### Oral Sessions

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<td>Takaaki Suetsugu (Kyushu University &amp; Kyuden Technosystems Corporation, Japan); Shunya Matsunaga (Kyushu University, Japan); Takayuki Torikai (Kyuden Technosystems Corporation, Japan); Hiroshi Furukawa (Kyushu University, Japan)</td>
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#### Oral 1: Ad hoc/sensor networks I (Naga) January 12, 2015 (Monday) 13:00-15:00 Room 1

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<tr>
<td>Effective Data Collection Scheme by Mobile Agent over a Wireless Sensor Network</td>
<td>Takaaki Suetsugu; Shunya Matsunaga; Takayuki Torikai; Hiroshi Furukawa</td>
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<td>ProbT: A Temporal Probabilistic Protocol to Mitigate the Broadcast Storm Problem in VANETs</td>
<td>Daniel Lima; Manoel Rui P Paula; Filipe Maciel Roberto; Andre Ribeiro Cardoso; Joaquim Celestino Júnior</td>
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<td>A role-based routing solution for MANET to support hierarchical rescue teams in emergency scenarios</td>
<td>Gabriela Souza; Eduardo Feitosa; Judith Kelner; Rafael Roque Aschoff</td>
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<td>Affordable 400MHz Long-haul Sensor Network for Greenhouse Horticulture</td>
<td>Masahiro Kuroda; Hiroshi Mineno; Hirofumi Ibayashi</td>
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<td>Application of the Lowest-ID Algorithm in Cluster-based TDMA System for VANETs</td>
<td>VanDung Nguyen; Oanh Tran; Duc Ngoc Minh Dang; Choong Seon Hong</td>
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<td>A Traffic Flow Theory based Density Adopted Emergency Message Dissemination Scheme for Vehicular Ad Hoc Networks</td>
<td>Dongxu Jin (Yonsei University, Korea)</td>
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<td>A Distributed Bayesian Algorithm for Data Fault Detection in Wireless Sensor Networks</td>
<td>Hao Yuan; Xiaoxia Zhao; Liyang Yu (East China Normal University, P.R. China)</td>
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<td>A Cost-Effective Scheme for Restoring Connectivity of Disconnected WSNs</td>
<td>Dajin Wang; Juncheng Jia; Liwei Lin (Montclair State University, USA); Juncheng Jia (Soochow University, P.R. China); Liwei Lin (Shanghai Jiao Tong University, P.R. China)</td>
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<td>Mobile Agent based Secure Code Update in Wireless Sensor Networks</td>
<td>Nirmala (Siddaganga Institute of Technology, India)</td>
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<td>Multi-channel MAC protocol with Directional Antennas in Wireless Ad hoc Networks</td>
<td>Duc Ngoc Minh Dang, Huong Tra Le and Choong Seon Hong (Kyung Hee University, Korea); Jongwon Choe (Sookmyung Women's University, Korea)</td>
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<td>A Secure Three-party Authenticated Key Exchange Protocol Based on Extended Chaotic Maps in Cloud Storage Service</td>
<td>Chun-Ta Li; Chin-Wen Lee; Jau-Ji Shen</td>
<td>Chun-Ta Li (Tainan University of Technology, Taiwan); Chin-Wen Lee and Jau-Ji Shen (National Chung Hsing University, Taiwan)</td>
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<td>Secured Node-to-Node Key Agreement for Wireless Sensor Networks</td>
<td>Jaruwan Mesit; Matthias R. Brust</td>
<td>Jaruwan Mesit (Grambling State University, USA); Matthias R. Brust (Louisiana Tech University, Ruston, USA)</td>
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<td>Defending Flooding Attack in Delay Tolerant Networks</td>
<td>Preeti Nagrath; Sandhya Aneja; G Purohit</td>
<td>Preeti Nagrath (Banasthali University &amp; Bharati Vidyapeeth University, India); Sandhya Aneja (Universiti Brunei Darussalam, Brunei Darussalam); G Purohit (Banasthali Vidyapeeth, Banasthali, India)</td>
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<td>Analysis on End-to-End Node Selection Probability in Tor Network</td>
<td>Saurav Dahal; Junghee Lee; JungMin Kang; Seokjoo Shin</td>
<td>Saurav Dahal (Chosun University, Korea); Junghee Lee and JungMin Kang (ETRI, Korea); Seokjoo Shin (Chosun University, Korea)</td>
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<td>User Authentication Using Mobile Phones for Mobile Payment</td>
<td>Soonhwa Sung; Cheong Youn; Eunbae Kong; Jaecheol Ryoo</td>
<td>Soonhwa Sung (Chungnam National University &amp; Software Research Center(SOREC), Korea); Cheong Youn, Eunbae Kong and Jaecheol Ryoo (Chungnam National University, Korea)</td>
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<td>16:00-18:00</td>
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<td>Identity-based Access Control for Digital Content based on Ciphertext-Policy Attribute-Based Encryption</td>
<td>Win-Bin Huang; Wei-Tsung Su</td>
<td>Win-Bin Huang (National Cheng Kung University, Taiwan); Wei-Tsung Su (Aletheia University, Taiwan)</td>
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<td>An Efficient Defense Mechanism for Spoofed IP Attack in SDN based CDNi</td>
<td>Nishat Mowla; Inshil Doh; Kijoon Chae</td>
<td>Nishat Mowla, Inshil Doh and Kijoon Chae (Ewha Womans University, Korea)</td>
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<td>Selective-Encrypted GIS Vector Map with Low Complexity</td>
<td>Jin-Hyeok Park; Giao Pham Ngoc; Ki-Ryong Kwon; Suk-Hwan Lee</td>
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<td>Detection of Android Ad Library Focusing on HTTP Connections and View Object Redraw Behaviors</td>
<td>Naoya Kajiwara; Junpei Kawamoto; Shinichi Matsumoto; Yoshiaki Hori; Kouichi Sakurai</td>
<td>Naoya Kajiwara and Junpei Kawamoto (Kyushu University, Japan); Shinichi Matsumoto (Institute of Systems, Information Technologies and Nanotechnologies, Japan); Yoshiaki Hori (Saga University, Japan); Kouichi Sakurai (Kyushu University, Japan)</td>
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<td>Key Management Mechanism in ALTO/SDN based CDNI Architecture</td>
<td>Shi Li; Inshil Doh; Kijoon Chae</td>
<td>Shi Li, Inshil Doh and Kijoon Chae (Ewha Womans University, Korea)</td>
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<td>Suguru Doki; Tomohiko Ogishi; Shigehiro Ano</td>
<td>Suguru Doki, Tomohiko Ogishi and Shigehiro Ano (KDDI R&amp;D Laboratories, Japan)</td>
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<td>A Performance Simulator for DDS Networks</td>
<td>Chul Hwan Kim; Gunjae Yoon; Wonjoon Lee; JungDo Park; Hoon Choi</td>
<td>Chul Hwan Kim (Chung-Nam National University, Korea); Gunjae Yoon, Wonjoon Lee, JungDo Park and Hoon Choi (Chungnam National University, Korea)</td>
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<td>An Accountability Model for Internet Transactions</td>
<td>Chian Techapanupreeda; Roongroj Chokngamwong; Supakorn Kungpisidan; Chalee Thammarat</td>
<td>Chian Techapanupreeda and Roongroj Chokngamwong (Mahanakorn University of Technology, Thailand); Supakorn Kungpisidan (Mahidol University, Thailand); Chalee Thammarat (Mahanakorn University of Technology, Thailand)</td>
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<td>A Secure Lightweight Protocol for NFC Communications with Mutual Authentication Based on Limited-Use of Session Keys</td>
<td>Chalee Thammarat; Roongroj Chokngamwong; Supakorn Kungpisidan; Chalee Thammarat</td>
<td>Chalee Thammarat and Roongroj Chokngamwong (Mahanakorn University of Technology, Thailand); Supakorn Kungpisidan (Mahidol University, Thailand); Chian Techapanupreeda (Mahanakorn University of Technology, Thailand)</td>
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<td>Development strategy of disaster-resistant WiFi mesh networks and the disaster monitoring and reporting system in a local area</td>
<td>Makoto Sugita; Hideaki Matsue; Kazuhiro Yamaguchi; Tomohiko Shimodaira; Manabu Shiritori; Satoshi Nanamatsu</td>
<td>Makoto Sugita (Tokyo University of Science, Suwa, Japan); Hideaki Matsue (Tokyo University of Science, Japan); Kazuhiro Yamaguchi (Tokyo University of Science, Suwa, Japan); Tomohiko Shimodaira (Komagane City, Japan); Manabu Shiritori (KISSEI COMTEC, Japan); Satoshi Nanamatsu (Tokyo University of Science, Suwa, Japan)</td>
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<td>Features Extraction of Fluorescent Light Image for Positioning Information Acquisition using Steerable Gaussian Filter</td>
<td>Jun Woo Kim; SoonHo Jung; Min Woo Lee; Juphil Cho; Jaesang Cha</td>
<td>Jun Woo Kim and SoonHo Jung (Seoul National University of Science &amp; Technology, Korea); Min Woo Lee (Seoul National University of Science And Technology, Korea); Juphil Cho (Kunsan National University, Korea); Jaesang Cha (Seoul National University of Science &amp; Technology, Korea)</td>
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<td>A System Model for Energy Efficient Green-IoT Network</td>
<td>Sarder Fakhruil Abedin; Md Golam Rabiu Alam; Choong Seon Hong</td>
<td>Sarder Fakhruil Abedin, Md Golam Rabiu Alam and Choong Seon Hong (Kyung Hee University, Korea)</td>
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<td>Energy Efficient Gathering of Delay Tolerant Sensing Data in Wireless Sensor Networks</td>
<td>Keon-Taek Lee; Sunju Park; Seung-Jae Han</td>
<td>Keon-Taek Lee, Sunju Park and Seung-Jae Han (Yonsei University, Korea)</td>
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<td>A Study of G.711 and ILBC over WLAN 802.11n with EDCA</td>
<td>Rittichai Chanthong; Pongpisit Wuttidittachoti; Therdpong Daengsi</td>
<td>Rittichai Chanthong (King Mongkut's University of Technology North Bangkok, Thailand); Pongpisit Wuttidittachoti (Faculty of Information Technology, King Mongkut's University of Technology North Bangkok, Thailand); Therdpong Daengsi (Faculty of Information Technology, King Mongkut's University of Technology North Bangkok &amp; JADS Comm Ltd., Thailand)</td>
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<td>Location-Aware Utility-Based Routing for Store-Carry-Forward Message Delivery</td>
<td>Tomotaka Kimura; Tsibasa Matsuura; Masahiro Sasabe; Takahiro Matsuda; Tetsuya Takeine</td>
<td>Tomotaka Kimura (Osaka University, Japan); Tsibasa Matsuura (University of Osaka, Japan); Masahiro Sasabe (Nara Institute of Science and Technology, Japan); Takahiro Matsuda and Tetsuya Takeine (Osaka University, Japan)</td>
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<td>Indoor Localization for Sparse Wireless Networks with Heterogeneous Information</td>
<td>Hu Li; Yao-hui Wang; Qi-ming Sun; Jin-nan Liu</td>
<td>Hu Li, Yao-hui Wang and Qi-ming Sun (Beijing University of Posts and Telecommunications, P.R. China); Jin-nan Liu (Hisilicon Huawei Technologies Co., Ltd, P.R. China)</td>
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<td></td>
<td>Comparison of Video Telephony: A Case Study of LINE and Tango over 3G in Bangkok</td>
<td>Patsita Srawongphatsara; Pongpisit Wuttidittachoti; Therdpong Daengsi</td>
<td>Patsita Srawongphatsara (King Mongkut's University of Technology North Bangkok, Thailand); Pongpisit Wuttidittachoti (Faculty of Information Technology, King Mongkut's University of Technology North Bangkok, Thailand); Therdpong Daengsi (Faculty of Information Technology, King Mongkut's University of Technology North Bangkok &amp; JADS Comm Ltd., Thailand)</td>
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<td>Non-Link Switching Broadcasting Visible Light Communication Using Diversity</td>
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<td>Transmission Performance Evaluation for Downlink MU-MIMO System: Computer Simulation with Block Diagonalization Algorithm and Field Experiments based on Mobile WiMAX System</td>
<td>Kazuhiro Yamaguchi; Takaharu Nagahashi; Takuya Akiyama; Hideaki Matsue; Kunio Uekado; Takakazu Namera; Hiroshi Fuku; Satoshi Nanamatsu</td>
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<td>Mobility-Aware Time Delay Compensation Algorithm for Mobile OFDM Systems</td>
<td>Sungho Kwon; Neung-Hyung Lee; Sung-yoon Jung; Sangchul Oh</td>
<td>Sungho Kwon (University of Ulsan, Korea); Neung-Hyung Lee (Seoul National University, Korea); Sung-yoon Jung (Yeungnam University, Korea); Sangchul Oh (ETRI, Korea)</td>
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<td>Adaptive Step Control of LMS-based Interference Cancellation for WMAN ICS Radio Repeater</td>
<td>Jeong Gon Kim</td>
<td>Jeong Gon Kim (Korea Polytechnic University, Korea)</td>
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<td>A Searching Tree-based channel assignment scheme for wireless networks</td>
<td>Xinyu Yang; Ling Ji; Wei Liu</td>
<td>Xinyu Yang (Xi’an Jiaotong University, P.R. China); Ling Ji (Xi’an JiaoTong University, P.R. China); Wei Liu (Xi’an Jiaotong University, P.R. China)</td>
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<td>Development strategy of disaster-resistant WiFi mesh networks and the disaster monitoring and reporting system in a local area</td>
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<td>An Energy-Saving Small-Cell Zooming Scheme for Two-Tier Hybrid Cellular Networks</td>
<td>Yao-Liang Chung</td>
<td>Yao-Liang Chung (National Taipei University, Taiwan)</td>
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<td>A 2D Cooperative Relay Scheme for Machine-to-Machine Communication in the LTE-A Cellular Network</td>
<td>Rung-Shiang Cheng; Chung-Ming Huang; Guan-Shiun Cheng</td>
<td>Rung-Shiang Cheng (Kun Shan University, Taiwan); Chung-Ming Huang (National Cheng Kung University, Taiwan); Guan-Shiun Cheng (Cheng Kung University, Taiwan)</td>
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<td>Resource Management Issues in 5G Ultra Dense Smallcell Networks</td>
<td>Ming-Chin Chuang; Meng Chang Chen; Yeali S. Sun</td>
<td>Ming-Chin Chuang and Meng Chang Chen (Academia Sinica, Taiwan); Yeali S. Sun (National Taiwan University, Taiwan)</td>
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<td>LTE-Advanced Based Handover Mechanism for Natural Disaster Situations</td>
<td>Sayan Kumar Ray; Devatana Deka; Swapan K. Ray; Nurl I Sarker</td>
<td>Sayan Kumar Ray (Manukau Institute of Technology, New Zealand); Devatana Deka (Dynamic Controls, New Zealand); Swapan K. Ray (Jadavpur University, India); Nurl I Sarker (Auckland University of Technology, New Zealand)</td>
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<td>Joint Pricing and Power Allocation for Uplink Macrocell and Femtocell Cooperation</td>
<td>Tuan LeAnh; Choong Seon Hong; Ahsan Kazmi; Thant Zin Oo; Nguyen H. Tran</td>
<td>Tuan LeAnh, Choong Seon Hong, Ahsan Kazmi, Thant Zin Oo and Nguyen H. Tran (Kyung Hee University, Korea)</td>
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<td>OPF: Open Preference and Feature Recommender System</td>
<td>Huey-Ing Liu; Wen-Ching Lin</td>
<td>Huey-Ing Liu and Wen-Ching Lin (Fu-Jen Catholic University, Taiwan)</td>
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<td>Dynamic Load Balancing for Efficient Video Streaming Service Service</td>
<td>Junyeop Kim; Youjip Won</td>
<td>Junyeop Kim and Youjip Won (Hanyang University, Korea); Hyoung Kim, Seungki Park and Taenyoeon Ha (IU Media, Korea)</td>
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<td>Rate Adaptation Scheme for HTTP-based Streaming to Achieve Fairness with Competing TCP Traffic</td>
<td>Jiwoo Park; Kwangsuee Chung</td>
<td>Jiwoo Park and Kwangsuee Chung (Kwangwoon University, Korea)</td>
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<td>An efficient flow classification algorithm in Software-Defined Networking</td>
<td>Seungbum Ju; Kyoungtaek Lee; Jonghun Kim; Jaiyong Lee</td>
<td>Seungbum Ju and Kyoungtaek Lee (Yonsei University, Korea); Jonghun Kim (University of Yonsei, Korea); Jaiyong Lee (Yonsei University, Korea)</td>
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<td>Design Intelligence of Web Application for Internet Direct Consumer-to-consumer Trading</td>
<td>Vincent Chan; Tony Hao Wu; Grantham Pang</td>
<td>Vincent Chan (University of Southhampton, United Kingdom); Tony Hao Wu and Grantham Pang (The University of Hong Kong, Hong Kong)</td>
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<td>Oral 10 : Implementation, measurement and performance analysis (Rainbow)</td>
<td>Wireless Network Performance Evaluation through Emulation: WIMAX Case Study</td>
<td>Razvan Beuran; Muhammad Tariq; Shinsuke Miwa; Yoichi Shinoda</td>
<td>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)</td>
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<td>Federation-less Federation of ProtoGENI and VNode Platforms</td>
<td>Yasuski Kanada</td>
<td>Yasuski Kanada (Hitachi, Ltd., Japan)</td>
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<td>Performance Analysis of Fast Tracking Equalization for SC-OFDMA and OFDM systems under multipath fading environment</td>
<td>Kazuhiro Yamaguchi; Takuya Akiyama; Takahiro Yamaguchi; Takaharu Nagahashi; Hideaki Matsue</td>
<td>Kazuhiro Yamaguchi, Takuya Akiyama, Takahiro Yamaguchi and Takaharu Nagahashi (Tokyo University of Science, Suwa, Japan); Hideaki Matsue (Tokyo University of Science, Japan)</td>
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<td>GFlow: Towards GPU-based High Performance Flow Table Matching in OpenFlow Switches</td>
<td>Kun Qiu; Zhe Chen; Yang Chen; Jin Zhao; Xin Wang</td>
<td>Kun Qiu (Fudan University &amp; School of Computer Science, Fudan University, Shanghai &amp; Engineering Research Center of Cyber Security, P.R. China); Zhe Chen (School of Computer Science, Fudan University &amp; Engineering Research Center of Cyber Security Auditing and Monitoring, Ministry of Education, P.R. China); Yang Chen, Jin Zhao and Xin Wang (Fudan University, P.R. China)</td>
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<td>Room 2</td>
<td>SDN+Cloud integrated control with statistical analysis and discrete event simulation</td>
<td>Seiichi Koizumi</td>
<td>Seiichi Koizumi (NEC Corporation, Japan)</td>
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<td>08:30-09:00</td>
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<td>Oral 11 : Software defined networks (Naga)</td>
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<td>January 14, 2015</td>
<td>A General and Practical Consolidation Framework in CloudNFV</td>
<td>Chuan Pham; Hoang Dai Tran; Seung Il Moon; Kyi Thar; Choong Seon Hong</td>
<td>Chuan Pham and Hoang Dai Tran (Kyung Hee University, Korea); Seung Il Moon (Kyung Hee University, Korea); Kyi Thar and Choong Seon Hong (Kyung Hee University, Korea)</td>
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<td>(Wednesday)</td>
<td>Centralized ARP Proxy Server over SDN controller to Cut down ARP Broadcast in Large-scale Data Center Networks</td>
<td>Hyunjeong Cho; Saehoon Kang; Younghee Lee</td>
<td>Hyunjeong Cho (KAIST, Korea); Saehoon Kang (ETRI, Korea); Younghee Lee (KAIST, Korea)</td>
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<td>09:00-11:00 Room 1</td>
<td>CoopRED:Cooperate RED for Software Defined Network</td>
<td>SeongYoon Jeong; Younghoon Kim; Donghyeok An; Ikjun Yeom</td>
<td>SeongYoon Jeong (Sungkyunkwan Univ, Korea); Younghoon Kim (KAIST, Korea); Donghyeok An (Korea Advanced Institute of Science and Technology, Korea); Ikjun Yeom (Sungkyunkwan Univ, Korea)</td>
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<td>A Feasible Method to combat against DDoS Attack in SDN Network</td>
<td>Nhu-Ngoc Dao; Junho Park; Minho Park; Sungrae Cho</td>
<td>Nhu-Ngoc Dao and Junho Park (Chung-Ang University, Korea); Minho Park (Soongsil University, Korea); Sungrae Cho (Chung-Ang University, Korea)</td>
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<td>Mergeable Flexible Routing Tables: A Design Framework for Reusable Structured Overlay Algorithms</td>
<td>Hiroya Nagao; Kazuyuki Shudo</td>
<td>Hiroya Nagao and Kazuyuki Shudo (Tokyo Institute of Technology, Japan)</td>
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<td>Oral 12 : Routing, QoS and resource management (Rainbow)</td>
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<td>January 14, 2015</td>
<td>Adaptive Routing for Video Streaming with QoS Support over SDN Networks</td>
<td>Tsung-Feng Yu; Kuochen Wang; Yi-Huai Hsu</td>
<td>Tsung-Feng Yu and Kuochen Wang (National Chiao Tung University, Taiwan); Yi-Huai Hsu (Department of Computer Science of National Chiao Tung University, Taiwan)</td>
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<td>(Wednesday)</td>
<td>A Proximal Algorithm for Joint Resource Allocation and Minimizing Carbon Footprint in Geo-distributed Fog Computing</td>
<td>Cuong T. Do; Nguyen H. Tran; Chuan Pham; Md Golam Rabiul Alam; Choong Seon Hong</td>
<td>Cuong T. Do (Kyung Hee University, Korea); Nguyen H. Tran, Chuan Pham, Md Golam Rabiul Alam and Choong Seon Hong (Kyung Hee University, Korea)</td>
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<td>09:00-11:00 Room 2</td>
<td>Efficient Forwarding and Popularity Based Caching for Content Centric Network</td>
<td>Kyi Thar; Thant Zin Oo; Chuan Pham; Saeed Ullah; Choong Seon Hong</td>
<td>Kyi Thar, Thant Zin Oo, Chuan Pham, Saeed Ullah and Choong Seon Hong (Kyung Hee University, Korea)</td>
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<td>Network Independent Mobility Management Scheme using Virtual IP Addressing</td>
<td>Yongseung Lee; Hyunseung Choo; Dongsoo Stephen Kim</td>
<td>Yongseung Lee and Hyunseung Choo (Sungkyunkwan University, Korea); Dongsoo Stephen Kim (Indiana U. Purdue U. Indianapolis, USA)</td>
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<td>Adaptive Beaconing Schemes in VANETs: Hybrid Approach</td>
<td>Syed Hassan Ahmed; Safdar Hussain Bouk; Dongkyun Kim</td>
<td>Syed Hassan Ahmed (Kyungpook National University, Korea); Safdar Hussain Bouk (Kyungpook National University, Daegu &amp; COMSATS Institute of Information Technology, Islamabad, Korea); Dongkyun Kim (Kyungpook National University, Korea)</td>
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<td>Design of Exhibition Contents using Swipe Gesture Recognition</td>
<td>Leeyoen Kim; Jooyong Park; Min Woo Lee; SoonHo Jung; Kyounghoon Kim; Jaesang Cha</td>
<td>Leeyoen Kim and Jooyong Park (Seoul National University of Science &amp; Technology, Korea); Min Woo Lee (Seoul National University of Science And Technology, Korea); SoonHo Jung, Kyounghoon Kim and Jaesang Cha (Seoul National University of Science &amp; Technology, Korea)</td>
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