Conference Program

January 12 (Mon.) - 14 (Wed.), 2015
Siem Reap, Cambodia

Sponsored by KIISE Information Networking Society
Technically Co-sponsored by IEEE Computer Society and IEICE Communication Society
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  Jongwon Kim  GIST, Korea
  Seong-Ho Jeong  HUFS, Korea

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  Seung Hyong Rhee  Kwangwoon University, Korea

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  Sungrae Cho  Chung-Ang University
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  Hoon Choi  Chungnam National University
  Mi-Jung Choi  Kangwon National University
  Nakjung Choi  Bell-Labs, Alcatel-Lucent
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  Yao-Liang Chung  National Taipei University
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Chung-Ang University

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Beijing University of Posts and Telecommunications

Qin Xin  
University of the Faroe Island
Message from the ICOIN 2015 General Co-chairs

We would like to welcome you to Siem Reap, and welcome to ICOIN2015!

ICOIN 2015, the 29th International Conference on Information Networking 2015 is sponsored by KIISE, Korean Institute of Information Scientists and Engineers and also technically co-sponsored by IEEE-CS. We do hope you enjoy the world premier networking conference in our profession and wish this conference will be an opportunity to exchange of the state-of-the art research advances.

The three days of ICOIN 2015 in Siem Reap, Cambodia feature outstanding program and beautiful venue. We invited distinguished keynote speaker and also hosted a valuable tutorial speaker will give us lecture about fast and economic realization of diversified services over convergent software-defined Infrastructure. For ICOIN 2015, we have received over 260 submissions from many different countries and 121 papers have been accepted. Thanks to the tireless efforts of the technical program committee co-chairs, professors Myungsik Yoo and Sinchai Kamolphiwong, ICOIN2015 is packed with an excellent mix of technical sessions. Our TPC team consists of members from countries around the world. We also thank all organizing committee members of ICOIN2015 for producing such a wonderful program. We have prepared an exciting and comprehensive program for you. We hope you will take this good opportunity to attend the technical sessions, meet the authors, and foster greater collaboration ties with other researchers. In addition, if you have extra time, please do not miss the chance to tour around Siem Reap.

Siem Reap is the capital city of Siem Reap Province in northwestern Cambodia, and a popular resort town as the gateway to Angkor region. There are museums, traditional Apsara dance performances, Cambodian cultural village, souvenir and handicraft shops, silk farms, rice-paddy countryside, fishing and villages in Siem Reap. The primary attraction for visitors to Siem Reap is the Angkor Wat and the Angkor Temple Region, which blankets more than 300km of northwestern Cambodia. The Angkor...
Greetings

Temple Complex has been designated a UN Heritage Site and consists of hundreds of structures from the 9th to the 14th century that tell the story of the rise and fall of the Khmer empire. This vast collection of historical structures are decorated with intricately carved, priceless Khmer artwork and that provide an archaeological and a pictorial history of an empire that ruled much of southeast Asia for five centuries. In 2014, Siem Reap was ranked as the world's fourth best city for tourists. More than one million travelers visit Siem Reap every year to explore over a thousand years of Khmer heritage built near Tonle Sap Lake, the foundation of the economic power of the ancient Cambodian empire.

The Organizing Committee has been working diligently to make this conference a great success and most enjoyable. We look forward to your active participation and support in the future. Welcome again and thank you very much for joining us at ICOIN 2015 in Siem Reap.
Greetings

Message from the Technical Program Committee Co-Chairs

On behalf of the 2015 TPC committee co-chairs, it is our great pleasure to welcome you to ICOIN 2015, the 29th International Conference on Information Networking (ICOIN). ICOIN is a conference covering broad aspects of computer communications, wireless/mobile networks, and converged networks in the theoretical and practical aspects.

This year we received 260 papers from 11 different countries. Through a rigorous review process, we finally accepted 121 papers (acceptance rate is about 46%) for the presentation at the ICOIN 2015, where 63 of them were selected for oral presentation, and 58 for poster presentation. Almost all of the submitted papers received at least three independent reviews, which involved 90 TPC members, with the support of additional reviewers around the world. We also selected four outstanding papers for the Best Paper Award. The technical program is organized into 12 oral presentation sessions which are held in two parallel tracks, and six poster sessions as well as a keynote and tutorial. While the program covers a variety of topics on wireless and wired communications and networking technologies, this year we made an effort to reflect the growing interests in future networks and to extend our interest to network applications/service area.

We would like to express sincere thanks to the authors from all over the world for their prominent contributions. In addition to the authors, we are very thankful to all the TPC members. We believe that the precious and interesting program of this year is made possible by their valuable time and commitment for timeliness of the review process and the organization of technical program. We would also like to thank our sponsors, KIISE, IEEE Computer Society, and IEICE Communications Society Internet Architecture Technical Committee for their supports of this successful event. We extend our sincere thanks to the General Co-Chairs, Prof. Yeong Min Jang, Prof. Ki-Joon Chae, Prof. Panjai Tantatsanawong, Prof. Nguyen Huu Thanh, Prof. Katsuyuki Yamazaki, and the other members of the organizing committee for facilitating various aspects of our work. We hope that you enjoy the program of ICOIN 2015 and have a great time in Siem Reap, Cambodia. We also look forward to your continued participation in future ICOIN conferences.

TPC Committee Co-Chairs

Myungsik Yoo
Soongsil University, Korea

Sinchai Kamolphiwong
Prince of Songkla University, Thailand
# ICOIN 2015 Program at a Glance

<table>
<thead>
<tr>
<th>TIME</th>
<th>Track 1</th>
<th>Track 2</th>
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</thead>
<tbody>
<tr>
<td><strong>January 11, 2015 (Sunday)</strong></td>
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<tr>
<td>16:00-18:00</td>
<td>Organizing Meeting</td>
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<tr>
<td><strong>January 12, 2015 (Monday)</strong></td>
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<tr>
<td>08:30-09:00</td>
<td>Registration Open</td>
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<tr>
<td>09:00-10:45</td>
<td>Tutorial (Naga &amp; Rainbow)</td>
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<tr>
<td>10:45-11:00</td>
<td>Coffee Break</td>
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<tr>
<td>11:00-12:00</td>
<td>Opening Ceremony/Keynote Speech (Naga &amp; Rainbow)</td>
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<tr>
<td>12:00-13:00</td>
<td>Lunch Break (Citadel Restaurant)</td>
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<tr>
<td>13:00-15:00</td>
<td>Oral 1: Ad hoc/sensor networks I (Naga)</td>
<td>Oral 2: Security and privacy I (Rainbow)</td>
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<tr>
<td></td>
<td>Chair: Oh-Soon Shin, Soongsil Univ., Korea</td>
<td>Chair: Sungrae Cho, Chung-Ang Univ., Korea</td>
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<tr>
<td>15:00-16:00</td>
<td>Poster 1: Multimedia service (Hallway) / Coffee Break</td>
<td>Poster 2: WLAN, LTE, cognitive radio technology (Hallway) / Coffee Break</td>
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<td></td>
<td>Chair: Sanghwan Lee, Kookmin Univ., Korea</td>
<td>Chair: Sanghwan Lee, Kookmin Univ., Korea</td>
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<tr>
<td>15:30-17:30</td>
<td>Oral 3: Ad hoc/sensor networks II (Naga)</td>
<td>Oral 4: Security and privacy II (Rainbow)</td>
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<td>Chair: Osamu Muta, Kyushu Univ., Japan</td>
<td>Chair: Jaruwan Mesit, Grambling State Univ., USA</td>
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<tr>
<td>18:30-21:00</td>
<td>Welcome Reception (Poolside)</td>
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<td><strong>January 13, 2015 (Tuesday)</strong></td>
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<tr>
<td>08:30-09:00</td>
<td>Registration Open</td>
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<tr>
<td>09:00-10:00</td>
<td>Poster 3: Information-centric Networking and Software Defined Networking (Hallway) / Coffee Break</td>
<td>Poster 4: Internet of Things and Internet Applications (Hallway) / Coffee Break</td>
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<td>Chair: Ho Young Hwang, Hansung Univ., Korea</td>
<td>Chair: Ho Young Hwang, Hansung Univ., Korea</td>
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<tr>
<td>10:00-12:00</td>
<td>Oral 5: Network modeling, monitoring and management (Naga)</td>
<td>Oral 6: Cellular networks (Rainbow)</td>
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<td>Chair: Hwasung Kim, KwangWoon Univ., Korea</td>
<td>Chair: Nam Tuan Le, Kookmin Univ., Korea</td>
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<tr>
<td>12:00-13:00</td>
<td>Lunch Break (Citadel Restaurant)</td>
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<tr>
<td>13:00-15:00</td>
<td>Oral 7: Power, Localization, and Pricing in wireless networks (Naga)</td>
<td>Oral 8 Internet and web applications (Rainbow)</td>
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<td>Chair: Sungoh Kwon, Univ. of Ulsan, Korea</td>
<td>Chair: Taeshik Shon, Ajou Univ., Korea</td>
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<tr>
<td>15:00-16:00</td>
<td>Poster 5: Network measurement, performance and security (Hallway) / Coffee Break</td>
<td>Poster 6: Wireless, Multi-hop, Delay-tolerant Networks (Hallway) / Coffee Break</td>
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<td>Chair: Sang-Chul Kim, Kookmin Univ., Korea</td>
<td>Chair: Sang-Chul Kim, Kookmin Univ., Korea</td>
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<tr>
<td>16:00-18:00</td>
<td>Oral 9: Communication technology (Naga)</td>
<td>Oral 10: Implementation, measurement and performance analysis (Rainbow)</td>
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<td>Chair: Sanghyun Ahn, Univ. of Seoul, Korea</td>
<td>Chair: Hayoung Oh, Soongsil Univ., Korea</td>
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<tr>
<td>18:30-21:30</td>
<td>Banquet (Phokeethra Ballroom)</td>
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<td><strong>January 14, 2015 (Wednesday)</strong></td>
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<tr>
<td>08:30-09:00</td>
<td>Registration Open</td>
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<tr>
<td>09:00-11:00</td>
<td>Oral 11: Software defined networks (Naga)</td>
<td>Oral 12: Routing, QoS and resource management (Rainbow)</td>
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<td></td>
<td>Chair: Myungsik Yoo, Soongsil Univ., Korea</td>
<td>Chair: Kuochen Wang, National Chiao Tung Univ., Taiwan</td>
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</tbody>
</table>

- **Welcome Reception** – Date: January 12, 2015 / Time: 18:30 / Place: Poolside
- **Banquet** – Date: January 13, 2015 / Time: 18:30 / Place: Phokeethra Ballroom
Mon. January 12. 2015 (Naga & Rainbow)

09:00 - 10:45

Tutorial Chair:

Tutorial:

Fast and Economic Realization of Diversified Services over Convergent Software-Defined Infrastructure

Presenter: Prof. JongWon Kim (GIST, Korea)

Abstract:

In this tutorial talk, first, we will review the exploding paradigm shift toward software-defined ICT (Information and Communications Technology) infrastructure that leverages the harmonized orchestration of SDN (Software-Defined Networking), NFV (Network Functions Virtualization), and CC (Cloud Computing) technologies. The resulting futuristic SDI (Software-Defined Infrastructure) tied with the real-time analytics capability of BigData platforms can complete the emerging foundation of the Industrial Internet of Things (IIoT) frameworks with versatile smart/mobile things. Thus, the agile and economic realizations of diversified human-defined services are enabled over fully-automated SDI. Next, we will introduce the virtualized playground (i.e., testbed) concept, where the DevOps (Developers and Operators) engineers can experience the imminent innovation by orchestrating the Mobile+Cloud service realization with small-and-large hyper-convergent (i.e., computing/networking/storage combined) OF@TEIN/OF@KOREN SmartX Boxes. By starting from the building-block concepts such as ‘Box’, ‘Functions’, and ‘Inter-Connect’, we will show the automated abstractions for ‘Provisioning’, ‘Orchestration’, and ‘Governance’ can complete the experiment lifecycle of creating, testing, and launching human-defined services.

Short Biography

Prof. JongWon Kim received the B.S., M.S. and Ph.D. degrees from Seoul National University (Seoul, Korea), in 1987, 1989 and 1994, respectively, all in Control and Instrumentation Engineering. In 1994-2001, he was a faculty member of KongJu National University (KongJu, Korea) and University of Southern California (Los Angeles, USA). From Sept. 2001, he has joined Gwangju Institute of Science & Technology (Gwangju, Korea), where he is now a full Professor. Since April 2008, he is serving as the director of GIST SCENT (Super Computing CENTer). Also, he is leading Networked Computing Systems Lab. (recently renamed from Networked Media Lab.) that focuses on “Dynamic & resource-aware composition of media-centric services employing programmable/virtualized resources”. His recent research interests cover topics such as software defined networking (SDN) / cloud computing (CC) for Future Internet testbed and smart media-centric services employing heterogeneous SmartX nodes. Around these topics, he has co-authored more than 300 technical publications in international/domestic journals and conferences. Finally, he has/had been involved with several working group activities related to global R&E networks and Future Internet, including the HDTV WG chair of APAN (Asia-Pacific Advance Network), the WS chair of APAN-NRW (Network Research Workshop), the testbed WG Chair of FIF (Future Internet Forum in Korea), and the steering group member of AsiaFI.
Keynote Speech

Mon. January 12. 2015 (Naga & Rainbow)

11:00-12:00

Keynote Speech Chair:

Keynote Speech:
Enabling Technologies and Strategies for the Successful IoT Services?
Presenter: Prof. Jaiyong Lee (Yonsei University, Korea)

Abstract:
IoT services and technologies are expected to be the next growth engine in many global companies not only the contents providers but also the manufacturing companies. In this presentation, we ask 3 big questions related for the successful IoT services: In what applications can we find the value of IoT services? How the IoT value is created and what are the enabling technologies? And finally, what are the strategies for the successful IoT service?

Short Biography

Prof. Jaiyong Lee has been a professor at electrical and computer engineering department since 1987, 7 years at POSTECH and 20 years at Yonsei University, Seoul, Korea. As a director of the Advanced RFID/USN Technology center from 2004 to 2012, which was sponsored by the government, he led the technology development in related areas by producing many patents, journal papers and promoted academy-industry collaboration by transferring technologies. As a member of advisor of KIOT(Korea IoT Association) since 2005 and as the president of KICS(Korea Institute of Communication and Information Sciences) in 2012, he led government policies and activated the industries in ICT and especially in IoT areas, and led many international workshops such as WF(world Forum)-IoT 2014 as a co-chair. As a president of Giga Korea Foundation since 2013, he is leading the technology development for next generation ICT technology including 5G and IoT for future services in Korea. He was the dean of college of engineering and the president of industry- academy collaboration foundation of Yonsei University. He holds the Ph.D in computer engineering from Iowa State University, USA.
January 12, 2015 (Monday)

13:00 - 15:00

**ORAL SESSION 1**

**Ad hoc/sensor networks I**

Chair: Oh-Soon Shin, Soongsil Univ., Korea

[O1-001] Effective Data Collection Scheme by Mobile Agent over a Wireless Sensor Network
Takaaki Suetsugu, Shunya Matsunaga (Kyushu University, Japan); Takayuki Torikai (Kyuden Technosystems Corporation, Japan); Hiroshi Furukawa (Kyushu University, Japan)

[O1-002] ProbT: A Temporal Probabilistic Protocol to Mitigate the Broadcast Storm Problem in VANETs
Daniel Sucepira Lima, Manoel Rai P. Paula, Filipe Maciel Roberto, Andre Ribeiro Cardoso, Joaquin Celestino Junior (Universidade Estadual do Ceara, Brazil)

[O1-003] A role-based routing solution for MANET to support hierarchical rescue teams in emergency scenarios
Gabriela Souza, Judith Kelner, Rafael Aschoff (Federal University of Pernambuco, Brazil); Eduardo Feitosa (Federal University of Amazonas, Brazil)

[O1-004] Affordable 400MHz Long-haul Sensor Network for Greenhouse Horticulture
Masahiro Kuroda (National Institute of Information and Communications Technology, Japan); Hiroshi Mineno (Shizuoka University, Japan)

[O1-005] Application of the Lowest-ID Algorithm in Cluster-based TDMA System for VANETs
VanDung Nguyen, Oanh Tran, Duc Ngoc Minh Dang, Sung Soo Kim, Choong Seon Hong (Kyung Hee University, Korea)

16:00-18:00

**ORAL SESSION 2**

**Security and privacy 1**

Chair: Sungseo Cho, Chung-AngUniv., Korea

Chun-Yu Li (Tainan University of Technology, Taiwan); Chin-Wen Leen, Juan-Ji Shen (National Chung Hsing University, Taiwan)

Jarawan Mesit (Grambling State University, USA); Matthias R. Brust (Louisiana Tech University, USA)

[O2-003] Defending Flooding Attack in Delay Tolerant Networks
Prachi Nagra (Banasthali University, India); Sandhya Aneja (University of Delhi South Campus, India); G. N. Parbhoot (Banasthali University, India)

[O2-004] Analysis on End-to-End Node Selection Probability in Tor Network
Saurav Dahal (Chosun University, Korea); Junghye Lee; Jungmin Kang (ETRI, Korea); Seokjoon Shin (Chosun University, Korea)

[O2-005] User Authentication Using Mobile Phones for Mobile Payment
Soohwah Sung, Cheong Youn, Eunbae Kong, Jaechool Ryoo (Chungnam National University, Korea)

**ORAL SESSION 3**

**Ad hoc/sensor networks II**

Chair: Osamu Muta, Kyushu Univ., Japan

Dongta Jin, Fei Shi, Jooseok Song (Yonsei University, Korea)

[O3-002] A Distributed Bayesian Algorithm for Data Fault Detection in Wireless Sensor Networks
Hao Yuan, Xiaoxia Zhao, Liyang Yu (East China Normal University, China)

[O3-003] A Cost-Effective Scheme for Restoring Connectivity of Disconnected WSNs
Dajin Wang (Montclair State University, USA); Juncheng Jia (Soochow University, China); Liwei Lin (Shanghai Jiao Tong University, China)

M. B. Nirmala, A. S. Manjunath (Siddaganga Institute of Technology, India)

[O3-005] Multi-channel MAC protocol with Directional Antennas in Wireless Ad hoc Networks
Duc Ngoc Minh Dang, Huang Tra Le, Hye Sung Kang, Choong Seon Hong (Kyung Hee University, Korea); Jongwon Choe (Sookmyung Women’s University, Korea)

**ORAL SESSION 4**

**Security and privacy 2**

Chair: Jarawan Mesit, Grambling State Univ., USA

[O4-001] Identity-based Access Control for Digital Content based on Ciphertext-Policy Attribute-Based Encryption
Win-Bin Huang (Peking University, Taiwan); Wei-Tsung Su (Aletheia University, Taiwan)

[O4-002] An Efficient Defense Mechanism for Spoofed IP Attack in SDN based CDNi
Nishat Mowla, Inshil Doh, Kijoon Chae (Ewha Womans University, Korea)

[O4-003] Selective-Encrypted GIS Vector Map with Low Complexity
Jin-Hyeok Park, Pham Ngoc Giao, Teak-Young Seung, Ki-Ryong Kwon and Kwang-Soon Moon (Pukyong National University, Korea); Gi Chang Kwon (Gyeongbuk Provincial College, Korea); Suk-Hwan Lee (Tongmyong University, Korea)
[O4-004] Detection of Android Ad Library Focusing on HTTP Connections and View Object Redraw Behaviors  
Naoya Kajiwara, Junpei Kawamoto, Shinichi Matsumoto (Kyushu University, Japan); Yoshiaki Hori (Saga University, Japan); Kouichi Sakurai (Kyushu University, Japan)

[O4-005] Key Management Mechanism in ALTO/SDN based CDN Architecture  
Shi Li, Inshil Doh, Kijoon Chae (Ewha Womans University, Korea)

January 13, 2015 (Tuesday)
10:00 - 12:00

ORAL SESSION 5  
Network modeling, monitoring and management  
Chair: Hwasung Kim, KwangWoon Univ., Korea

[O5-001] Mobile Interface Control Scheme Can Extend Battery Life  
Suguru Doki, Tomohiko Ogishi, Shigehiro Ano (KDDI R&D Laboratories, Inc., Japan)

[O5-002] A Performance Simulator for DDS Networks  
Chul-Hwan Kim, Gunjae Yoon, Wonjoon Lee, Jungdo Park, Hoon Choi (Chungnam National University, Korea)

[O5-003] An Accountability Model for Internet Transactions  
Chian Techapanupreeda, Roongroj Chokngamwong, Chalee Thammarat (Mahanakorn University of Technology, Thailand); Supakorn Kungpisdan (Mahidol University, Thailand)

[O5-004] A Secure Lightweight Protocol for NFC Communications with Mutual Authentication Based on Limited-Use of Session Keys  
Chalee Thammarat, Roongroj Chokngamwong, ChianTechapanupreeda (Mahanakorn University of Technology, Thailand); Supakorn Kungpisdan (Mahidol University, Thailand)

[O5-005] Development strategy of disaster-resistant WiFi mesh networks and the disaster monitoring and reporting system in a local area  
Makoto Sugita, Hideaki MATSUE, Kazuhiro Yamaguchi (Tokyo University of Science, Japan); Tomohiko Shimodaizra (Komagane City, Japan); Manabu Shiratori (KISSEI COMTEC, Japan); Satoshi Nanamatsu (NPOCC21, Japan)

[O5-006] Features Extraction of Fluorescent Light Image for Positioning Information Acquisition using Steerable Gaussian Filter  
Jun-Woo Kim, Soon-Ho Jung, Min-Woo Lee (Seoul National University of Science & Technology, Korea); Ju-Phil Cho (Kunsan National University, Korea); Jae-Sang Cha (Seoul National University of Science & Technology, Korea)

ORAL SESSION 6  
Cellular networks  
Chair: Nam Tuan Le, Kookmin Univ., Korea

[O6-001] An Energy-Saving Small-Cell Zooming Scheme for Two-Tier Hybrid Cellular Networks  
Yao-Liang Chung (National Taipei University, Taiwan)

Rung-Shiang Cheng (Kuang Shan University, Taiwan); Chung-Ming Huang, Guan-Shin Cheng (National Cheng Kung University, Taiwan)

[O6-003] Resource Management Issues in 5G Ultra Dense Smallcell Networks  
Ming-Chin Chuang, Meng Chang Chen (Academia Sinica, Taiwan); Yeali S. Sun (National Taiwan University, Taiwan)

[O6-004] LTE-Advanced Based Handover Mechanism for Natural Disaster Situations  
Sayan Kumar Ray (Manukau Institute of Technology, New Zealand); Nurul I Sarkar (Auckland University of Technology, New Zealand); Devatana Deka (Dynamic Controls, New Zealand); Swapan Kumar Ray (Jadavpur University, India)

[O6-005] Joint Pricing and Power Allocation for Uplink Macrocell and Femtocell Cooperation  
Tuan LeAnh, Nguyen H. Tran, S. M. Ahsan Kazmi, Thani Zin Oo, Choong Seon Hong (Kyung Hee University, Korea)

13:00 - 15:00

ORAL SESSION 7  
Power, Localization, and Pricing in wireless networks  
Chair: Sungoh Kwon, Univ. of Ulsan, Korea

[O7-001] A System Model for Energy Efficient Green-IoT Network  
Sarder Fakhrul Abedin, Md Golam Rabibul Alam, Rim Haw; Choong Seon Hong (Kyung Hee University, Korea)

Keontaek Lee, Sanju Park, Seung-Jae Han (Yonsei University, Korea)

[O7-003] A Study of G.711 and ILBC over WLAN 802.11n with EDCA  
Rittichai Chanthong, Pongpisit Wutditditchatti (King Mongkut’s University of Technology North Bangkok, Thailand); Therdpong Duangt (JADS Comm Limited, Thailand)

[O7-004] Location-Aware Utility-Based Routing for Store-Carry-Forward Message Delivery  
Tomotaka Kimura, Tsubasa Matsuura (Osaka University, Japan); Masahiro Sassabe (Nara Institute of Science and Technology, Japan); Takahiro Matsuda, Tetsuya Takine (Osaka University, Japan)

[O7-005] Indoor Localization for Sparse Wireless Networks with Heterogeneous Information  
Hu Li, Yao-hui Wang, Qing-ming Sun (Beijing University of Posts and Telecommunications, China); Jin-nan Liu (Hisilicon Huawei Technologies Co., Ltd, China)

[O7-006] Comparison of Video Telephony: A Case Study of
LINE and Tango over 3G in Bangkok
Patitsa Sirawongphatsara, Pongpisit Wuttidittachotti (King Mongkut’s University of Technology North Bangkok, Thailand), Therdpong Daengsi (JADS Comm Limited, Thailand)

ORAL SESSION 8
Internet and web applications
Chair : Taeshik Shon, AjouUniv., Korea

[O8-001] OPF: Open Preference and Feature Recommender System
Wen-Ching Lin, Huey-Ing Liu (Fu-Jen Catholic University, Taiwan)

Juyeop Kim, Youiip Won (Hanyang University, Korea)

[O8-003] Rate Adaptation Scheme for HTTP-based Streaming to Achieve Fairness with Competing TCP Traffic
Jiwoo Park and Kwangsue Chang (Kwangwoon University, Korea)

Seungbum Ju, Kyoungtaek Lee, Jonghun Kim, Jaiyong Lee (Yonsei University, Korea)

[O8-005] Design Intelligence of Web Application for Internet Direct Consumer-to-consumer Trading
Vincent Chan (University of Southampton, United Kingdom); Tony Hao WU, Grantham Pang (The University of Hong Kong, Hong Kong)

15:30 - 17:30

ORAL SESSION 9
Communication technology
Chair : SanghyunAhn, Univ. of Seoul, Korea

[O9-001] Non-Link Switching Issue for Broadcasting Visible Light Communication
Nam-Tuan Le, Yeong Min Jang (Kookmin University, Korea)

Kazuhiro Yamaguchi, Takaharu Nagahashi, Takahiro Yamaguchi, Hideaki Matsue (Tokyo University of Science, Japan); Kunio Uekado (Azumino City, Japan); Takakazu Namera, Hiroshi Fukui (MIRAIT Technologies Corporation, Japan); Satoshi Nanamatsu (NPO CCC21L, Japan)

[O9-003] Mobility-Aware Time Delay Compensation Algorithm for Mobile OFDM Systems
Sangho Kwon (University of Ulsan, Korea); Neung-Hyang Lee (Samsung Electronics Co., Korea); SungYoon Jung (Yeungnam University, Korea); Sangchul Oh (ETRI, Korea)

Jeong Gon Kim (Korea Polytechnic University, Korea), Won Geon Bae (Tescom Co. Ltd.)

[O9-005] A Searching Tree-based channel assignment scheme for wireless networks
Xinyu Yang, Linqi Li, Wei Liu (Xian Jiaotong University, China)

ORAL SESSION 10
Implementation, measurement and performance analysis
Chair : Hayoung Oh, SoongsilUniv., Korea

Razvan Beuran (National Institute of Information and Communications Technology, Japan); Muhammad Tariq (Japan Advanced Institute of Science and Technology, Japan); Shinuske Miwa (National Institute of Information and Communications Technology, Japan); Yoichi Shinoda (Japan Advanced Institute of Science and Technology, Japan)

[O10-002] Federation-less Federation of ProtoGENI and VNode Platforms
Yasushi Kanada, Toshitaka Tarui (Hitachi, Ltd., Japan)

[O10-003] Performance Analysis of Fast Tracking Equalization for SC-FDMA and OFDM systems under multipath fading environment
Kazuhiro Yamaguchi, Takahiro Yamaguchi, Takaharu Nagahashi, Hideaki Matsue (Tokyo University of Science, Japan)

[O10-004] GFlow: Towards GPU-based High-Performance Table Matching in OpenFlow Switches
Kun Qiu, Zhe Chen, Yang Chen, Jin Zhao, Xin Wang (Fudan University, China)

[O10-005] SDN+Cloud integrated control with statistical analysis and discrete event simulation
Seiichi Koizumi, Masaya Fujiwaka (NEC Corporation, Japan)

January 14, 2015 (Wednesday)

09:00 - 11:00

ORAL SESSION 11
Software defined network
Chair : MyungsikYoo, Soongsil Univ., Korea

Chuan Pham, Hoang Dai Tran, Seung Il Moon, Kyi Thar, Choong Seon Hong (Kyung Hee University, Korea)

[O11-002] Centralized ARP Proxy Server over SDN controller to Cut down ARP Broadcast in Large-scale Data Center Networks
Hyunjeong Cho (KAIST, Korea); Saehoon Kang (ETRI, Korea); Younghee Lee (KAIST, Korea)

[O11-003] CoopRED: Cooperate RED for Software Defined
**Technical Sessions**

**Network**
Seongyun Jeong (Sungkyunkwan University, Korea); Younghoon Kim (KAIST, Korea); Donghyeok An (Samsung Electronics Co., Korea); Ikjun Yeom (Sungkyunkwan University, Korea)

[O11-004] A Feasible Method to combat against DDoS Attack in SDN Network
Nhu-Ngoc Dao, Junho Park (Chung-Ang University, Korea); Minho Park (Soongsil University, Korea); Sung rue Cho (Chung-Ang University, Korea)

Hiroya Nagao, Kazuyuki Shudo (Tokyo Institute of Technology, Japan)

**ORAL SESSION 12**
**Routing, QoS and resource management**
Chair: Kuochen Wang, National Chiao Tung Univ., Taiwan

Tsung-Feng Yu, Kuochen Wang, Yi-Huai Hsu (National Chiao Tung University, Taiwan)

Cuong T. Do, Nguyen H. Tran, Chuan Pham, Md. Golam Rabial Alam, Jae Hyeok Son, Choong Seon Hong (Kyung Hee University, Korea)

[O12-003] Efficient Forwarding and Popularity Based Caching for Content Centric Network
Kyi Thar, Thant Zin Oo, Chuan Pham, Saeed Ullah, Doo Ho Lee, Choong Seon Hong (Kyung Hee University, Korea)

[O12-004] Network Independent Mobility Management Scheme using Virtual IP Addressing
Yongseung Lee and Hyunseung Choo (Sungkyunkwan University, Korea); Dong soo S. Kim (Indiana University-Purdue University, USA)

[O12-005] Adaptive Beaconing Schemes in VANETs: Hybrid Approach
Syed Hass an Ahmed, Safidar Hussain Bouk, Donghyun Kim (Kyungpook National University, Korea)

[O12-006] Design of Exhibition Contents using Swipe Gesture Recognition Communication Based on Kinect
Yi-yoen Kim, Joo-Yong Park, Min-Woo Lee, Soon-Ho Jung, Kyung-Hoon Kim, Jae-Sang Cha (Seoul National University of Science & Technology, Korea)
January 12, 2015 (Monday)
15:00 - 16:00

POSTER SESSION 1
Multimedia service
Chair: Sanghwan Lee, Kookmin Univ., Korea

[P1-001] Considerations and Design on Apps for Elderly with Mild-to-moderate Dementia
Granatham Kwok-Hung Pang (The University of Hong Kong, Hong Kong); Enid Kwong (The Hong Kong Polytechnic University, Hong Kong)

[P1-002] Inter-symbol Interference Compensation for Bit Patterned Media Recording Storage
Seongkwon Jeong, Oh-Soon Shin, Chulhun Seo, Jaejin Lee (Soongsil University, Korea)

[P1-003] A Research on the QR Code Recognition Improvement using the cloud-based pre-generated Image Matching Scheme
Misun Ahn, Seung hyun Hong, Sungwon Lee (Kyung Hee University, Korea)

[P1-004] Media Synchronization Model based on Relation Flow for Multi-Screen Service
Svetlana Kim, Yong-Ik Yoon (Sookmyung Women’s University, Korea)

[P1-005] New Interpolation Method Based on Combination of Discrete Cosine Transform and Wavelet Transform
Ramesh Kumar Lama, Goo-Rak Kwon (Chosun University, Korea)

[P1-006] Multimedia Delivery Mechanism Framework for Smart Devices Based on Macro Data Center and Micro Data Center in PMIPv6 Environment
Ayman Abdullah Alsaffar, Eui-Nam Huh (Kyung Hee University, Korea)

[P1-007] Practical Design of Screen-to-Camera based Optical Camera Communication
Trang Nguyen, Nam Tuan Le, Yeong Min Jang (Kookmin University, Korea)

[P1-008] Effective Bandwidth Measurement for Dynamic Adaptive Streaming over HTTP
Jong-Min Jeong, Jong-Deok Kim (Pusan National University, Korea)

Hyung-Yoon Seo (Pusan National University, Korea); Byungjun Bae (ETRI); Jong-Deok Kim (Pusan National University, Korea)

[P1-010] A Synchronized Playback Method with Dynamic Buffering Time Awareness for Media Streaming
Kisu Ok, Dong woo Kwon, Hyeonwoo Kim, Hui gwang Je, Tae young Kim, Hong taek Ju (Keimyung University, Korea)

POSTER SESSION 2
WLAN, LTE, cognitive radio technology

January 13, 2015 (Tuesday)
09:00 - 10:00

POSTER SESSION 3
Information-centric Networking and Software Defined Networking
Chair: Ho Young Hwang, Hansung Univ., Korea

[P3-001] A Research on Transmission of Message and Voice using CCNx
Cheolhoon Kim, Sangyoon Han, Sungwon Lee (Kyung Hee University, Korea)
[P3-002] Content verification in Named Data Networking
SunWook Nam (Sangkyunkwan University, Korea); Dohyung Kim (KAIST, Korea); Ikjun Yeom (Sangkyunkwan University, Korea)

[P3-003] ICN-OMF: A Control, Management Framework for Information-Centric Network Testbed
Hyunwoo Lee, Donghyun Kim, Junho Suh, Ted "Taekyoung" Kwon (Seoul National University, Korea)

[P3-004] Autonomous Handoff Management of Heterogeneous Wireless Links Using SDN
Yumi Oh, Sungwon Lee (Kyung Hee University, Korea)

Hiep Tuan Nguyen Tri, Kyungbaek Kim (Chonnam National University, Korea)

[P3-006] RAON: A Recursive Abstraction of SDN Control-Plane for Large-Scale Production Networks
Myungchul Kwak, Hyunwoo Lee (Seoul National University, Korea); Jisoo Shin (ETRI, Korea); Junho Suh, Ted "Taekyoung" Kwon (Seoul National University, Korea)

[P3-007] Cloud-based Service Function Chaining with Distributed VMs and its Underlay-aware Improvement
Taehan Na, JongWon Kim (GIST, Korea)

[P3-008] A Refinement Algorithm for Rank Aggregation Over Crowdsourced Comparison Data
Narae Hwang and Sanghwan Lee (Kookmin University, Korea)

[P3-009] Phoneme based realtime taboo words similarity browsing system of new words using multi-lingual taboo words databases in web environments
Saim Shin, Dalwon Jang and Jong-Seol Lee (KETI, Korea); Da-Hee Kim (Yon-Sei University, Korea); Sukhan Yoon (Sogang University, Korea)

[P4-001] Efficient Bloom Filter Design for Information Hiding in Peer to Peer Social Networks
Narae Hwang and Sanghwan Lee (Kookmin University, Korea)

[P4-002] A Measurement Model for Trustworthiness of Information on Social Network Services
Yukyong Kim, Eun-Wha Jhee (Soongsil University, Korea); Jongwon Cho (Sookmyung Women's University, Korea); Jong-Seok Choi, Yongtue Shin (Soongsil University, Korea)

[P4-003] Prediction Model for Mental and Physical Health Condition using Risk Ratio EM
Yuchae Jung and Yongik Yoon (Sookmyung Women's University, Korea)

[P4-004] Behavior Tracking Model in Dynamic Situation using the risk ratio EM
Yuchae Jung and Yongik Yoon (SookMyung Women's University, Korea)

[P4-005] IoT Service Framework based on Mega Data Center and Micro Data Center in PMIPv6 Environment for Smart Devices
Aymen Abdullah Alsaffar and Eui-Nam Huh (Kyung Hee University, Korea)

[P4-006] E-government Service The case of e-tax filing In Thailand
Nakanya Chumsombat (Assumption University, Thailand)

[P4-007] Design of A Compact UWB Antenna for Multi-band Wireless Applications
Martins. C. Ezuma, Santosh Subedi, Jae-Young Pyun (Chosun University, Korea)

[P4-008] Designing Multi-level Connectivity for IoT-enabled SmartX Boxes
JongWon Kim (GIST, Korea)

[P4-009] DLNA Protocol Analysis Tool for Smart Device Interoperability Test
Yong-Suk Park, Se-Ho Park, Kyung-Taek Lee, Myung-Hyun Yoon (KETI, Korea)

[P4-010] Research about relation of music preference and brain-wave
Dalwon Jang; Yoon Jung Park; Saim Shin; JongSeol Lee; Sei-Jin Jung; Tae-Beom Lim (KETI, Korea)

15:00 - 16:00

POSTER SESSION 5
Network measurement, performance and security
Chair : Sang-Chul Kim, Kookmin Univ., Korea

[P5-001] Deanonymizing Schemes of Hidden Services in Tor Network: A Survey
Sabita Nepal, Saurav Dahal and Seokjoo Shin (Chosun University, Korea)

[P5-002] Potentialities and challenges of VLC based outdoor positioning
Trong-Hop Do, Myungsik Yoo (Soongsil University, Korea)

[P5-003] An Improved NLOS Detection Scheme Using Stochastic Characteristics for Indoor Localization
Manato Horiba, Eiji Okamoto (Nagoya Institute of Technology, Japan); Toshiko Shinohara, Katsuhide Matsumura (Daifuku Co., Ltd., Japan)

[P5-004] Prediction technique for resource allocation in Micro Data Center
Cong-Thinh Huynh, Eui-Nam Huh (Kyung Hee University, Korea)

[P5-005] Ethernet Switch/terminal Simulators for Novices to Learn Computer Networks
Yusaku Kanada (Kogakuin University, Japan)

Maya Louk, Hyoeak Lim (Dongseo University, Korea)

[P5-007] Cryptanalysis of An Anonymous Multi-Server
Authenticated Key Agreement Scheme Using Smart Cards and Biometrics
Chun-Ta Li (Tainan University of Technology, Taiwan); Cheng-Chi Lee (Fu Jen Catholic University, Taiwan); Hua-Hsuan Chen, Min-Jie Syu, Chun-Cheng Wang (Tainan University of Technology, Taiwan)

[P5-008] Detecting and tracing leaked private phone number data in Android smartphones
Wooguil Pak, Youngrok Cha, Sunki Yeo (Keimyung University, Korea)

[P5-009] Ontology based Location Reasoning Method Using Smart Phone Data
Sang Il Kim, Hwa Sung Kim (KwangWoon University, Korea)

POSTER SESSION 6
Wireless, Multi-hop, Delay-tolerant Networks
Chair: Sang-Chul Kim, Kookmin Univ., Korea

[P6-001] Influence of the constellations selection on the bit/power loading in DMT modulation
Jerzy Siuzdak, Lukasz Maksymiu (Warsaw University of Technology, Poland)

[P6-002] RF Performance of InGaAs-Based T-gate Junctionless Field-Effect Transistors which Applicable for High Frequency Network Systems
Jae Hwa Seo, Young Jun Yoon, Sung Yoon Kim, Young Jae Kim, In Man Kang (Kyungpook National University, Korea)

[P6-003] A Multipath Routing Protocol Based on Bloom Filter for Multi-hop Wireless Networks
Junwei Jin, Sanghyuan Ahn (University of Seoul, Korea); Hayoung Oh (Soongsil University, Korea)

[P6-004] Enhanced PROPHET Routing Protocol that Considers Contact Duration in DTNs
Ho-Jong Lee, Jae-Choong Nam, Won-Kyeong Seo, You-Ze Cho (Kyungpook National University, Korea); Soong-Hee Lee (Inje University, Korea)

[P6-005] Contribution-Level-Based Opportunistic Flooding for Wireless Multihop Networks
Seung-Kyu Byun, Hyeong-Yun Seo, Jong-Deok Kim (Pusan National University, Korea)

[P6-006] Analysis of Bit Error in Wireless Network
Jongmin Lee (Sungkyunkwan University, Korea); Donghyeok An (Samsung Electronics Co., Korea); Ikjun Yeom (Sungkyunkwan University, Korea)

[P6-007] IASS: An Intelligence Access Selection Scheme for Heterogeneous Networks
Bo Hu, Ning Li, Jingjing Zhang (Beijing University of Posts and Telecommunications, China)

[P6-008] Knowledge Driven Composition Model for WoO based Self-Directed Smart Learning Environment
Kwanghyeon Jeong (Hankuk University of Foreign Studies, Korea), Hwa-Suk Kim (ETRI, Korea), Ilyoung Chong (Hankuk University of Foreign Studies, Korea)

Adaptive Sliding Window Size
Hyejin Cha; Taeshik Kim; Manpyo Hong (Graduate School of Ajou University, Suwon, Korea)

[P6-010] Comparison of Frequency-domain block FxLMS and FxNLMS
Yoon Jung Park, Sei-Jin Jang, Dalwon Jang (KETI, Korea)

[P6-006] Analysis of Bit Error in Wireless Network
Jongmin Lee (Sungkyunkwan University, Korea); Donghyeok An (Samsung Electronics Co., Korea); Ikjun Yeom (Sungkyunkwan University, Korea)

[P6-007] IASS: An Intelligence Access Selection Scheme for Heterogeneous Networks
Bo Hu, Ning Li, Jingjing Zhang (Beijing University of Posts and Telecommunications, China)
Hotel
The conference will be held at Sofitel Angkor Phokeethra Golf and Spa Resort -- a top standard hotel in Siem Reap, Cambodia. Sofitel Angkor Phokeethra offers 5-star accommodation in Siem Reap close to the magnificent temples of Angkor Wat. The hotel, which elegantly combines Khmer and French architectural design, features landscaped gardens, 5 restaurants and bars, meeting facilities, a luxury spa and the largest free form swimming pool in Cambodia. The leading luxury resort in Siem Reap also boasts a world-class 18-hole golf course at the Phokeethra Country Club, which is only a 25 min drive from the hotel.

Address
Vithei Charles de Gaulle
Khum Svay Dang Kam
Angkor
1010 - SIEM REAP
CAMBODIA

Room Reservation
To make a room reservation, please contact the resort at:
(should mention “ICOIN” when making reservation)
+ Phone: (+855) 63 964 600
+ Fax: (+855) 63 964 610
+ Email: h3123@sofitel.com

Online room reservation

Map & Direction
Sofitel Angkor Phokeethra is located 8 kilometers from Siem Reap International Airport. It takes approximately 15 minutes to travel from the airport to the resort by car. The hotel offers airport transfer service from the airport. Transportations includes Ford van (8 passengers), Hyundai car (6 passengers), and Coaster or Bus (20 ~ 43 passengers). Airport transfer service should be booked in advance.

Further information and the map for this travelling could be found on the resort’s website.

Online Booking Sites
• booking.com
• hotels.com
• asiarooms.com
• agoda.com
• hotelclub.com
• accorhotels.com
Venue & Accommodation