskander (University of Hawaii at Manoa, USA)</i>
02A-02	PAPR Performance of Dual Carrier Modulation using Improved Data Allocation Scheme
0278	<i>Soobum Cho, Sang Kyu Park (Hanyang Univ., Korea)</i>
02A-03	GLRT-based Detection in SIRV Clutter with Steering Vector Mismatches
0513	<i>Xin Dai (Chongqing University, China), Guolong Cui, Lingjiang Kong (University of Electronic Science and Technology of China, China)</i>
02A-04	Session-oriented Adaptive Routing for Improving Path Stability in WLAN based Mesh Networks
0717	<i>Yu-Jin Son, Sung-Hee Lee, Young-Bae Ko (Ajou University, Korea)</i>
02A-05	Study of PAPR Reduction Methods in OFDM Systems
0681	<i>Somayeh Mohammady, Roslina bt. Mohd Sidek, Pooria Varahram, Mohd Nizar b. Hamidon, Nasri Sulaiman (University Putra Malaysia, Malaysia)</i>

<b>Session 02B : Mobile Communications II</b>	
Room : Emerald	
Chair : Hsin-Kun Lai (Asia-Pacific Institute of Creativity, Taiwan)	
02B-01	WINA: A Framework to Conserve Energy in Mobile Wireless Communications
0130	<i>Suwanit Chareen, Hong Xie, Peter Cole (Murdoch University, Australia)</i>
02B-02	A Fast and Accurate ICI Cancellation with Feedback Correction for the LTE-Advanced Uplink System
0050	<i>Haeseong Jeong, Heung-Gyoon Ryu (Chungbuk National University, Korea)</i>
02B-03	Analyzing the TCP Performance on Mobile Ad-Hoc Networks
0242	<i>Pin-Chuan LIU, Wei-Cheng Sun (ITRI, Taiwan), Da-You CHEN, Chih-Lin HU (National Central University, Taiwan), Jen-Hwa LEE (National Cheng Kung University, Taiwan), Chung-Kuang CHOU (National Taiwan University, Taiwan), Wei-Kuan SHIH (National Tsing Hua University, Taiwan)</i>
02B-04	Hierarchical Identity-Based Encryption Authentication Scheme for WiMAX and Femtocell
0100	<i>VAN THUAN PHAM, BONG KYO MOON (Dongguk University, Korea)</i>
02B-05	Performance Analysis of an (m, n) Energy Detector in Fading Environment with Double Threshold
0357	<i>Ibrahim Al-Nomay (KACST, Saudi Arabia), Muhammed Alrabeiah (KSU, Saudi Arabia)</i>

Time 12:00 ~ 13:20	Lunch
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 10:40 ~ 12:00	
<b>Session 02C : RFID/USN Technologies II</b>	Room : Diamond
Chair : Hyeong-Ho Lee (ETRI, Korea)	
02C-01	Convergence of Multi-information System based on Web
0297	<i>Sung-Il Hong, Hyen-Sik Lyu, Chi-Ho Lin, Dal-Hwan Yoon (Semyung University, Korea),</i>
02C-02	A Hierarchical Structure based Reader Anti-Collision Protocol for Dense RFID Reader Networks
0030	<i>Youngchang Kang, Minjae Kim, Hyuckjae Lee (KAIST, Korea)</i>
02C-03	Gradual Cluster Head Election for High Network Connectivity in Large-Scale Sensor Networks
0710	<i>Sang Hyuk Lee (ROK ARMY, Korea), Soobin Lee, Heecheol Song, Hwang Soo Lee (KAIST, Korea)</i>
02C-04	Secure Authentication and Communication in Ubiquitous Healthcare Middleware
0317	<i>Mangal Sain, Pardeep Kumar, Hoon Jae Lee (Dongseo University, Korea)</i>
02C-05	Development of design technique for the performance improvement of ConTracer
0398	<i>Hyung Rim Choi, Jae Joong Kim, Chae Soo Kim, Eun Kyu Lee, Joong Jo Shin, Jung Rock Shon, Sung Pill Choi, Young Sik Moon (Dong-A Univ, Korea)</i>

<b>Session 02D : Wireless Sensor Network</b>		Room : Phoenix III
Chair : Shailendra Barania (NMIMS University, India)		
02D-01	On Transmission Efficiency of the Multimedia Service over IEEE 802.15.4 Wireless Sensor Networks	
0145	<i>Mu-Sheng Lin, Jenq-Shiou Leu, Wen-Chi Yu, Min-Chieh Yu (NTUST, Taiwan), Jean-Lien Chen, Wu (St. John's University, Taiwan)</i>	
02D-02	Analysis of Range-Based Localization Schemes in Wireless Sensor Networks: A Statistical Approach	
0485	<i>Sunita Chaurasia (Near Air Force Station-Hindon, India), Ashish Payal (Guru Gobind Singh Indraprastha University, India)</i>	
02D-03	Threshold Based Load Balancing Protocol for Energy Efficient Routing in WSN	
0371	<i>Sohail Jabbar, Abid Minhas (Bahria University Wireless Research Center, Pakistan), Ayesha Ejaz Butt, Najm-us Sehr (Khan Institute of Computer Science Technology, Pakistan)</i>	
02D-04	Managing Disaster with Wireless Sensor Networks	
0735	<i>Nor Azlina Ab. Aziz, Kamarulzaman Ab. Aziz (Multimedia University, Malaysia)</i>	
02D-05	A Sensor Utilization Scheme for the Coverage Guarantee Criteria in a Wireless Sensor Network	
0545	<i>Niramol PHUNSEANTAVEEKUL, Teerasit KASETKASEM (Kasetsart University, Thailand)</i>	

Time 12:00 ~ 13:20	Lunch
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 10:40 ~ 12:00	
<b>Session 02E : Poster Session I</b>	Room : Phoenix II
Chair : Tae-Il Kim (ETRI, Korea)	
02E-01	Design of a Folded-cascode UWB Low Noise Amplifier with Low Power Consumption
0116	<i>Young Sung Lee, Nackgyun Seong, Yohan Jang, Jaehoon Choi (Hanyang University, Korea)</i>
02E-02	Study on the Application of MIMO System
0539	<i>haiyang Fu, Weiwei Qian (Nanjing University of Posts and Telecommunications, China)</i>
02E-03	The Effect of Measurement Error on the Estimation of Channel Parameters and a Novel Way to Prevent Estimation Failure
0241	<i>Bumsoo PARK, Byung-Jae KWAK , Myung Don Kim, Jae Joon Park, Hyun Kyu Chung (ETRI, Korea)</i>
02E-04	A handover technology using wireless dongle over heterogeneous access network environment
0466	<i>KangWoon Hong, Hyun-Woo Lee (ETRI, Korea), Seung-ho Yeon (KT, Korea)</i>
02E-05	Performance evaluation of MIMO schemes based on IEEE 802.16m technology
0624	<i>Seokki Kim, Kwangjae Lim, Chulsik Yoon (ETRI, Korea)</i>
02E-06	Integrated Flow Management in Packet Transport System
0562	<i>Chang-Ho CHOI (ETRI, Korea), Whan-Woo KIM (Chungnam National University, Korea)</i>
02E-07	Efficient High-Speed Optoelectronic Interconnects Parameter Extraction Based on 3D Field Simulation
0704	<i>Ikechi Augustine Ukaegbu, Tae-Woo Lee, Hyo-Hoon Park (KAIST, Korea)</i>
02E-08	Circuit Implementation of OOK Modulation for Low-Speed Power Line Communication Using X10 standard
0103	<i>Chia-Hung WANG, Chia-Yu CHEN, Tai-Ping SUN (National Chi Nan University, Taiwan)</i>
02E-09	A Real-Time HWIL Simulation Control System Architecture for Implementing Evaluation Environment of Complex Embedded Systems
0135	<i>WoonSik KIM, ByungSun LEE, KyungSoo KIM, TaeSoo Yang (ADD, Korea), SangHa KIM (ChungNam National University, Korea)</i>
02E-10	An Effective Privacy Protection Scheme for Cloud Computing
0209	<i>I-Hsun Chuang, Syuan-Hao Li, Kuan-Chieh Huang, Yau-Hwang Kuo (National Cheng Kung University, Taiwan)</i>
Time 12:00 ~ 13:20	Lunch



## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 10:40 ~ 12:00	
<b>Session 02E : Poster Session I</b>	
Room : Phoenix II	
Chair : Tae-Il Kim (ETRI, Korea)	
02E-11	An e-Science Problem Solving Environment for Scientific Numerical Study
0331	<i>Hyejeong Kang, Kyoung-a Yoon, Seoyoung Kim, Yoonhee Kim (Sookmyung Women's University, Korea), Chongam Kim (Seoul National University, Korea)</i>
02E-12	Issues on Supporting Public Cloud Virtual Machine Provisioning and Orchestration
0430	<i>Okgee Min, Choonsoo Park, Joongsoo Lee, Junghyun Cho, Hakyoung Kim (ETRI, Korea)</i>
02E-13	Backup Server Using Direct I/O Scheme
0566	<i>Kyung Woo Hur, Wan Yeon Lee, won vien park, Young Woong Ko, JIn Kim (Hallym University, Korea)</i>
02E-14	A Network Management System for u-City
0609	<i>Jin Goo Kang, Ju Wook Jang (Sogang University, Korea), Chang Ho Yun, Yong Woo LEE (University of Seoul, Korea)</i>
02E-15	An Implementation of Mobile Desktop Manager for Mobile Web Devices
0234	<i>Kyung Hee Lee, Hadipurnawan Satria, Chaedeok Lim (ETRI, Korea), Kwan-jong Yoo (Chungnam National University, Korea)</i>
02E-16	Determining Saturation Point in Swarm Robot
0220	<i>Somar Boubou, Yohishiko Tagawa (Kyushu Institute of technology, Japan)</i>
02E-17	Music Mood Classification Model Based on Arousal-Valence Values
0386	<i>JungHyun Kim, SeungJae Lee, SungMin Kim, WonYoung Yoo (ETRI, Korea)</i>
02E-18	A Dynamic CAP Allocation Algorithm using Directional Antenna in IEEE 802.15.3c WPANs
0283	<i>Kiwan LEE, Kyung-Chul SHIN, Chul-Hee KANG, Junghyok Kwon (Korea University, Korea), Yongsun KIM (ETRI, Korea)</i>
02E-19	A Novel Algorithm with a New Form of Adaptive Modulation for Mobile WiMAX Performance Improvement
0356	<i>Shaiyek Md. Buland Taslim (Royal Institute of Technology, Sweden), Shaikh Md. Rubaiyat Tousif (AIUB, Bangladesh), Mohammad Tareq (East West University, Bangladesh)</i>

Time 12:00 ~ 13:20	Lunch
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 13:20 ~ 14:40	
<b>Session 03A : Wireless Communication Technology III</b>	
Room : Ruby	
Chair : Heung-Gyoon Ryu (Chungbuk National University, Korea)	
03A-01	Characteristics of Sequential Detection in Cognitive Radio Networks
0061	<i>Valeri Kontorovich (CINVESTAV-IPN, Mexico), Serguei Primak, Oscar Filio (The University of Western Ontario London, Canada)</i>
03A-02	Design of a MIMO Antenna for USB Dongle Applications Using Common Grounding
0182	<i>Jaesoon KWON, Dongho KIM, Youngki LEE, Jaehoon CHOI (Hanyang University, Korea)</i>
03A-03	On the Performance of Coordinated AF Relaying Transmission Schemes
0335	<i>MinKeun Jeong, SeungGye Hwang, DongKu Kim (Yonsei University, Korea), JangHoon Yang (KGIT, Korea)</i>
03A-04	An Adaptive Wideband Beamformer Using Kalman Filter with Spatial Signal Processing Characteristics.
0183	<i>Mariel Rivas, Shuguo Xie, Donglin Su (Beijing University of Aeronautics and Astronautics, China)</i>
03A-05	Obstacle Recognition System using Ultrasonic Sensor and Duplex Radio-Frequency Camera for the Visually Impaired Person
0305	<i>Do-Hoon Kim, Heung-Gyoon Ryu (Chungbuk National University, Korea)</i>

<b>Session 03B : Mobile Communications III</b>	
Room : Emerald	
Chair : Wenan Zhou (BUPT, China)	
03B-01	Low Complexity ADRG-PTS Scheme for PAPR Reduction in OFDM Systems
0666	<i>Pooria Varahram, Borhanuddin Mohd Ali (University Putra Malaysia, Malaysia), Wisam F. Al-Azzo (Dhofar University, Malaysia)</i>
03B-02	Cluster Based Routing Scheme for Wireless Mesh Networks
0574	<i>Madhusudan Singh, Sang gon Lee, Whye Kit Tan, Jun Huy Lam (Dongseo University, Korea)</i>
03B-03	Study on Power Mobile Multimedia System
0737	<i>FENG ZHAO, JIANMING LIU (SGIT, China), YUEXIA ZHANG (Beijing University of Posts and Telecommunications, China)</i>
03B-04	An Energy Efficient QoS Routing Protocol for Cognitive Radio Ad Hoc Networks
0439	<i>S. M. Kamruzzaman, Eunhee Kim, Dong Geun Jeong (Hankuk University of Foreign Studies, Korea)</i>
03B-05	Adaptive Resource Allocation Method for Mobile Network
0058	<i>Xi LIANG, Moo Wan KIM, Uno SHINTARO (Tokyo Joho University, Japan), Souichiro MIURA (Chuo University, Japan)</i>

Time 14:40 ~ 15:00	Coffee Break
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 13:20 ~ 14:40	
<b>Session 03C: Optical Networking Technology I</b>	
Room : Diamond	
Chair : Yong-Quan JIANG (Shantou University, China)	
03C-01	Link-Disjoint Routing Algorithms with Link-Disjoint Degree and Resource Utilization Concern in Translucent WDM Optical Networks
0066	<i>Tithra Chap, Xin Wang, Yoshiaki Tanaka (Waseda University, Japan), Sugang Xu (National Institute of Info. and Communication, Japan)</i>
03C-02	Fair and Efficient Scheduling Algorithm for EPON
0158	<i>Man Soo Han (Mokpo National Univ., Korea)</i>
03C-03	Fundamental limitations on introducing low cost optical sources in hybrid 40/100G
0151	<i>Ahmed Dooguy KORA, Diallo M. DIOUF, Samuel OUYA (Ecole Sup. Multinationale des Telecommunications, Senegal), Jean-Pierre CANCES (ENSIL, University of Limoges, Senegal)</i>
03C-04	Virtual Network Topology Management for Cross-Layer Provisioning in Multi-Layer Networks
0330	<i>Kim TaeYeon, Jeong YooHyeon, Song HoYoung (ETRI, Korea)</i>
03C-05	Reconfigurable Optical CDMA Network Codecs Structured over M-Signed Waveguide-Gratings
0670	<i>Jen-Fa Huang, Ta-Chun Nieh, You-Da Dai (National Cheng Kung University, Taiwan)</i>

<b>Session 03D: Distributed Computing Technologies I</b>	
Room : Phoenix III	
Chair : Farukh Rahman (RMIT University, Australia)	
03D-01	Replication with State Using the Self-Organizing Map Neural Network
0198	<i>Geofrey Cantara Soriano, Yoshiyori Urano (Waseda University, Japan)</i>
03D-02	Application of PFTTH in Smart Grid
0685	<i>Jianming Liu, Jiye Wang, Pengzhan Fan, Zichao Zhuang (SGIT, China)</i>
03D-03	On-demand Check Pointing for Grid Application Reliability using Communicating Process Model
0604	<i>Baghavathi Priya S (Jawaharlal Nehru Technological University, India), Chandrasekaran Subramaniam (Rajalakshmi Engineering College, India), Ravichandran T (Hindustan Institute of Technology, India)</i>
03D-04	Popularity Estimation in a Popularity-Based Hybrid Peer-to-Peer Network
0449	<i>Marzieh Molaei Kamran (Azad University of Qazvin, Iran), Siavash Khorsandi (Amirkabir University of Technology, Iran)</i>
03D-05	Next Generation Multi-Tenant Virtualization Cloud Computing Platform
0155	<i>Buddhika Siddhisena, Lakmal Warusawithana (Thinkcube Systems (Pvt.) Ltd., Sri Lanka), Mithila Mendis (Access Telecom Technologies, Sri Lanka)</i>

Time 14:40 ~ 15:00	Coffee Break
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 15:00 ~ 16:20	
<b>Session 04A : Wireless Communication Technology IV</b>	
Room : Ruby	
Chair : Juinn-Horng Deng (Yuan Ze University, Taiwan)	
04A-01	Zigbee Based Collaborative AP Discovery
0628	<i>Jianwei Niu, Feifei Wu (Beihang University, Chian), Jinfeng Zhang, Canfeng Chen (Nokia Research Center (Beijing), China)</i>
04A-02	Performance Evaluation of 2.45GHz Chip antenna for Container Security Device(ConTracer)
0399	<i>Hyung Rim Choi, Jae Joong Kim, Chae Soo Kim, Eun Kyu Lee, Joong Jo Shin, Jung Rock Shon, Sung Pill Choi, Young Sik Moon (Dong-A Univ, Korea)</i>
04A-03	Design of Non-Uniform Antenna Arrays Using Genetic Algorithm
0053	<i>Murad Ridwan, Mohammed Ab do (Addis Ababa University, Ethiopia), Eduard Jorswieck (Dresden University of Technology, Ethiopia)</i>
04A-04	Frequency Domain Estimation and Time Domain Correction of CFO and STO Offsets in OFDM System
0076	<i>HuiKyu Lee, Heung-Gyoon Ryu (Chungbuk National University, Korea)</i>
04A-05	Symbol Error Rate of M-PSK Modulation in Incremental-Selective Decode-and-Forward Cooperative Communications over Rayleigh Fading Channels
0415	<i>Rouhollah Aghajani Renani, Reza Saadat, Ghasem Mirjalili (Yazd University, Iran), Mohammed Reza Aref (Sharif University of technology, Iran)</i>

<b>Session 04B : Mobile Communications IV</b>	
Room : Emerald	
Chair : Wei-Cheng Sun (Industrial Technology Research Institute, Taiwan)	
04B-01	Efficient Hybrid ARQ Based on Implicit Information
0020	<i>Hsin-Kun Lai (Asia-Pacific Institute of Creativity, Taiwan)</i>
04B-02	Opportunistic Feedback with Adaptive Modulation over Multiuser Diversity Systems
0284	<i>Chung-Woon Park, Taejoon Kim, Jae-Han Jeon, Young-Jun Cho, Jong-Tae Lim (KAIST, Korea)</i>
04B-03	An Intelligent Data Structure Approaches for Mobile Devices
0410	<i>Mallikharjuna Rao. Nuka (Annacharya P. G College of Computer Studies, India), Dr. M.M Naidu (S.V College of Engineering, india), P. Seetharam (Annamacharya Institute of Technology and Sciences, India)</i>
04B-04	IP header translation protocol design and implementation to a post wireless network service
0200	<i>park jongtak, choi dae-in, Kahng hyun-kook (KOREA.Universty, Korea), Kim Su-yeon (Mobile Lab, Korea)</i>
04B-05	A Novel Bargaining Based Power Allocation for Coordinated Multiple Point Transmission/Reception
0727	<i>Wenan Zhou, Bing Xie, Chenxi Hao (Beijing University of Posts &amp; Telecommunications, China)</i>

Time 16:20 ~ 16:40	Coffee Break
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 15:00 ~ 16:20	
<b>Session 04C: Optical Networking Technology II</b>	Room : Diamond
Chair : Jen-Fa Huang (National Cheng Kung University, Taiwan)	
04C-01	Bus FTTH Networks
0431	<i>Rong Nan Chiou (Southern Taiwan University, Taiwan)</i>
04C-02	Performance Evaluation of Hybrid Buffering Optical Packet Switch for Pareto Traffic
0187	<i>Ahmed Galib Reza, Hyotaek Lim (Dongseo University, Korea)</i>
04C-03	Time-Stamping Accuracy in Virtualized Environments
0134	<i>Rafika Ida Mutia, Nayeema Sadeque, Jens Andersson (Lund university, Sweden), Andreas Johnsson (Ericsson Research, Sweden)</i>
04C-04	Optoelectronic Subcarrier for Chip-to-Chip Optical PCB Applications Using Long Wavelength VCSELs
0318	<i>Ikechi Augustine Ukaegbu, Tae-Woo Lee, Mu Hee Cho, Hyo-Hoon Park (KAIST, Korea)</i>
04C-05	Spontaneous Emission of Silicon-based on 2D Photonic Crystals Slabs with the Honeycomb Lattice and Quantum Dot
0610	<i>Amorntep Wichasirikul, Wanchai Pijitrojana (Thammasat University, Thailand)</i>

<b>Session 04D: Distributed Computing Technologies II</b>		Room : Phoenix III
Chair : Dhananjay Singh (National Institute for Mathematical Sciences (NIMS), Korea)		
04D-01	Distributed Pairing for File Sharing in Large-Scale Peer-to-Peer Networks	
0150	<i>Chih-Lin Hu, Da-You Chen (National Central University, Taiwan)</i>	
04D-02	A Scalable and Adaptive Cloud-based Message Brokering Service	
0447	<i>Frank Yong-Kyung Oh, Shin-gyu Kim, Hyeonsang Eom, Heon Y. Yeom (Seoul National University, Korea), Jongwon Park, Yongwoo Lee (University of Seoul, Korea)</i>	
04D-03	Resource Discovery in Wireless, Mobile and Adhoc Grids – Issues and Challenges	
0470	<i>maniza hijab (Muffakham Jah College of Engg. &amp; Tech, india), Damodaram AVULA (Jawaharlal Nehru Technological University, India)</i>	
04D-04	Improving Content Availability for BitTorrent-like File Sharing employing User-driven Virtualized Nodes	
0119	<i>SuHyun An, JongWon Kim (GIST, Korea), HyunYong Lee (NICT, Korea)</i>	
04D-05	Resource Discovery using Brokering with Dispute Solving in Grid Environment	
0607	<i>Prakash Mohan (Jawaharlal Nehru Technological University, India), Chandrasekaran Subramaniam (Rajalakshmi Engineering College, India), Ravichandaran T (Hindustan Institute of Technology, India)</i>	

Time 16:20 ~ 16:40	Coffee Break
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 15:00 ~ 16:20	
<b>Session 04E : Poster Session II</b>	Room : Phoenix II
Chair : Jin-Dam Mok (ETRI, Korea)	
04E-01	Load Balancing with Transmission Power Control in Femtocell Networks 0031 <i>Kyuwhan LEE, Sunghun KIM, Joongsoo Ma (KAIST), Seunghyun LEE (SK Telecom)</i>
04E-02	Multiple Mobile Agents for Data Collection in Overflow Time Based Partitions of Wireless Sensor Networks with Dynamic Deadlines 0043 <i>Pranesh V Kallapur, Niranjana N Chiplunkar (N.M.A.M. Institute of Technology, India)</i>
04E-03	Research on Transmission Method of CDMA Satellite Communication System based on Time Division Duplexing 0102 <i>Xiao yan Xu, Jian jun Wu, Xi Luan, Shu bo Ren, Hai ge Xiang (Peking University, China)</i>
04E-04	Research on Adaptive Transmission of Time Division Duplex Physical Frame in Mobile Satellite System 0202 <i>Shu bo Ren, Jian jun Wu, Xi Luan, Xiao yan Xu, Hai ge Xiang (Peking University, China)</i>
04E-05	e-Discovery Support Tool Design and Implementation of the AGENT Module 0231 <i>Ju Young Kim, Tae Rim Lee, Bon Min Goo, Sang Uk Shin (Pukyong National University, Korea)</i>
04E-06	Context-based Role Engineering for Ubiquitous Computing Environment 0239 <i>Seon-Ho PARK, Jung-Ho Eom, Tai-Myoung Chung (Sungkyunkwan Univ., Korea)</i>
04E-07	Method for the Home Service of Digital Cinema Contents 0501 <i>Jungsoo Lee, Yeongjeong Jeong, Kisong Yoon (ETRI, Korea)</i>
04E-08	Multi-level Intrusion Detection System and Log Management in Cloud Computing 0686 <i>Jun-Ho Lee, Min-Woo Park, Jung-Ho Eom, Tai-Myoung Chung (Sungkyunkwan University, Korea)</i>
04E-09	Human Body Parts Candidate Segmentation using Laws Texture Energy Measures with Skin Color 0702 <i>Byeongcheol Choi, Seungwan Han, Byungho Chung (ETRI, Korea), Jaecheol Ryou Chungnam National University, Korea)</i>
04E-10	Implementation of an impact position display system of golf ball using an image processing in an indoor golf course 0166 <i>Dongwoo KIM, Youngjun Song, Nam Kim, Jaehyeong Ahn (Chungbuk National University, Korea), Jehoon Lee (Kangwon National University, Korea)</i>
Time 16:20 ~ 16:40	
Coffee Break	





## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 15:00 ~ 16:20	
<b>Session 04E : Poster Session II</b>	Room : Phoenix II
Chair : Jin-Dam Mok (ETRI, Korea)	
04E-11	Interactive E-book Contents Authoring system based on MPEG-4 LAsER
0397	<i>Injae Lee, Myungseok Ki, Seongyong Lim, Sanghyun Park, Jihun Cha (ETRI, Korea), Joongyun Lee (SKT, Korea)</i>
04E-12	U-Sketchbook: Mobile Augmented Reality System Using IR Camera
0582	<i>Jae Hyuck Jang, Chang Geun Song, Young Woong Ko, Won Vien park, Sun Jung Kim (Hallym University, Korea)</i>
04E-13	An Efficient Two-Factor User Authentication Framework for Wireless Sensor Networks
0208	<i>Pardeep Kumar, Mangal Sain, Hoon Jae Lee (Dongseo University, Korea)</i>
04E-14	Multipath Channel Parameters based on Indoor Hotspot Channel Measurements at 3.7GHz
0201	<i>Myung-Don Kim, Heon Kook Kwon, Bum Soo Park, Jae Joon Park, Hyun Kyu Chung (ETRI, Korea)</i>
04E-15	Control Method of Checkpoint Node Selection Using a Fuzzy Rule System and Feedback in CHEMAS
0312	<i>Ji won Kim, Soo young Moon, Tae ho Cho (Sungkyunkwan Univ, Korea), Jin Myoung Kim, Won Tae Kim, Seung Min Park (ETRI, Korea)</i>
04E-16	Automotive Hardware Development According to ISO 26262
0054	<i>Seo-Hyun JEON, Jin-Hee Cho, Yangjae Jung, Sachoun Park, Tae-Man Han(ETRI, Korea)</i>
04E-17	Method of enabling a private IP terminal to receive multimedia data
0123	<i>YunKyung HAH (KT, Korea)</i>
04E-18	A Grid Portal for Grid Resource Information Service
0246	<i>Phil Doo Hong, Yong Woo Lee (Seoul Grid Center, Korea)</i>
04E-19	Automated Voice based Home Navigation System for the Elderly and the Physically Challenged
0618	<i>Rajesh Kannan Megalingam, Ramesh Nair, Sai Prakhya (Amrita Vishwa Vidyapeetham, India)</i>

Time 16:20 ~ 16:40	Coffee Break
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 09:00 ~ 10:20	
<b>Session 05A : Wireless Communication Technology V</b>	
Room : Ruby	
Chair : Mallikharjuna Rao (Annacharya P. G College of Computer Studies, India)	
05A-01	An Efficient Wireless Power Transmission System Using Phase Control of Input Electrode Array for Two-dimensional Communication
0111	<i>Takashi Matsuda, Takashi Matsuda, Youiti Kado, Bing Zhang (NICT, Japan)</i>
05A-02	A Simulink-Model of Specialized Processor on the Piecewise-Polynomial Bases
0300	<i>Olim Hidayov (KAIST, Korea), Dhananjay Singh, Bakul Gohel (NIMS, Korea)</i>
05A-03	Research on the Propagation Delay Characteristic of Multi-beam GEO Satellite Communications System
0205	<i>Xi Luan, Jianjun Wu, Xiaoyan Xu, Shubo Ren, Haige Xiang (Peking University, China)</i>
05A-04	Dual Band MIMO Antenna Using a Decoupling Network for WLAN Application
0138	<i>Juman KIM, Minseok HAN, Changho LEE, Jaehoon CHOI (Hanyang University, Korea)</i>
05A-05	Transmit Diversity Scheme with Sounding-based Channel Phase Feedback in OFDMA Systems
0652	<i>Tsung-Yu Tsai, Yao-Liang Chung, Chun-Che Chien, Zsehong Tsai, Hsueh-Jyh Li (National Taiwan University, Taiwan)</i>

<b>Session 05B : Mobile Communications V</b>	
Room : Emerald	
Chair : Kiung JUNG (ETRI, Korea)	
05B-01	Extremely Fast Simulator for Decoding LDPC Codes
0057	<i>Shek Yau, Tak Wong, Francis Lau (Hong Kong Polytechnic University, Hong Kong)</i>
05B-02	Low power, high linearity wideband receiver front-end for LTE application
0169	<i>Nguyen Hoai-Nam, Bae Jeong-Yul, Le Viet-Hoang, Gwak Ki-Uk, Han Seok-Kyun, Lee Sang-Gug (KAIST, Korea)</i>
05B-03	Position Responsive Routing Protocol (PRRP)
0509	<i>Noor Zaman, Azween Abudllah (Universiti Teknologi PETRONAS Malaysia)</i>
05B-04	A Software Framework to Provide Multiple MSISDN across Heterogeneous Networks
0185	<i>Dongcheul Lee, Seungyoul Lee (KT, Korea)</i>
05B-05	A Comparative Study of WiMAX and LTE as the Next Generation Mobile Enterprise Network
0073	<i>Leo Yi, Kai Miao, Adrian Liu (Intel China Research Center, China)</i>

Time 10:20 ~ 10:40	Coffee Break
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 09:00 ~ 10:20	
<b>Session 05C: Game and Multimedia Technologies I</b>	Room : Diamond
Chair : Wen-Ping LAI (Yuan Ze University, Taiwan)	
05C-01	The Analysis of a Fractional Pixels Generated by a Combination of Linear FIR Filters in a Video Codec
0322	<i>Jinwuk Seok, Kisong YOON, Bumho Kim, Jeong-Woo Lee (ETRI, Korea)</i>
05C-02	Automatic Search Space Generation with Hierarchical Adaptive Flood Filled for Simulation and Computer Game in Confined Environment
0401	<i>Sumet Pongphankae, Fung C.C., Wong K.W. (Murdoch University, Australia)</i>
05C-03	Evaluation of MPEG-7 Audiovisual Query Applications
0427	<i>Alaelddin Mohammed (University of Gezira, Sudan), Youan Jiang (Brdata, USA)</i>
05C-04	Speech Training System based on Resonant Frequencies of Vocal Tract
0472	<i>Salai Selvam V, Thulasibai V, Rohini R (Sriram Engineering College, India)</i>
05C-05	Adaptive Rate Control Based on Statistical Modeling in Frame-layer for H.264/AVC
0543	<i>Myoung-Jin Kim, Min-Cheol Hong (Soongsil University, Korea)</i>

<b>Session 05D: Information Security Technology I</b>		Room : Phoenix III
Chair : Eunyoung Lee (Dongduk Woman's University, Korea)		
05D-01	Exploring Wireless Network Security in Auckland City through Warwalking Field Trials	
0372	<i>Nurul Sarkar (AUT University, New Zealand), Abdul Abdullah (UTM, Malaysia)</i>	
05D-02	Implementation of KDM System based on DCI	
0104	<i>Yeonjeong Jeong, Jungsoo Lee, Kisong Yoon (ETRI, Korea)</i>	
05D-03	Classification of LSB and MLSB Stego Images via Shift and Pixel Pairs Irrelevance	
0524	<i>Qian Zhang, Yuefei Zhu, Chunxiang Gu, Nan LIU (Zhengzhou Information Science and Technology Institute, China)</i>	
05D-04	Automated Blocking of Malicious Code with NDIS Intermediate Driver	
0699	<i>Ling Chuan Lee (CyberSecurity Malaysia, Malaysia), Lee Yee Chan, Mahamod Ismail, Kasmiran Jumari (Universiti Kebangsaan Malaysia, Malaysia)</i>	
05D-05	A Novel Mutual Authentication Scheme for Session Initiation Protocol based on Elliptic Curve Cryptography	
0117	<i>R Arshad, N Ikram (National University of Sciences and Technology, Pakistan)</i>	

Time 10:20 ~ 10:40	Coffee Break
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 10:40 ~ 12:00	
<b>Session 06A : Wireless Communication Technology VI</b>	
Room : Ruby	
Chair : Pooria Varahram (University Putra Malaysia, Malaysia)	
06A-01	Design and Implementation of a Hardware-Constrained Cognitive Radio MAC Protocol
0547	<i>Yi-Nan Xu, Ming-Kui Li (Yanbian University, China), Yihu Xu (Chonbuk National University, Korea)</i>
06A-02	Design of QAPM Modulation System with High Power Efficiency and SIMULINK Evaluation
0051	<i>Jae-Hoon Choi, Heung-Gyoon Ryu (Chungbuk National University, Korea)</i>
06A-03	Performance Analysis of Decode-and-Forward scheme Multiple-Hop MIMO Relay System
0206	<i>PHAM Thanh Hiep, KOHNO Ryuji (Yokohama National University, Japan)</i>
06A-04	Performance Analysis of Modulation Schemes in Intra Vehicle Communications (IVC) channel
0432	<i>Gulmira Khuandaga, Asif Iqbal, Kyung Sup Kwak (Inha University, Korea)</i>
06A-05	Power Allocation for Incremental-Selective Decode-and-Forward Cooperative Communications over Rician Fading Channels
0451	<i>Rouhollah Aghajnai Renani (Islamic Azad University, Iran), Reza Saadat, ghasem Mirjalily (University of Yazd, Iran), Mohammad Reza Aref (Sharif University of Technology, Iran)</i>

<b>Session 06B : Mobile Communications VI</b>	
Room : Emerald	
Chair : Dongcheul Lee (KT, Korea)	
06B-01	Performance Evaluation of ns3 Simulator for Mobile Ad Hoc Networks
0625	<i>Viet Thi Minh Do, Lang Xie, Øivind Kure (Norwegian University of Science and Technology, Norway)</i>
06B-02	Q-PMIP: Query-based Proxy Mobile IPv6
0243	<i>Jae-Wan Park, Ji-In Kim, Seok-Joo Koh (Kyungpook National University, Korea)</i>
06B-03	Energy-Efficient Cluster Formation in Heterogeneous Wireless Sensor Networks: A Comparative Study
0360	<i>Dahlila Putri Dahnil, Yaswant Prasad Singh, Chin Kuan Ho (Multimedia University, Malaysia)</i>
06B-04	WVaMode: A Wi-Fi Vehicular ad hoc Mode for the unmanned vehicle
0581	<i>Mingde PIAO, Choon-sung Nam, Dong-Ryeol SHIN (Sungkyunkwan University, Korea)</i>
06B-05	Developing a BDSR scheme to Avoid Black hole Attack based on proactive and reactive architecture in MANETs
0140	<i>Po-Chun TSOU, Yi-Hsuan LIN, Han-Chieh CHAO (National Ilan University, Taiwan), Jian-Ming CHANG (National Dong Hwa University, Taiwan), Jiann-Liang CHEN (Taiwan University of Science and Technology, Taiwan)</i>

Time 12:00 ~ 13:20	Lunch
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 10:40 ~ 12:00	
<b>Session 06C : Game and Multimedia Technologies II</b>	Room : Diamond
Chair : Dipashree Bhalerao (STES, India)	
06C-01	Virtual Studio System for Augmented Reality & Chroma Key Processing
0635	Seoksoo Kim (Hannam University, Korea)
06C-02	Various NMF Analyses for Emotion Recognition
0714	JeongMok HA, Jaiyoun SONG, Hong JEONG (POSTECH, Korea)
06C-03	Evaluation of online Signature Verification features
0105	Ghazaleh Taherzadeh, Roozbeh Karimi, Alireza Ghobadi (Multimedia University, Malaysia), Hossein Modaberan Beh (Soha, Malaysia)
06C-04	A Real-time 3D Image Refinement using Two-line Buffers
0730	Jong-hak Kim, Jun-dong Cho (Sungkyunkwan University, Korea)
06C-05	Digital Special Makeup by Onset Motion Capture
0107	Jong-Sung Kim, Jae-Hean Kim (ETRI, Korea)

<b>Session 06D : Information Security Technology II</b>		Room : Phoenix III
Chair : Dae-Ki Kang (Dongseo University, Korea)		
06D-01	Obfuscated Malicious JavaScript Detection by Causal Relations Finding	
0690	Ismail AL-Taharwa, Ching-Hao Mao, Hsin-Kuo Pao, Kuo-Ping Wu, Christos Faloutsos, Hahn-Ming Lee, Shyi-Ming Chen (NTUST, Taiwan), Albert B. Jeng (Jinwen University of Science and Technology, Taiwan)	
06D-02	Reconstruction Method for Reed-Muller Codes Using Fast Hadamard Transform	
0232	Young Joon Song, In Sik Kang, Hyun Lee (Kumoh National Institute of Technology, Korea)	
06D-03	Trust-Oriented Access Control Based on Sources of Information Flow	
0149	Hui Feng, Weinan Li, Wenchang Shi, Zhaohui Liang, Bin Liang (Renmin University of China, China)	
06D-04	An Enhanced Certificateless Authenticated Key Agreement Protocol	
0529	Razieh Mokhtarnameh, Sin Ban Ho, Nithiapidary Muthuvelu (Multimedia University, Malaysia)	
06D-05	CREDI-crypt: An Improvised Anti-Counterfeiting Technique for Credit Card Transaction System	
0120	SANTOSH HARIHARAN, V NAVEEN KUMAR (Amrita Vishwa Vidyapeetham University, India), MRIGANK ROCHAN (Amrita School of Engineering, India)	

Time 12:00 ~ 13:20	Lunch
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 10:40 ~ 12:00	
<b>Session 06E : Poster Session III</b>	
Room : Phoenix II	
Chair : Jeong-Ju Yoo (ETRI, Korea)	
06E-01	Adaptive Tone-Reservation PAPR Technique with Optimal Subcarriers Allocation Awareness for Multi-User OFDMA Systems
0443	<i>PATTAMA PHOOMCHUSAK, Chaiyod Pirak (KingMongkut University of Technology North Bangkok, Thailand)</i>
06E-02	High Inductance LTCC Based Spiral Inductor with Small Area and High Quality Factor
0316	<i>Ikechi Augustine Ukaegbu, Jamshid Sangirov, Tae-Woo Lee, Hyo-Hoon Park (KAIST, Korea), Kwang-Seong Choi (ETRI)</i>
06E-03	A Study of Bilateral Settlement Game for Differentiated Qualitative Services Networks
0713	<i>Ying-Ren Chien (NTU, Taiwan), Chien-Sheng Chen (Tainan University of Technology, Taiwan), Wen-Hsiung Liu (Aletheia University, Taiwan)</i>
06E-04	The Method for IP Layer Link Aggregation using Flow Information in a Vehicle Mobile Router
0553	<i>Hyeonsik Yoon, Byungjun Ahn (ETRI, Korea)</i>
06E-05	A Fast Automatic Gain Control Scheme for Initial Cell Search in 3GPP LTE TDD System
0098	<i>Jun-Hee Jang, Hyung-Jin Choi (Sungkyunkwan University, Korea)</i>
06E-06	Development of Road Light Gateway with Sensor Network
0394	<i>Sung-Il Hong, Hyen-Sik Lyu, Dal-Hwan Yoon, Chi-Ho Lin (Semyung University, Korea)</i>
06E-07	A scheme to provide Number Portability to Mobile IPTV
0530	<i>Young Sic Jeong, Shin Gak Kang (ETRI, Korea)</i>
06E-08	Seamless Handover Scheme based on SIP in Wireless LAN
0164	<i>Kam Yong Kim, Kyeong Gon Ham, Seong Gon Choi (Chungbuk National University, Korea), Kee Seong Cho (ETRI, Korea)</i>
06E-09	QoS evaluation Based on Extend E-Model in VoIP
0334	<i>Hongli Zhang, Zhimin Gu (Beijing Institute of Technology, China), ZhenQing Tian (Inner Mongolia Normal University, China)</i>
06E-10	Distributed and Parallel Processing of Noise Information for 3D GIS in a U-city
0603	<i>Hyun Kyu Park, Yong Woo Lee, Jong Won Park, Chang Ho Yun (University of Seoul, Korea)</i>

Time 12:00 ~ 13:20	Lunch
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 10:40 ~ 12:00	
<b>Session 06E : Poster Session III</b>	Room : Phoenix II
Chair : Jeong-Ju Yoo (ETRI, Korea)	
06E-11	Automating OS/SW Provisioning for Building Enterprise Data Center
0519	<i>Yong-Ju Lee, Hag-Young Kim (ETRI, Korea), Cheol-Hoon Lee (Chungnam National University, Korea)</i>
06E-12	Towards a Secure Patient Information Access Control in Ubiquitous Healthcare Systems using Identity-based Signcryption
0280	<i>Giovanni Cagalaban (University of Western Visayas, Philippines), Seoksoo Kim (Hannam University, Korea)</i>
06E-13	Classifying Attacks in a Network Intrusion Detection System Based on Artificial Neural Networks
0733	<i>Mohammad Reza Norouzian, Sobhan Merati (Institute for Advanced Studies in Basic Sciences, Iran)</i>
06E-14	Effect of Jamming Technique on the Performance of Direct Sequence Spread Spectrum Modem
0048	<i>Awais Yousaf, Asim Loan (University of Engineering and Technology, Parkistan)</i>
06E-15	A Distributed Intrusion Detection System Against Flooding Denial of Services Attacks
0094	<i>Chuiyi XIE, Shuoshan LUO (Beijing University of Posts and Telecommunication, China), Yizhi ZHANG (Liaoning University of Technology, P.R.China), Yuan BAI (Tianjin University of Technology, P.R.China), Qin XU (Beijing Safe-Code Technology CO., LTD.)</i>
06E-16	A method for Real-time Detecting and Responding to Harmful Traffic
0662	<i>EunJoo Kim (ETRI, Korea)</i>
06E-17	A Study on Effective Hash-based Load Balancing Scheme for Parallel NIDS
0147	<i>Nam-Uk Kim, Min-Woo Park, Seon-Ho Park, Sung-Min Jung, Jung-Ho Eom, Tai-Myoung Chung (SungKyunKwan Univ., Korea)</i>
06E-18	Mechanism for Regenerating CGA Using Threshold Secret Sharing in MANET
0684	<i>Shin-Young Cho, Dong-Min Kang, Hun-Jung Lim, Jung-Ho Eom, Tai-Myoung Chung (Sungkyunkwan University, Korea)</i>
06E-19	Modeling Router Hotspots on Network-On-Chip
0678	<i>Siti Aisah Mat Junos (Universiti Teknikal Malaysia Melaka, Malaysia), Muhammad Nadzir Marsono, Izzeldin Ibrahim (Universiti Teknologi Malaysia)</i>
Time 12:00 ~ 13:20	
Lunch	



## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 13:20 ~ 14:40	
<b>Session 07A : Wireless Communication Technology VII</b>	
Room : Ruby	
Chair : Rafika Ida Mutia (Lund University, Sweden)	
07A-01	Current-Reused Single-Ended Current-Output Multiplier as a Core Circuit in a UWB Pulse Detector
0148	<i>Sigit Yuwono, Chang-jin Jeong, Seok-kyun Han, Sang-gug Lee (KAIST, Korea)</i>
07A-02	PNS Algorithm and FPGA Design of Wireless OFDM System
0071	<i>Chisato Iramina (University of the Ryukyus, Japan), Tomohisa Wada (University of the Ryukyus, Japan), Heung-Gyoon Ryu (Chungbuk National University, Korea)</i>
07A-03	Distributed Uplink Power Control Algorithm for QoS enhancement
0540	<i>Jongrok Park, Hojae Lee, Seonghyun Kim, Sanghoon Lee (Yonsei University, Korea)</i>
07A-04	Power Control in Spontaneously Deployed Wireless LANs
0039	<i>Yalemzewd Negash, Hailu Ayele (Addis Ababa institute of Technology, Ethiopia)</i>
07A-05	Slot Antenna For Frequency Switchable Active Antenna
0557	<i>Harish Kumar, V Kumar Sharma (Bhagwant institute of technology, India), Navdeep Singh, Sarabjeet Singh (Ambedkar National Institute of Technology, India)</i>

<b>Session 07B : Mobile Communications VII</b>	
Room : Emerald	
Chair : AHMED DOOGUY KORA (ESMT, Senegal)	
07B-01	Control Packet Scheduling First for Fast Route Discovery in Tactical MANET
0040	<i>Bosung Kim, Juneyoung Chang, Byeong-hee Roh, Young-Bae Ko (Ajou University, Korea)</i>
07B-02	Co-channel interference and coverage probability of a pilot signal in the IS-95 CDMA channel
0192	<i>Kiung JUNG, Jin Woo HONG, Jong Soo LIM, Hokyom Kim (ETRI, Korea)</i>
07B-03	A Robust Ranging Detection with MAI Cancellation for OFDMA Systems
0490	<i>Chieh-Lung Lin (Telecom Technology Center, Taiwan), Szu-Lin Su (National Cheng Kung University, Taiwan)</i>
07B-04	Mobile WiMAX Coverage Evaluation for Rural Areas of India
0361	<i>Gopal Manna (BSNL, India), Bhavana Jharia (Govt Engineering College, India)</i>
07B-05	A New Source Routing Mechanism in Mobile Ad- Hoc Network
0077	<i>Arash Dana, Mohamad Hadi Babaie Rochi (Islamic Azad University Tehran Branch, Iran), Mahshid Ziyae (Islamic Azad University Karaj Branch, Iran)</i>

Time 14:40 ~ 15:00	Coffee Break
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 13:20 ~ 14:40	
<b>Session 07C: Next Generation Network Technology I</b>	Room : Diamond
Chair : Yong-Geun Hong (ETRI, Korea)	
07C-01	A New Mechanism for Fast Handover between Heterogeneous Networks
0267	<i>Myoung Ju Yu, Seong Gon Choi (Chungbuk National University, Korea)</i>
07C-02	QoS Performance Analysis for VoIP Traffic in Heterogeneous Networks with WIMAX Access
0326	<i>Abdul Haseeb, Velio Tralli (University of Ferrara, Italy)</i>
07C-03	Design and Implementation of Low power Wireless IPv6 Routing for NanoQplus
0237	<i>Jongsoo Jeong, Jaeseok Kim (UST, Korea), Pyeongsoo Mah (ETRI, Korea)</i>
07C-04	A Modified ACO Algorithm for Multicast State Scalability problem based on Multicast Tree Similarity
0488	<i>fangjin ZHU, Hua WANG (Shandong University, China)</i>
07C-05	Design and Implementation of IMS Service Continuity between IPTV and mobile
0590	<i>KwangHee Choi, Won Mo Kim, Jong Koo Kim, Kwang Sik Kim (LG Uplus, Korea)</i>

<b>Session 07D: Information Security Technology III</b>		Room : Phoenix III
Chair : Yong-Hee Jeon (Catholic University of Daegu, Korea)		
07D-01	A Framework of Defense System for prevention of Insider's Malicious Behavior	
0325	<i>Jung ho EOM, Seon ho PARK, Min woo PARK, Tai Myoung CHUNG (SungKyunKwan University, Korea)</i>	
07D-02	Audio Forensic marking using Quantization in DWT-SVD Domain	
0063	<i>De Li (Yanbian University, China), JongWeon Kim (Sangmyung University, Korea)</i>	
07D-03	A Simple Location-dependent Key Generation Method Based on Multiple Antennas for Securing Wireless Communication	
0348	<i>Jianguo ZHANG, Qinye YIN, Pengcheng MU (Xi'an Jiaotong University, China)</i>	
07D-04	Metaware, an Extensible Malware Detection and Removal Toolkit	
0700	<i>Lee Yee Chan, Mahamod Ismail, Kasmiran Jumari (Universiti Kebangsaan Malaysia, Malaysia), Ling Chuan Lee (CyberSecurity Malaysia, Malaysia)</i>	
07D-05	An Intra-Gateway for Entertainment Contents in Digital Home	
0281	<i>Jihyun Park, Jeonghyun Kim, Seongmin Kim, Dowon Nam (ETRI, Korea)</i>	

Time 14:40 ~ 15:00	Coffee Break
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## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 15:00 ~ 16:20	
<b>Session 08A : Wireless Communication Technology VIII</b>	
Room : Ruby	
Chair : Pooria Varahram (University Putra Malaysia, Malaysia)	
08A-01	Improve IPv6 Global connectivity for 6LoWPAN
0477	<i>Dae-In Choi, Jong-tak Park, Hyun-Kook Kahng (Korea University, Korea), Su Yeon Kim (Mobillab, Korea)</i>
08A-02	Min-total Relay Power Allocation Algorithm for Multi-user Cooperative Communication
0137	<i>Rongkai Li, Zhiquan Bai, Dongfeng Yuan (Shandong University, China), Kyungsup Kwak (INHA University, Korea)</i>
08A-03	Application of Exponential Window to Design a Digital Nonrecursive FIR Filter
0023	<i>Vikas Soni, Pankaj Shukla, Mithilesh Kumar (Rajasthan Technical University, India)</i>
08A-04	Wireless Transmission of JPEG 2000 Compressed Video
0268	<i>Masateru Matsuo, Ryo ito, Masayuki Kurosaki, Baiko Sai, Hiroshi Ochi (Kyushu Institute of Technology, Japan), Yoshimitsu Kuroki (Kurume National College of Technology, Japan), Akio Miyazaki (Kyushu Sangyo Univ., Japan)</i>
08A-05	Transmit Power Control Scheme for TV White Space Wireless System
0272	<i>Sang Yun Lee, Mee Kyung Kwon, Seung Hun Lee (Korea Radio Promotion Agency, Korea)</i>

<b>Session 08B : Network Management I</b>	
Room : Emerald	
Chair : Gopal Manna (BSNL, India)	
08B-01	Using and Effective Algorithm to Resolve the Video-on-Demand Service Network Resource Allocation Problem
0136	<i>Somkiat Kitjongthawonkul (Australian Catholic University, Australia), Jesuk Ko (Gwangju University, Korea)</i>
08B-02	QoS-aware Active Queue Management Scheme for Multimedia Services
0127	<i>Hyun Jong Kim, Seong Gon Choi (Chungbuk National University, Korea), Pyung-Koo Park, Ho Sun Yoon (ETRI, Korea)</i>
08B-03	Pre-Processing Directory Structure for Improved RSYNC Transfer Performance
0046	<i>Alireza Ghobadi, Ehsan Haji Mahdizadeh (Multimedia University, Malaysia), Yong Lee Kee, Li Kok Wei (Intel Microelectronics, Malaysia), Mohamad Hossein Ghods (SOHA, Malaysia)</i>
08B-04	Survivability Measure for Multichannel MANET-based Tactical Networks
0721	<i>Kwangsoo Kim, Byeong-hee Roh, Young-Bae Ko (Ajou University, Korea), Woo-Jin Choi, Eui Seung Son (KT, Korea)</i>
08B-05	A Scheme Based on Coexistence of NSIS and RSVP for Realization of End-to-End QoS Provisioning
0577	<i>Ping Wang, Mei Song, Yong Zhang, Li Wang (Beijing University of Posts and Telecommunications, China)</i>

Time 16:20 ~ 16:40	Coffee Break
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## TECHNICAL SESSIONS

Day 2 : February 14 (Monday)

Time 15:00 ~ 16:20	
<b>Session 08C: Next Generation Network Technology II</b>	
Room : Diamond	
Chair : Yong Woo LEE (University of Seoul, Korea)	
08C-01	Analysis of Vertical Handover Latency for IEEE 802.21-enabled Proxy Mobile IPv6
0712	<i>Heecheol Song, Jongjin Kim, Jaeki Lee, Hwang Soo Lee (KAIST, Korea)</i>
08C-02	On a New Global Catastrophic ICT Model
0377	<i>Dipashree Bhalerao (STES, India), Tahir Riaz, Michel Jensen, Ole Brun Madsen, Ramjee Prasad (Aalborg University, Denmark)</i>
08C-03	Analysis of the usage of a logical interface in PMIPv6
0533	<i>Yong-Geun Hong, Hyoung-Jun Kim, Tchanghee Hyun (ETRI, Korea), Joo-Sang Youn (Dong-Eui University, Korea)</i>
08C-04	Video Quality Guarantee to Mobile Users Across WLAN/3G Networks
0407	<i>Claudio Monteiro (Federal Institute of Education of Tocantins, Brazil), Paulo Gondim (University of Brasilia, Brazil)</i>
08C-05	A Study on Implementation issues of Number Portability in IMS networks
0196	<i>Giseop Geum, Nakpo Kim, Yungha Ji, Taehyo Ahn (KT, Korea)</i>
<b>Session 08D: Network Security Technology</b>	
Room : Phoenix III	
Chair : Dae-Ki Kang (Dongseo University, Korea)	
08D-01	An Adaptive Cross-Layer Design Approach for Network Security Management
0355	<i>I-Hsun Chuang, Chou-Ting HSIEH, Yau-Hwang KUO (National Cheng Kung University, Taiwan)</i>
08D-02	Protecting Cookies from Cross Site Script Attacks Using Dynamic Cookies Rewriting Technique
0579	<i>Rattipong Putthacharoen, Assoc. Prof. Pratheep Bunyatnparat (King Mongkut's Institute of Technology Ladkrabang, Thailand)</i>
08D-03	A Secure and Practical Key Management Mechanism for NFC Read-Write Mode
0332	<i>Hsu-Chen Cheng, Tian-Yow Chi, Siao-Yun Wei (Chinese Culture University, Taiwan), Wen-Wei Liao (National Taiwan Normal University, Taiwan)</i>
08D-04	Dynamic Trust Model for Reliable Transactions in Multi-agent Systems
0638	<i>Anupam Das, M. Mahfuzul Islam (BUET, bangladesh), Golam Sorwar (Southern Cross University, Bangladesh)</i>
08D-05	Network Operation Cost Model to Achieve Efficient Operation and Improving Cost Competitiveness
0453	<i>EunJoo KWAK, GiEung KIM, JaeHyung YOO (KT, Korea)</i>
Time 16:20 ~ 16:40	
Coffee Break	



## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 15:00 ~ 16:20	
<b>Session 08E : Poster Session IV</b>	Room : Phoenix II
Chair : Yoon-Seok Ko (National Information Society Agency, Korea)	
08E-01	Performance Analysis of a Hybrid SEC/MRC Diversity Scheme over Rayleigh Fading 0195 Hoyong Lee, Sang Kyu Park, Yujae Song (Hanyang University, Korea)
08E-02	Throughput Derivation for Analysis of Interference of the System with Interference Avoidance Function in 2.4GHz ISM Band 0442 Seonhui Yun, Hokyung Son, Heonjin Hong (ETRI, Korea), Jaemin Ahn (Chungnam National Univ., Korea)
08E-03	An Efficient Adaptive FEC Algorithm for Short-Term Quality Control in Wireless Networks 0177 Jeng-Wei Lee, Yau-Hwang Kuo (National Cheng Kung University, Taiwan), Chao-Lieh Chen (NKFUST, Taiwan), Mong-Fong Horng (KUAS, Taiwan)
08E-04	Effect of Network factors on VoIP 0395 Jongkuk Lee, Kidong Nam (ETRI, Korea), Daeyoung Kim (Chungnam National University, Korea)
08E-05	Adaptive Vector Length Interpolation for Whole-Frame Error Concealment of Temporal MDC 0544 Wen-Ping LAI, En-Cheng LIOU (Yuan Ze University, Taiwan)
08E-06	The Performance Analysis of SVC image Service for Mobile IPTV System 0250 Young-il Kim, Yong Su Lee, Park Dae Geun, Chun Sun Sim (ETRI, Korea), Park Young Soo (Pusan National University, Korea)
08E-07	UAMdroid: A User Authority Manager Model for the Android Platform 0584 Zemin Liu, Choon-Sung Nam, Dong Ryeol Shin (Sungkyunkwan University, Korea)
08E-08	Cloud Computing Platform for GIS Image Processing in U-city 0589 Jong Won Park, Chang Ho Yun, Yong Woo LEE (University of Seoul, Korea), Shin-gyu KIM, Heon Y. Yeom (Seoul National University, Korea)
08E-09	Design, Implementation and Performance Evaluation of a Novel PESS (Performance Enhanced Software Streaming) Technology 0525 Chang Hun O (Ksoft, Korea), Yong-Hee Jeon (Catholic University of Daegu, Korea)
08E-10	Android-based SoD Client for Remote Presentation 0055 Kyuchang Kang, Kiryong Ha, Jeunwoo Lee (ETRI, Korea)
Time 16:20 ~ 16:40	
Coffee Break	



## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 15:00 ~ 16:20	
<b>Session 08E : Poster Session IV</b>	Room : Phoenix II
Chair : Yoon-Seok Ko (National Information Society Agency, Korea)	
08E-11	Signal Propagation Scenario Simulator for Planning Measurement Points to Improve Positioning Performance 0629 <i>Uzair Ahmad, Choi Wan Sik, Sangjoon Park, Dong-Sun Lim (ETRI, Korea)</i>
08E-12	Multi-tenant Supporting Online Application Service System Based On Metadata Model 0592 <i>Byeong-Thaek Oh, Hee-Sun Won, Sung-Jin Hur (ETRI, Korea)</i>
08E-13	Level 2 SaaS Platform and Platform Management Framework 0271 <i>Jihyun Lee, Sung Jin Hur (ETRI, Korea)</i>
08E-14	Stereo-based Road Obstacle Detection and Tracking 0716 <i>Intae Na, Sang Hyun Han, Hong Jeong (POSTECH, Korea)</i>
08E-15	Enhancement of Trellis-Based Stereo Matching Algorithm Using Disparity of the Upper Scan-line 0715 <i>Yong Gyu KANG, Won Suk LEE, Hong JEONG (POSTECH, Korea)</i>
08E-16	A Three-Layer View Model of OSS: Toward Understanding of Diversity of OSS 0082 <i>Toshihiko Yamakami (ACCESS, Japan)</i>
08E-17	Research and Survey of Low-rate Denial of Service Attacks 0091 <i>Zhu QIAO, Yizhi ZHANG (Liaoning University of Technology, P.R.China, China), Chuiyi XIE (Beijing University of Posts and Telecommunications, China)</i>
08E-18	Impact of Utilizing Forecasted Network Traffic for Data Transfers 0549 <i>Kar Hoong Ng, Kuan Hoong Poo, Ian K. T. Tan, Nithiapidary Muthuvelu (Multimedia University, Malaysia), Lee Ching Seng (Penang Design Center, Malaysia)</i>
Time 16:20 ~ 16:40	
Coffee Break	



## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 16:40 ~ 18:00	
<b>Session 09A : Wireless Communication Technology IX</b>	
Room : Ruby	
Chair : Jeong-Ju Yoo (ETRI, Korea)	
09A-01	Performance Analysis of Parallel Acoustic Communication in OFDM-based System
0001	<i>Junyeong Bok, Heung-Gyoon Ryu (Chungbuk National University, Korea)</i>
09A-02	Non-Linear Precoding for Next Generation Multi-User MIMO Wireless LAN Systems
0454	<i>Leonardo Lanante Jr., Masayuki Kurosaki, Hiroshi Ochi (Kyushu Institute of Technology, Japan)</i>
09A-03	Improved DCM for PAPR Reduction in MB-OFDM Systems
0197	<i>Yunsung Kim, Sang Kyu Park, Mangue Choi (Hanyang University, Korea)</i>
09A-04	Performance Analysis of Dual-hop UWB System with Non-regenerative Relaying Scheme
0711	<i>Zhiquan Bai, Yongjie Xu, Dongfeng Yuan (Shandong University, China), Bin Shen, Kyungsup Kwak (INHA University, Korea)</i>
09A-05	An Effective Scheme for Optical Doppler Shift Alleviation in Intelligent Transportation System Integrating Visible Light Communication
0728	<i>YING YI, Peixin Li, Changping Li, Cesar Azurdia (Kyung Hee University, Korea)</i>

<b>Session 09B : Network Management II</b>	
Room : Emerald	
Chair : Rajendra Prasad Mahajan (IPS Academy, India)	
09B-01	An Alarm Correlation Algorithm for Network Management Based on Root Cause Analysis
0080	<i>Dae Sun KIM, Hiroyuki SHINBO, Hidetoshi YOKOTA (KDDI R&amp;D Labs, Japan)</i>
09B-02	Voice Call Capacity Model for Hybrid Multi-Channel Protocol over Multi-Hop Multi-Channel Multi-Radio Wireless Mesh Networks
0701	<i>Sunghun Kim, Joongsoo Ma (KAIST, Korea), MyungIn Ji (ETRI, Korea)</i>
09B-03	Case study of an anomalous traffic detection on the aggregation points of enterprise network
0444	<i>yoohee cho, yihan kim (KT, Korea)</i>
09B-04	CORE: An Accurate Congestion Detection Method in IEEE 802.11 Wireless Mesh Networks
0079	<i>Jae-Yong Yoo, JongWon Kim (Gwangju Institute of Science &amp; Technology, Korea)</i>
09B-05	MRMT: An Algorithm of Matching Resources for Multi-Tasks
0114	<i>Min Yan, Jiantao Zhou (Inner Mongolia University, China)</i>



## TECHNICAL SESSIONS

Day 3 : February 15 (Tuesday)

Time 16:40 ~ 18:00	
<b>Session 09C: Next Generation Network Technology III</b>	
Room : Diamond	
Chair : Jianming Liu (State Grid Information & Telecommunication Co., China)	
09C-01	A Multicast Scheme for provision of Seamless Service in Proxy Mobile IPv6 Networks
0227	<i>Jongmin Kim, Hwasung Kim (Kwangwoon University, Korea), Ilkyeun Ra (University of Colorado Denver, USA)</i>
09C-02	The Impact of the Average Packet Arrival Rate on the Drop-Mark Probability of the Fast Congestion Notification (FN) Mechanism
0026	<i>Mohammed Kadhum, Suhaidi Hassan (Universiti Utara Malaysia, Malaysia)</i>
09C-03	Flow-based Performance Enhancements of SAGE Visualcasting using OpenFlow Programmable Networking
0216	<i>Sungho Shin, Namgon Kim, Namgon Lucas Kim, JongWon Kim (GIST, Korea)</i>
09C-04	A Study on the delay of streaming packets during IP handover between heterogeneous networks
0551	<i>Tae Wan KIM, Han Gyoo KIM (LG Uplus Corp., Korea)</i>
09C-05	Rural BcN Projects for Solving Digital Divide
0448	<i>Hyongsoon Kim, Sang-Ug Kang, Kwang-Taek Ryu (National Information Society Agency, Korea), Eunyoung Lee (Dongduk Women's University, Korea)</i>

<b>Session 09D: VoIP Technology</b>	
Room : Phoenix III	
Chair : Thomas Byeongnam Yoon (Kyeonggi University, Korea)	
09D-01	VoIP System based on Asterisk for Enterprise Network
0059	<i>Fumikazu Iseki, Moo Wan KIM, Yuki Sato (Tokyo University of Information Sciences, Japan)</i>
09D-02	Solving Interoperability Problem of SIP, H.323 and Jingle with a Middleware
0597	<i>Rossi Kamal, Muhammad Siddiqui, Choong Hong (Kyung Hee University, Korea)</i>
09D-03	An Investigation into the Effect of Security on Reliability and Voice Recognition System in a VoIP Network
0007	<i>Ohnmar Nhway (University of Computer Studies, Myanmar)</i>
09D-04	Quadrant Based Intelligent Energy Controlled Multicast Algorithm for Mobile Ad Hoc Networks
0122	<i>Farukh Rahman, Mark Gregory (RMIT University, Australia)</i>
09D-05	MOBILE IPV6 FAST HANDOVER TECHNIQUES
0435	<i>Cong Hung Tran (Posts &amp; Telecoms. Institute of Technology, Viet Nam), Thi Thuy Van Duong (Ton Duc Thang University, Viet Nam)</i>



## TECHNICAL SESSIONS

Day 4 : February 16 (Wednesday)

Time 09:00 ~ 10:20	
<b>Session 10A : Wireless Communication Technology X</b>	
Room : Ruby	
Chair : Heung-Gyoon Ryu (Chungbuk National University, Korea)	
10A-01 0118	Iterative Noncoherent Detection of Coded Differential Space-Time Modulation in Rayleigh Fading Channels <i>Ziyan Jia, Kaori Minemura, Shiro Handa, Fumihito Sasamori (Shinshu University, Japan)</i>
10A-02 0032	Analysis and comparison on roughness at millimetre wave <i>Young-Keun Yoon, Myoung-Won Jung, JongHo Kim (ETRI, Korea)</i>
10A-03 0382	A Detection Scheme based on Matrix Partition for MIMO Signal with Distributed Antennas <i>chan yun, xia wang, Lei wang (xi'an jiaotong university, China)</i>
10A-04 0462	A Guide to Channel Assignment and Antenna Placement in IEEE 802.11 Based Multi-channel Multi-radio Wireless Networks <i>Doyoung JUNG, Yonggyu KIM, Joongsoo MA (KAIST, Korea)</i>
10A-05 0734	Design and Implementation of Low Cost Microwave Full Duplex System based on WiFi Cards for Transmission over Long Distance <i>KORA Ahmed Dooguy, NGUENGA TEZO Valery (ESMT, Senegal)</i>

<b>Session 10B : System &amp; Software Engineering I</b>	
Room : Emerald	
Chair : Buddhika Siddhisena (Thinkcube Systems (Pvt.) Ltd., Sri Lanka)	
10B-01 0081	A Two-dimensional Classification Model of OSS: Towards Successful Management of the Evolution of OSS <i>Toshihiko Yamakami (ACCESS, Japan)</i>
10B-02 0156	A method for optimizing communication paths in distributed systems <i>Martin Dam, Jens Myrup Pedersen (Aalborg University, Denmark)</i>
10B-03 0160	Metric Suite for Assuring the Quality of ERP Implementation and Development <i>Jarallah Ghamdi (Ministry of Education, Saudi Arabia), Zeeshan Muzaffar (King Fahd University of Petroleum and Minerals, Saudi Arabia)</i>
10B-04 0588	Hybrid Quantum Inspired Neural Model for commodity Price Prediction <i>Rajendra Prasad Mahajan (School of Computer Science, India)</i>
10B-05 0367	A Reliable Framework for Adaptive Scientific Workflow Management Systems Based on SOA <i>Alireza Azimi (Islamic Azad University, Sari Branch, Iran), Saeed Parsa (iran university science and technology, Iran)</i>

Time 10:20 ~ 10:40	Coffee Break
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## TECHNICAL SESSIONS

Day 4 : February 16 (Wednesday)

Time 09:00 ~ 10:20	
<b>Session 10C : Digital Broadcasting Technology</b>	
Room : Diamond	
Chair : Chin-Ho LEE (Chunghwa Telecom Co. Taiwan)	
10C-01	Symbol Timing Synchronization for ISDB-T System in Multipath Fading Channel
0460	<i>Nico Surantha, Tatsumi UWAI, Yuhei Nagao, Masayuki Kurosaki, Hiroshi Ochi (Kyushu Institute of Technology, Japan)</i>
10C-02	A Low-Power Current-Reused Folded Cascode Harmonic Rejection Mixer for DVB-T Tuner
0381	<i>Chang-Jin Jeong, Yang Sun, Dae-Young Yoon, Seok-Kyun Han, Sang-Gug Lee (KAIST, Korea)</i>
10C-03	Theoretical Design and FPGA Implementation of the Baseband Transceiver for the HD Radio FM System
0679	<i>Lih-Chang Wung, Le-Wei Lin, Szu-Lin Su, Yung-Chuan Lin (National Cheng Kung University, Taiwan), Gene C.H. Chuang (ITRI, Taiwan)</i>
10C-04	A Multichannel Downstream Receiver Supporting Channel Bonding in HFC Network
0221	<i>Jae Ho LEE, Dong Joon CHOI, Soo In LEE (ETRI, Korea), Whan Woo KIM (Chungnam National University, Korea)</i>
10C-05	DVB-S2 LDPC Finite-Precision Decoder
0131	<i>Sherif Welsen (Ain-Shams University, Egypt)</i>

<b>Session 10D : Green IT Technology</b>	
Room : Phoenix III	
Chair : Young-Ro Lee (National Information Society Agency, Korea)	
10D-01	Smart Power Outlets with Cross-layer Communication
0180	<i>Yukio Hiranaka, Yusuke Sato, Toshihiro Taketa, Shinichi Miura (Yamagata University, Japan)</i>
10D-02	An Efficient Parallel SSHI Rectifier for Piezoelectric Energy Scavenging Systems
0065	<i>Xuan-Dien DO, Younghun KO, Huy-Hieu NGUYEN, Huy-Binh LE, Sang-Gug LEE (KAIST, Korea)</i>
10D-03	Greener ICT: Feasibility of Successful Technologies From Energy Sector
0324	<i>Vineetha Paruchuri (RV College of Engineering, India)</i>
10D-04	An Comparator Based Active Rectifier for Vibration Energy Harvesting Systems
0174	<i>Yang Sun, In-young Lee, Chang-jin Jeong, Sang-gug Lee, Seok-kyun Han (KAIST, Korea)</i>
10D-05	Implement of An Efficient System to Reduce Power Consumption
0655	<i>Yi-Hsuan LIN, Hsin-Hung CHO, Po-Chun TSOU, Han-Chieh CHAO (National Ilan University, Taiwan), Jian-Ming CHANG (National Dong Hwa University, Taiwan)</i>

Time 10:20 ~ 10:40	Coffee Break
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## TECHNICAL SESSIONS

Day 4 : February 16 (Wednesday)

Time 10:40 ~ 12:00	
<b>Session 11A : e-Commerce and m-Commerce</b>	
Room : Ruby	
Chair : Lakmal Warusawithana (Thinkcube Systems (Pvt.) Ltd., Sri Lanka)	
11A-01	SMS Text Messaging: A Ubiquitous Tool for Cheaper Medicine in the Philippines
0350	<i>Simonette Alzona Nisperos, Yoshiyori Urano (Waseda University, Japan)</i>
11A-02	Application Development With J2ME For Mobile Phone
0538	<i>S. N. Zabri, L. Salahuddin, M. Mohd Said (Universiti Teknikal Malaysia Melaka, Malaysia), A. H. Awang (Universiti Teknologi MARA, Malaysia)</i>
11A-03	Secure Quick Response-Payment(QR-Pay) System using Mobile Device
0265	<i>jae-sik lee, chang-hyun cho, moon-seog jun (SoongSil University, Korea)</i>
11A-04	The Evaluation of M-Commerce Interface on Smart Phone in Thailand
0210	<i>Arin Muadthong, Rattanaporn Limniramol, Nagul Cooharajanone (Chulalongkorn University, Thailand), Tetsuro Kobayashi, Hitoshi Okada (National Institute of Informatics, Japan)</i>
11A-05	The impact of customer's affective trait on e-service quality and satisfaction - travel website cases
0263	<i>Wei Chen Tsai (Aletheia University, Taiwan)</i>

<b>Session 11B : System &amp; Software Engineering I</b>	
Room : Emerald	
Chair : Jarallah Ghamdi (Ministry of Education, Saudi Arabia)	
11B-01	Unique IDentification (UID) based model for the Indian Public Distribution System (PDS) implemented in Windows Embedded CE
0358	<i>Amit Krishnan, Abhishek Vedamoorthy, Kaushik Raju (Mumbai University(VIT), India)</i>
11B-02	Analysis of Human Factors in Software Application Design for Effective User Experience
0109	<i>Sami Abduljalil, Dae-Ki Kang (Dongseo University, Korea)</i>
11B-03	Quality Assurance Model Capturing ERP Implementation Facets through RVRA Services
0161	<i>Jarallah Ghamdi (Ministry of Education, Saudi Arabia), Zeeshan Muzaffar (King Fahd University of Petroleum and Minerals, Saudi Arabia)</i>
11B-04	The Enterprise 2.0 adoption process: a participatory design approach
0495	<i>Anna Bruno (University of Salento, Italy), Palmalisa Marra, Leonardo Mangia (Links Management and Technology S.p.a., Italy)</i>
11B-05	Measures of Structural Complexity and Service Autonomy
0552	<i>Ali Rostampour, Ali Kazemi, Fereidoon Shams, Pooyan Jamshidi, Ali Nasirzadeh Azizkandi (Shahid Beheshti University, Iran)</i>



## TECHNICAL SESSIONS

Day 4 : February 16 (Wednesday)

Time 10:40 ~ 12:00	
<b>Session 11C : IPTV Technology</b>	Room : Diamond
Chair : Francis Lau (Hong Kong Polytechnic University, Hong Kong)	
11C-01	Telco IPTV Growth Strategy in Taiwan
0096	<i>Chin-Ho LEE (Chunghwa Telecom Co. Taiwan), Hung-Chang CHIU (National Tsing Hua University, Taiwan)</i>
11C-02	Demand Forecasting and Strategies for the Successfully Deployment of the Smart TV in Korea
0510	<i>MoonKoo Kim, JongHyun Park (ETRI, Korea)</i>
11C-03	An efficient group rekey scheme for P2P IPTV DRM system
0168	<i>Yuan ZHANG, Yongfeng HUANG, Jian YUAN (Tsinghua University, China)</i>
11C-04	A Study on Frame Encryption for Protecting IPTV Contents
0228	<i>Boseung Kim, Jongseok Choi, Jeongjai Kim, Yongtae Shin (Soongsil University, Korea)</i>
11C-05	Delivering a personalized video service using IPTV
0458	<i>Zelalem Shibeshi, Shange Ndakunda, Alfredo Terzoli, Karen Bradshaw (Rhodes University, South Africa)</i>

<b>Session 11D : ITS and LBS Technologies</b>		Room : Phoenix III
Chair : Rajendra Prasad Mahajan (IPS Academy, India)		
11D-01	A Hybrid Traffic Geographic Routing with Cooperative Traffic Information Collection Scheme in VANET	
0311	<i>Jeng-Wei Lee, Chun-Chih Lo, Shih-Pu Tang, Yau-Hwang Kuo (Nation Cheng Kung University, Taiwan), Mong-Fong Horng (KUAS, Taiwan)</i>	
11D-02	Implementation of DSRC Mobile MAC for VANET	
0720	<i>sang-woo chang, Jin-soo Jung, Jin Cha, Sang-sun Lee (Hanyang University, Korea)</i>	
11D-03	Smart Ride Share with Flexible Route Matching	
0249	<i>Chung-Min Chen, David Shallcross (Telcordia Technologies, USA), Yung-Chien Shih, Yen-Ching Wu, Sheng-Po Kuo, Yuan-Ying Hsu, Yuhsiang Holderby, William Chou (Telcordia Applied Research Center, Taiwan)</i>	
11D-04	Test-bed Design for Evaluation of Intelligent Transportation Systems and Intelligent Vehicle Systems	
0563	<i>Jong-Woon Woo (Daegu-Gyeongbuk Automotive Parts Foundation, Korea), Seon-Bong Lee (Keimyung University, Korea)</i>	
11D-05	ETC development pushes combination of RFID and ITS	
0667	<i>Wei Du, Wei Chen (Southwest Jiaotong University, China)</i>	



## TECHNICAL SESSIONS

### Day 4 : February 16 (Wednesday)

Time 10:40 ~ 12:00	
<b>Session 11E : Poster Session V</b>	
Room : Phoenix II	
Chair : Myung-Won Song (National Information Society Agency, Korea)	
11E-01	Improving Localization Accuracy Using Signal Attenuation due to Neighbour signal interference in Wireless Sensor Networks
0296	<i>Kyounghwa Lee, Boseung Kim, Hyeopgeon Lee, Yongtae Shin (Soongsil University, Korea)</i>
11E-02	Multipath Characteristics of MIMO Channel at the UHF band for Wireless System in the Urban Area
0374	<i>Myoung-Won Jung, Young Keun Yoon, Jong Ho Kim, Heon Jin Hong (ETRI, Korea)</i>
11E-03	Trends in Rain Attenuation Model in Satellite System
0532	<i>Kyung soo Choi, Jae Hoon Kim, Do-Seob Ahn (ETRI, Korea), Jeong Ki Pack, Nam Ho Jeong (Chungnam National University, Korea)</i>
11E-04	An Improved Scheme for Reducing Handover Latency in Heterogeneous Networks
0292	<i>Myoung Ju Yu, Seong Gon Choi (Chungbuk National University, Korea), Hwa Suk Kim, Kee Seong Cho (ETRI, Korea)</i>
11E-05	Design of Video Streaming Service Quality Control System using Available Bandwidth Information
0128	<i>Hyun Jong Kim, Seong Gon Choi (Chungbuk National University, Korea)</i>
11E-06	Provision of U-city Web Services Using Cloud Computing
0594	<i>SEUNG WOO RHO, CHANG HO YUN, YONG WOO LEE (University of Seoul, Korea)</i>
11E-07	A study on the transmission method for the DMB filecasting service
0480	<i>Ji Hoon Choi, Jihun Cha (ETRI, Korea)</i>
11E-08	A Bayesian Network Model for User's Preference Estimation of Personalized TV Service
0528	<i>Han-kyu Lee, Jihun Cha (ETRI, Korea), Munchurl Kim (KAIST, Korea)</i>
11E-09	Event-driven Open Service Platform Based Remote Healthcare System
0028	<i>Jin-Neng Wu, Ping-Yu Chen, Nien-Chin Wu, Yu-Chang Chao (Industrial Technology Research Institute, Taiwan)</i>
11E-10	Role of Information Systems Architecture in E-Governance: The Case of Watershed Management in India
0064	<i>HAREKRISHNA MISRA (INSTITUTE OF RURAL MANAGEMENT ANAND, India)</i>



## TECHNICAL SESSIONS

### Day 4 : February 16 (Wednesday)

Time 10:40 ~ 12:00	
<b>Session 11E : Poster Session V</b>	Room : Phoenix II
Chair : Myung-Won Song (National Information Society Agency, Korea)	
11E-11	Design a Computer Adaptive Cubic Enumeration Test based on Virtual Item Bank Theory 0329 Wen-Wei Liao, Rong-Guey Ho (National Taiwan Normal University, Taiwan)
11E-12	A Web2.0 Imitation (Copy a Painting) Learning Project of Art Education via e-Learning in Taiwan 0333 Hsu-Chen Cheng, Siao-Yun Wei (Chinese Culture University, Taiwan), Wen-Wei Liao (National Taiwan Normal University, Taiwan)
11E-13	Security Issues Concern For E-Learning By Saudi Universities 0506 Shakeel Ahmed, Khalid Buragga (King Faisal University, Saudi Arabia), Ashwani Ramani (Devi Ahilya Vishwavidyalaya, Saudi Arabia)
11E-14	An Empirical Analysis to Strengthen the Knowledge Management Capability in Korea SMEs 0512 MoonKoo Kim, JongHyun Park (ETRI, Korea), JongHyun Paik (TTA, Korea)
11E-15	Advanced Network Based Wireless, Single PMS for Multiple-Patient Monitoring 0617 Rajesh Kannan Megalingam, Akhil Sudhakaran, Denny Jacob, Vineeth Radhakrishnan, Deepak Unnikrishnan (Amrita Vishwa Vidyapeetham, India)
11E-16	Compositive Context Information Design and Model Approach for Adaptive Service Decision 0649 Sukyoung Kim, Eung-Ha Kim, Youngll Choi (ETRI, Korea)
11E-17	Generations of OSS in Evolutionary Paths:Toward an Understanding of where OSS is Heading 0083 Toshihiko Yamakami (ACCESS, Japan)
11E-18	A Method of Bit-rate Control within Macro-blocks using Information of Coded Block Pattern in a Video Codec 0351 Jinwuk Seok, Kisong YOON, Bumho Kim, Jeong-Woo Lee (ETRI, Korea)
11E-19	A Tracker-based P2P System for Live Multimedia Streaming Services 0493 Haesun Byun, Meejeong Lee (Ewha Womans University, Korea)
11E-20	Multi-Frequency Scenario within UMTS/3G 0665 Muhammad Arshad, N M Saad, Nasrullah Armi, M Shuja uddin (Universiti Teknologi PETRONAS, Malaysia), Farhan Ahmed Siddqui (University of Karachi, Pakistan)
11E-21	Summarizing Text By Ranking Text Units According To Shallow Linguistic Features 0313 Pankaj Gupta, Vijay Shankar Pendluri (Wipro Technologies, India)
11E-22	DESIGN and IMPLETATION of KEYSTREAM GENERATOR with IMPROVED SECURITY 0261 Vijay Shankar Pendluri, Pankaj Gupta (Wipro Technologies, India)

No	Name	Organization
1	Abhishek Joshi	Seoul National University
2	Adisorn Sirikham	Rajamangala University of Technology Krungthep
3	Ali Tufail	Ajou University
4	Alireza Ghobadi	Multimedia University
5	ArupBhattacharjee	NIT Silchar
6	AuristelaSilva	Federal University of Pernambuco
7	Bao Vo Nguyen Quoc	Posts and Telecommunications Institute of Technology
8	Brownson ObaridoaObele	Information and Communications University
9	Chan-ho An	Yonsei University
10	Che-Sheng Chiu	Chunghwa Telecom Laboratories
11	Christian Esteve Rothenberg	University of Campinas
12	Chulhyun Park	Seoul National University
13	Chung,Byung Ho	ETRI
14	Chun-Hsin Wang	Chung Hua University
15	Derek Pao	City University of Hong Kong
16	Dhananjay Singh	Dongseo University
17	Dongkyu Kim	Yonsei Univ.
18	Dong-Min Seol	ETRI
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20	Dr. Abdallah Handoura	Computer Science department
21	Dr. Ahmet Kaplan	Turksat
22	Dr. Altair Santin	PUCPR
23	Dr. Arash Dana	Islamic Azad university
24	Dr. Bin Shen	Telecommunication Engineering Lab
25	Dr. ByungKyu Kim	National Information Society Agency
26	Dr. Changin Suh	Soongsil University
27	Dr. Chawalit Benjangkprasert	King Mongkut's Institute of Technology Ladkrabang,
28	Dr. Cheol-Sun Park	Agency for Defense Development
29	Dr. Chirawat Kotchasarn	RMUTT
30	Dr. Chunming Zhao	N/A
31	Dr. Cuibo Yu	Beijing University of Posts and Telecommunications
32	Dr. Dae Won Kim	ETRI
33	Dr. Dong Kyoo Kim	ETRI
34	Dr. Gyu Myoung Lee	ICU
35	Dr. heechang chung	National Information Society Agency
36	Dr. Hong Son Nguyen	N/A
37	Dr. Hoon Jae Lee	Dongseo University
38	Dr. HS Bahn	Focal Point
39	Dr. Hsien-Chou Liao	Chaoyang University of Technology
40	Dr. Hyeong-Ho Lee	ETRI



## Reviewer Lists

No	Name	Organization
41	Dr. Hyung-soon Kim	National Information Society Agency
42	Dr. Jaegon Kim	Korea Aerospace University
43	Dr. JongWon Kim	GIST
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45	Dr. kyeong kang	University of Technology Sydney
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51	Dr. Mamdouh Gouda	Misr University for Science and Technology
52	Dr. Meejeong Lee	Ewha Womans University
53	Dr. Min Chen	University of British Columbia
54	Dr. Ming-Shen Jian	Shu-Te University
55	Dr. Mitch Haspel	N/A
56	Dr. Mohamed M. A. Moustafa	N/A
57	Dr. Moon Kyeong-Deok	ETRI
58	Dr. Myung-Won Song	National Information Society Agency
59	Dr. Nakjung Choi	Seoul National University
60	Dr. Okgee Min	ETRI
61	Dr. Pasi Ojala	N/A
62	Dr. Pooria Varahram	University Putra Malaysia
63	Dr. Rashid A. Saeed	Wireless Communication Lab
64	Dr. Sang-Chul Shin	RFID/USN Center
65	Dr. Seokjoo Shin	Chosun University
66	Dr. Seon-Ho Park	Sungkyunkwan University
67	Dr. Sharifah Kamilah Yusof	Universiti Teknologi Malaysia
68	Dr. Sherif Samir Ahmed EL-Badawy	Alexandria University
69	Dr. Sung Moon Shin	Next Generation Mobile Communications Forum
70	Dr. Sung-Ho Oh	Korea Research Institute for Human Settlements
71	Dr. Sunmoo Kang	National Information Society Agency
72	Dr. Tae-Gyu Lee	KITECH
73	Dr. Takahiro Matsumoto	Yamaguchi University
74	Dr. vahid meghdadi	ENSIL, University of Limoges
75	Dr. Vasaka Visoottiviseth	Mahidol University
76	Dr. Wanming Luo	CNIC, Chinese Academy of Sciences
77	Dr. Wei-Tsung Su	National Cheng Kung University
78	Dr. Wilaiporn Lee	KMUTNB University
79	Dr. Woo-Jin Byun	ETRI
80	Dr. Xixin Cao	Peking University



## Reviewer Lists

No	Name	Organization
81	Dr. Xuena Peng	Northeastern University
82	Dr. Yeonsoo Kim	Central Research Lab., KT
83	Dr. Yongpan Liu	Tsinghua University, Beijing, China
84	Dr. Yong-Sik Choi	Dept. of Computer Sci&Eng/University of Incheon
85	Dr. Young-Ro Lee	National Information Society Agency
86	Dr. Yuexian Zou	Shenzhen Graduate School of Peking University
87	Dr. Yukinobu Fukushima	Okyama Univ.
88	Dr. Zhi-Qiang Yao	South China University of Technology
89	Eun-Hee Shin	Hanyang University
90	Fateme Khalili	KNTUniversity
91	Feng Cheng	Hasso Plattner Institute
92	Guanbo Zheng	Univ of Texas at Dallas
93	H K Lau	The Open University of Hong Kong
94	Hae Young Lee	ETRI
95	Ho-Jin Choi	KAIST
96	Hongli Zhang	Media College, Inner Mongolia Normal University
97	Houssein Wehbe	N/A
98	Ikkyun Kim	ETRI
99	Il Kwon Cho	National Information Society Agency
100	JaeWan Kim	SOLiD Technologies
101	Jiehui Chen	Waseda University
102	Jithesh Sathyan	Infosys Technologies Limited
103	Jung-Bin Kim	Ajou University
104	Ju-Ya Chen	National Sun Yat-Sen University
105	Kim, Do-Young	ETRI
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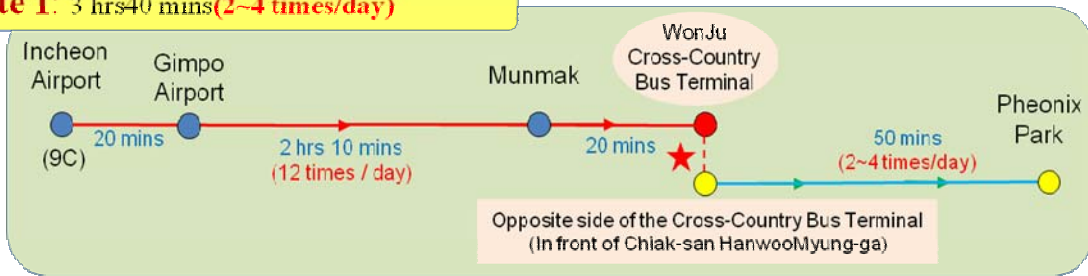


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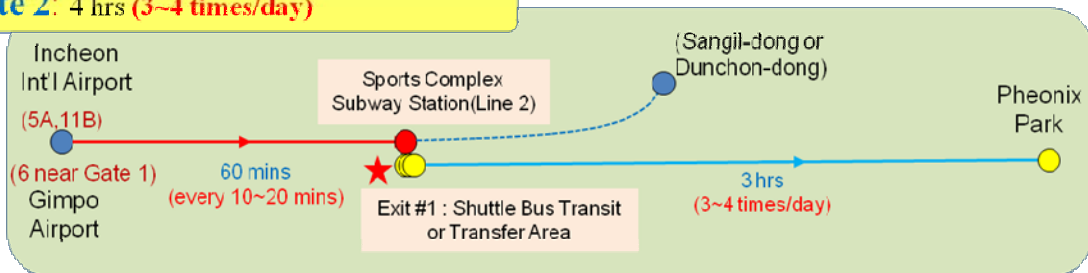
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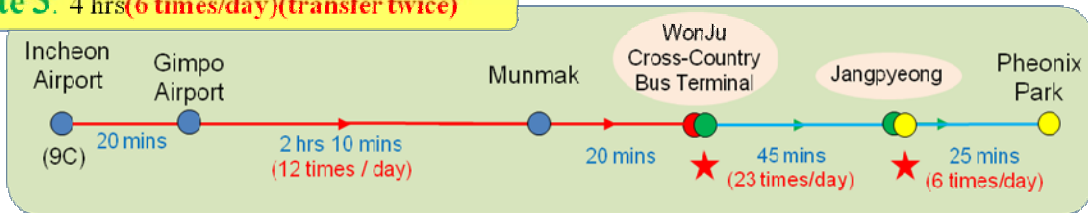
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### Route 2: 4 hrs (3~4 times/day)



### Route 3: 4 hrs (6 times/day) (transfer twice)





## Accommodation

### ▶ Hotel reservation at ICACT2011 conference rate

The information to make reservations is as below.

- **Standard hotel** : 100,000 Won  
(standard number of person : 2 , normal room rate : 240,000 ~ 280,000 Korea Won)
- **Condominium(66 m<sup>2</sup>)** : 90,000 Won  
(standard number of person : 4 , normal room rate : 240,000 Korea Won)
- **Condominium(99 m<sup>2</sup>)** : 110,000 Won  
(standard number of person : 5 , normal room rate : 360,000 Korea Won)
- **Notice :**
  - ※ **All participants can enjoy the hotel morning buffet at ICACT2011 conference rate as 12,000Won**  
(Normal price is 15,000Won).
  - ※ **Special conference rates are applicable 13~17. Feb. 2011 for foreign participants.**  
(Native participants are able to stay only during the conference 13~16. Feb. 2011)
- **Reservation**  
  
[RESERVATION Form Download](#) on ICACT2011 web site.
- **Contact for : Phoenix park**  
  
E-mail : [prmember@bokwang.com](mailto:prmember@bokwang.com), FAX : +82-2-527-9670  
  
Tel : +82-1577-0069 (For english service, please press number "9")

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3F

- 1. Topaz
- 2. Opal



2F

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

## 1. VOLTAGE

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



## 2. WEATHER

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

[http://web.kma.go.kr/eng/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>(GimpoInternational/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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