
Busan, South Korea
19-21 August 2015
### Technical Session 1: SDN Management I

**Date:** Wednesday, 19th August 2015, 14:25-16:05, Ballroom A  
**Chair:** Seung-Joon Seok (Kyungnam University, Korea)

**TS1-1**  
Towards Consistent Software Defined Networking with Logic Programming  
Eric Lui*, Yu-Sung Wu*, Patrick Ngai*, Tung-Yueh Lin*, Hong-Wei Li*, Shih-Yi Huang**  
(National Chiao Tung University, Taiwan)*, (Chunghua Telecom Laboratories, Taiwan)**

**TS1-2**  
Ryu: Using High Level Northbound API for Control Messages in Software Defined Network  
Shaoyu Zhang*, Yao Shen*, Matthias Herlich**, Kien Nguyen***, Yusheng Ji**, Shigeki Yamada**  
(Shanghai Jiao Tong University, China)*, (National Institute of Informatics, Japan)**, (National Institute of Information and Communications Technology, Japan)***

**TS1-3**  
A Telco's Perspectives: Open and Flexible Transport SDN  
Choon-Gul Park, Chan-Kyou Hwang, Ki-Tae Jeong (KT, Korea)

**TS1-4**  
Towards a Detailed OpenFlow Emulator  
Yi-Jun Cheng*, Daniel Huang*, Cheng-Lin Lee*, Mu-Che Lee*, Bo-Wei Chuang*, Meng-Chen Tsai*, Xin Huang**, and Cheng-Hsin Hsu* (National Tsing Hua University, Taiwan), (Cyan Inc., USA)**

### Technical Session 2: Ad Hoc & Cellular Network Management

**Date:** Wednesday, 19th August 2015, 14:25-16:05, Ballroom B  
**Chair:** Takumi Miyoshi (Shibaura inst. Tech., Japan)

**TS2-1**  
Road Aware QoS Routing in VANETs  
Zubair Amjad, Wang-Cheol Song (Jeju National University, Korea)

**TS2-2**  
Performance Evaluation of Time Slot Based QoS Aware Ad Hoc Network Scheme for CBR and TCP Flows  
Jing Lin, Celimegu Wu, Satoshi Ohzahata, and Toshihiko Kato  
(University of Electro-Communications, Japan)

**TS2-3**  
IPv4 and IPv6 Performance Comparison in IPv6 LTE Network  
Jonghwan Hyun*, Jian Li*, Hwankuk Kim**, Jae-Hyoun Yoo* and James Won-Ki Hong***  
(Department of Computer Science and Engineering, POSTECH, Korea)*,  
(Division of IT Convergence Engineering, POSTECH, Korea)**, (KISA, Korea)***

**TS2-4**  
Load-Sharing based on Relay-aided Cooperative Modeling in Uplink Two-Tier Cellular Networks  
Tuan LeAnh, Nguyen H.Tran, S. M. Ahsan Kazmi, Thanti Zin Oo, Kyi Thar, Tai Manh Ho, Choong Seon Hong  
(Kyung Hee University, Korea)

### Technical Session 3: Wireless and Mobile Network Management

**Date:** Wednesday, 19th August 2015, 16:35-18:15, Ballroom A  
**Chair:** Chih-Wei Yi (NCTU, Taiwan)

**TS3-1**  
Location Selection with User Behavior Analysis for Telecom Operator's Service Halls  
Jie Zhang, Lanlan Rui, Shaoyong Guo, Xue-song Qiu, Ao Xiong  
(Beijing University of Posts and Telecommunications, China)

**TS3-2**  
Energy-efficient Method of Data Transmission in the Mobile Network  
Wonjun Choi*, Ramneek*, Woojin Seok**  
(Korea University of Science and Technology, Korea)*, (KISTI,Korea)**

**TS3-3**  
Data Offloading in Heterogeneous Cellular Networks: Stackelberg Game Based Approach  
Tai Manh Ho, Nguyen H. Tran, Cuong T. Do, S.M Ahsan Kazmi, Tuan LeAnh, Choong Seon Hong  
(Kyung Hee University, Korea)

**TS3-4**  
A simple real-time handover management in the mobile satellite communication networks  
Wu Zhaojia*, Hu Guiyu*, Younes Seyedi**, Jin Fenglin*  
(PLA University of Science and Technology,China)*,(Polytechnique Montreal, Canada)***
# Technical Sessions

## Technical Session 4: Traffic & Fault Management

**Date**: Thursday, 20th August 2015, 10:30-12:10, Ballroom B  
**Chair**: Sangheon Pack (Korea University, Korea)

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<td>KiHyeon Kim, Mi-Jung Choi (Kangwon National University, Korea)</td>
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## Technical Session 5: Contents-Oriented Network Management

**Date**: Thursday, 20th August 2015, 13:10-14:50, Ballroom B  
**Chair**: Hiroaki Morino (Shibaura Institute of Technology, Japan)

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**Date**: Thursday, 20th August 2015, 15:20-17:25, Ballroom A  
**Chair**: Louis Kuo (CHT, Taiwan)

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## Technical Session 7: Distributed and Accounting Management

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**Chair:** Woojin Seok (KISTI, Korea)

| TS7-1 | Providing flexible authorization for shared group spaces by the attribute registration system  
Yosuke Seki, Kenji Matsura, Masahiko Sano, Tetsushi Ueta (Tokushima University, Japan) |
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| TS7-2 | MOE-A Framework Integrating Network Performance Monitoring, Optimization and Evaluation  
Fuliang Li, Jiahai Yang, Xingwei Wang (Northeastern University, China) |
| TS7-3 | An Hourly Day-Ahead Paris Metro Pricing Scheme for Mobile Data Networks  
Huai-Sheng Huang*, Po-Han Lee*, Yu-Chee Tseng*, Bo Ting**, Wan-Hsun Hu**  
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| TS7-4 | Oligopoly Competition in Time-Dependent Pricing for Improving Revenue of Network Service Providers Considering Different QoS Functions  
Cheng Zhang, Bo Gu, Liu Zhi, Kyoko Yamori, Yoshiaki Tanaka (Waseda University, Japan) |
| TS7-5 | A Distributed Bandwidth Assignment Method for Large File Transfer with Time Constraints  
Kensuke Saito*, Kazuzhiko Kinoshita**, Nariyoshi Yamai***, Takashi Watanabe*  
(Osaka University, Japan), (The University of Tokushima, Japan)**, (Tokyo University of Agriculture and Technology, Japan)*** |

## Technical Session 8: SDN Management II

**Date:** Friday, 21st August 2015, 10:30-12:10, Ballroom B  
**Chair:** Kiyohito Yoshihara (KDDI Labs, Japan)

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Yifei Lu*, Dong Xu Han*, Zhenwei Zhang**  
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| TS8-2 | Networking Agent for Overlay L2 Routing and Overlay to Underlay External Networks L3 Routing using OpenFlow and Open vSwitch  
Piyush Srivastava, Suket Saurav (PDPM Indian Institute of Information Technology Design and Manufacturing, India) |
| TS8-3 | PID-based Adaptive Control Plane Management Method for Software-Defined Networks  
Jian Li*, Jae-Hyong Yoo**, James Hong** (Division of IT Convergence Engineering, POSTECH, Korea)*, (Department of Computer Science and Engineering, POSTECH, Korea)** |
| TS8-4 | Minimizing Flow Initialization Latency in Software Defined Networks  
Yi-Ying Huang*, Meng-Wei Lee*, Tao-Ya Fan-Chiang*, Xin Huang**, Cheng-Hsin Hsu*  
(National Tsing Hua University, Taiwan)*, (Cyan Inc., USA)** |

## Technical Session 9: IOT Management

**Date:** Friday, 21st August 2015, 13:10-14:50, Ballroom A  
**Chair:** Edmundo Madeira (University of Campinas, Brazil)

| TS9-1 | A Fog based System Model for Cooperative IoT Node Pairing using Matching Theory  
Sarder Fahadul Abedin, Md Golam Railway Alam, Nguyen H. Tran, Choong Seon Hong  
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| TS9-2 | Universal Fault Detection for NFV using SOM-based Clustering  
Tomonobu Niwa*, Masanori Miyazawa*, Michiaki Hayashi*, Rolf Stadler**  
(KDDI R&D Laboratories Inc., Japan)*, (KTH The Royal Institute of Technology, Sweden)** |
| TS9-3 | A Shared Parking Model in Vehicular Network Using Fog and Cloud Environment  
Oanh Tran Thi Kim, Tri Nguyen Dang, VanDung Nguyen, Nguyen H. Tran, Choong Seon Hong  
(Kyung Hee University, Korea) |
| TS9-4 | Smart Home Web of Objects-based IoT Management Model and Methods for Home data mining  
Jae Young Kim, Hark-Jin Lee, Jiyeon Son, Jun Hee Park (ETRI, Korea) |
**Poster Sessions**

**Poster Sessions 1**

**Date**: Wednesday, 19th August 2015, 13:55-14:25 & 16:05~16:35, Lobby  
**Chair**: Chan-Kyou Hwang (KT, Korea)

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**Date:** Thursday, 20th August 2015, 10:00-10:30 & 14:50~15:20, Lobby

**Chair:** Takumi Miyoshi (Shibaura Inst. Tech., Japan)

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