ICOIN 2015

The 29th International Conference on Information Networking

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

KOREAN INSTITUTE OF INFORMATION SCIENTISTS AND ENGINEERS

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Masayuki Murata	Osaka University
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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 handycraft 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

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.
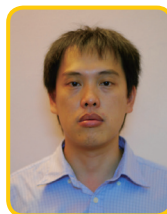
Yeong Min Jang	**Ki-Joon Chae**	**Panjai Tantatsanawong**	**Nguyen Huu Thanh**	**Katsuyuki Yamazaki**
Kookmin University, Korea	Ewha Womans University, Korea	Silpakorn University, Thailand	HUST, Vietnam	Nagaoka Univ. of Tech., Japan

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

ICOIN 2015 Program at a Glance

TIME	Track 1	Track2
January 11, 2015 (Sunday)		
16:00-18:00	Organizing Meeting	
January 12, 2015(Monday)		
08:30-09:00	Registration Open	
09:00-10:45	Tutorial (Naga & Rainbow)	
10:45-11:00	Coffee Break	
11:00-12:00	Opening Ceremony/Keynote Speech (Naga & Rainbow)	
12:00-13:00	Lunch Break (Citadel Restaurant)	
13:00-15:00	Oral 1 : Ad hoc/sensor networks I (Naga) Chair :Oh-Soon Shin, Soongsil Univ., Korea	Oral 2 : Security and privacy I (Rainbow) Chair : Sungrae Cho, Chung-AngUniv., Korea
15:00-16:00	Poster 1 : Multimedia service (Hallway) / Coffee Break Chair :Sanghwan Lee, Kookmin Univ., Korea	Poster 2 : WLAN, LTE, cognitive radio technology (Hallway) / Coffee Break Chair :Sanghwan Lee, Kookmin Univ., Korea
15:30-17:30	Oral 3 : Ad hoc/sensor networks II (Naga) Chair : Osamu Muta, Kyushu Univ., Japan	Oral 4 : Security and privacyII (Rainbow) Chair : Jaruwan Mesit, Grambling State Univ., USA
18:30-21:00	Welcome Reception (Poolside)	
January 13, 2015 (Tuesday)		
08:30-09:00	Registration Open	
09:00-10:00	Poster 3 : Information-centric Networking and Software Defined Networking (Hallway) / Coffee Break Chair : Ho Young Hwang, Hansung Univ., Korea	Poster 4 : Internet of Things and Internet Applications (Hallway) / Coffee Break Chair : Ho Young Hwang, Hansung Univ., Korea
10:00-12:00	Oral 5 : Network modeling, monitoring and management (Naga) Chair : Hwasung Kim, KwangWoon Univ., Korea	Oral 6 : Cellular networks (Rainbow) Chair : Nam Tuan Le, Kookmin Univ., Korea
12:00-13:00	Lunch Break (Citadel Restaurent)	
13:00-15:00	Oral 7 : Power, Localization, and Pricing in wireless networks (Naga) Chair : Sungoh Kwon, Univ. of Ulsan, Korea	Oral 8 Internet and web applications (Rainbow) Chair : Taeshik Shon, AjouUniv., Korea
15:00-16:00	Poster 5 : Network measurement, performance and security (Hallway) / Coffee Break Chair : Sang-Chul Kim, Kookmin Univ., Korea	Poster 6 : Wireless, Multi-hop, Delay-tolerant Networks (Hallway) / Coffee Break Chair :Sang-Chul Kim, Kookmin Univ., Korea
16:00-18:00	Oral 9 : Communication technology (Naga) Chair : Sanghyun Ahn, Univ. of Seoul, Korea	Oral 10 : Implementation, measurement and performance analysis (Rainbow) Chair : Hayoung Oh, SoongsilUniv., Korea
18:30~21:30	Banquet (Phokeethra Ballroom)	
January 14, 2015 (Wednesday)		
08:30-09:00	Registration Open	
09:00-11:00	Oral 11 : Software defined networks (Naga) Chair : MyungsikYoo, Soongsil Univ., Korea	Oral 12 : Routing, QoS and resource management (Rainbow) Chair : KuochenWang,National Chiao Tung Univ., Taiwan

- **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)
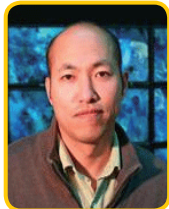
09:00 - 10:45

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 (I2oT) 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.

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 Sucupira Lima, Manoel Rui P. Paula, Filipe Maciel Roberto, Andre Ribeiro Cardoso, Joaquim Celestino Júnior (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); Hirofumi Ibayashi, 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)

ORAL SESSION 2
Security and privacy 1

Chair : Sungrae Cho, Chung-AngUniv., Korea

[O2-001] A Secure Three-party Authenticated Key Exchange Protocol Based on Extended Chaotic Maps in Cloud Storage Service
Chun-Ta Li (Tainan University of Technology, Taiwan); Chin-Wen Leen, Jau-Ji Shen (National Chung Hsing University, Taiwan)

[O2-002] Secured Node-to-Node Key Agreement for Wireless Sensor Networks
Jaruwan Mesit (Grambling State University, USA); Matthias R. Brust (Louisiana Tech University, USA)

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

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

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

16:00-18:00

ORAL SESSION 3
Ad hoc/sensor networks II

Chair : Osamu Muta, Kyushu Univ., Japan

[O3-001] A Traffic Flow Theory based Density Adopted Emergency Message Dissemination Scheme for Vehicular Ad Hoc Networks
Dongxu 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)

[O3-004] Mobile Agent based Secure Code Update in Wireless Sensor Networks
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, Huong Tra Le, Hyo Sung Kang, Choong Seon Hong (Kyung Hee University, Korea); Jongwon Choe (Sookmyung Women's University, Korea)

ORAL SESSION 4
Security and privacy 2

Chair : Jaruwan 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-Seok 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 CDNi 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, Chian Techapanupreeda (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 Shimodaira (Komagane City, Japan); Manabu Shirotori (KISSEI COMTEC, Japan); Satoshi Nanamatsu (NPOCCC21, 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)

[O6-002] A D2D Cooperative Relay Scheme for Machine-to-Machine Communication in the LTE-A Cellular Network

Rung-Shiang Cheng (Kun Shan University, Taiwan); Chung-Ming Huang, Guan-Shiun 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); Devatanu 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, Thant 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 Rabiul Alam, Rim Haw; Choong Seon Hong (Kyung Hee University, Korea)

[O7-002] Energy Efficient Gathering of Delay Tolerant Sensing Data in Wireless Sensor Networks

Keontaek Lee, Sunju 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 Wuttidittachotti (King Mongkut's University of Technology North Bangkok, Thailand), Therdpong Daengsi (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 Sasabe (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, Qi-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

Patsita 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)

[O8-002] Dynamic Load Balancing for Efficient Video Streaming Service

Junyeop Kim, Youjip Won (Hanyang University, Korea)

[O8-003] Rate Adaptation Scheme for HTTP-based Streaming to Achieve Fairness with Competing TCP Traffic

Jiwoo Park and Kwangsue Chung (Kwangwoon University, Korea)

[O8-004] An efficient flow classification algorithm in Software-Defined Networking

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)

[O9-002] Transmission Performance Evaluation for Downlink MU-MIMO System: Computer Simulation with Block Diagonalization Algorithm and Field Experiments based on Mobile WiMAX System

Kazuhiro Yamaguchi, Takaharu Nagahashi, Takuya Akiyama, 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

Sungoh Kwon (University of Ulsan, Korea); Neung-Hyung Lee (Samsung Electronics Co., Korea); SungYoon Jung (Yeungnam University, Korea); Sangchul Oh (ETRI, Korea)

[O9.-004] Adaptive Step Control of LMS-based Interference Cancellation for WMAN ICS Radio Repeater

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

[O10-001] Wireless Network Performance Evaluation through Emulation: WiMAX Case Study

Razvan Beuran (National Institute of Information and Communications Technology, Japan); Muhammad Tariq (Japan Advanced Institute of Science and Technology, Japan); Shinsuke 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

Yasusi Kanada, Toshiaki Tarui (Hitachi, Ltd., Japan)

[O10-003] Performance Analysis of Fast Tracking Equalization for SC-FDMA and OFDM systems under multipath fading environment

Kazuhiro Yamaguchi, Takuya Akiyama, 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

[O11-001] A General and Practical Consolidation Framework in CloudNFV

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

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); Sungrae Cho (Chung-Ang University, Korea)

[O11-005] Mergeable Flexible Routing Tables: A Design Framework for Reusable Structured Overlay Algorithms

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

ORAL SESSION 12

Routing, QoS and resource management

Chair : KuochenWang,National Chiao Tung Univ., Taiwan

[O12-001] Adaptive Routing for Video Streaming with QoS Support over SDN Networks

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

[O12-002] A Proximal Algorithm for Joint Resource Allocation and Minimizing Carbon Footprint in Geo-distributed Fog Computing

Cuong T. Do, Nguyen H. Tran, Chuan Pham, Md. Golam Rabiul 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); Dongsoo S. Kim (Indiana University-Purdue University, USA)

[O12-005] Adaptive Beaconing Schemes in VANETs: Hybrid Approach

Syed Hassan Ahmed, Safdar Hussain Bouk, Dongkyun 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
Grantham 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, Seunghyun 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 Mega Data Center and Micro Data Center in PMIPv6 Environment
Aymen 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)

[P1-009] Transmission Model for Next-generation Digital Broadcasting Systems
Hyung-Yoon Seo (Pusan National University, Korea); Byungjun Bae (ETRI, Korea); Jong-Deok Kim (Pusan National University, Korea)

[P1-010] A Synchronized Playback Method with Dynamic Buffering Time Awareness for Media Streaming
Kisu Ok, Dongwoo Kwon, Hyeonwoo Kim, Huigwang Je, Taeyoung Kim, Hongtaek Ju (Keimyung University, Korea)

POSTER SESSION 2

WLAN, LTE, cognitive radio technology

Chair : Sanghwan Lee, Kookmin Univ., Korea

[P2-001] A Simulation Approach for Analysis of Multi-hop Connectivity in Cognitive Radio Ad-hoc Networks
Le The Dung and Beongku An (Hongik University, Korea)

[P2-002] Power Allocation Scheme for D2D Communications in an OFDM-Based Cellular System
Gil-Mo Kang, Jaejin Lee, Oh-Soon Shin (Soongsil University, Korea)

[P2-003] Hybrid Cooperative Spectrum Sensing Scheme for Cognitive Radio Networks
Nhu Tri Do, Beongku An (Hongik University, Korea)

[P2-004] Mitigation of the polarization sensitivity in OFDMA PON uplink transmission
Sang-Min Jung, Kyung-Hak Mun, Sang-Kook Han (Yonsei University, Korea)

[P2-005] Power Control for Cognitive Users in Coexistence with CSMA-based Primary Networks
Kwanhee Jeong (Samsung Electronics Co., Korea), Hyuk Lim (GIST, Korea); Hyunduk Kang (ETRI, Korea)

[P2-006] A Novel Medium Access Scheme for Cluster Based Device-to-Device Broadcast Communications
Jun Suk Kim, Jaheon Gu, Min Young Chung (Sungkyunkwan University, Korea); Hong June Seok (Kyonggi University, Korea)

[P2-007] A Design of 10 Gigabit Capable Passive Optical Network(XG-PON1) Architecture based on Software Defined Network(SDN)
Youngsuk Lee (Korea Gas Corporation, Korea); Younghan Kim (Soongsil University, Korea)

[P2-008] The Performance Evaluation of K-means by Two MapReduce Frameworks, Hadoop vs. Twister
Yunhee Kang (BaekSeok University, Korea); Young B. Park (Dankook University, Korea)

[P2-009] A Hybrid Service Discovery Approach to Mitigate Overhead Concentration on Resource Directory
Yoona Kim, Ki-Hyung Kim, Taeshik Shon and Kim Jai-Hoon (Graduate School of Ajou University, Korea)

[P2-010] Critical-path Aware Broadcast Scheduling in Duty-cycled Wireless Sensor Networks
Giyeol Im, Duc Tai Le, Hyunseung Choo (Sungkyunkwan University, Korea), Dongsoo S. Kim (Indiana University-Purdue University, USA)

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 (Sungkyunkwan University, Korea); Dohyung Kim (KAIST, Korea); Ikjun Yeom (Sungkyunkwan 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)

[P3-005] Assessing the Impact of Resource Attack in Software Defined Network
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
Taeheum 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)

POSTER SESSION 4
Internet of Things and Internet Applications
Chair : Ho Young Hwang, Hansung Univ., 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 Choe (Sookmyung Women's University, Korea); Jong-Seok Choi, Yongtae 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 Jang; 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, Katsuhiko 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
Yasusi Kanada (Kogakuin University, Japan)

[P5-006] Homomorphic Encryption in Mobile Multi Cloud Computing
Maya Louk, Hyotaek 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 Maksymiuk (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, Sanghyun 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)

[P6-009] Improving Packet Header Compression with

Adaptive Sliding Window Size

Hyejin Cha; Taeshik Shon; Kangseok 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)

Venue & Accommodation

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 boosts 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 Kum
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
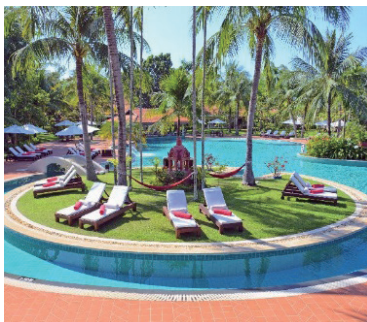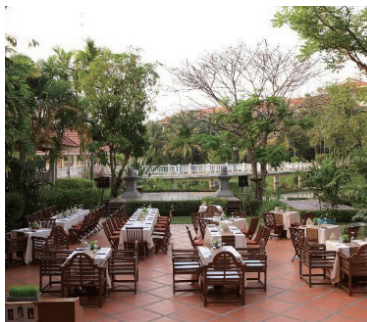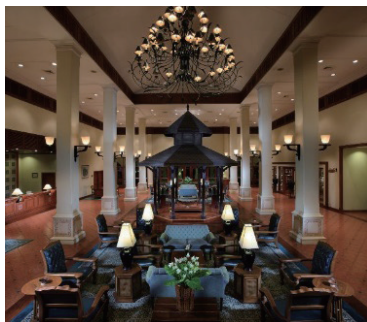*+ Email: h3123@sofitel.com*
Online room reservation

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.

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