

**2016 International Conference on
Networking and Network
Applications
(NaNA 2016)**



Conference Program

Hakodate Kukosai Hotel

July 23-25, 2016

Hakodate City, Hokkaido, Japan

Technical Sponsors

Future University Hakodate, Japan

Xidian University, China

Conference Schedule

Date	Time	Conference Program		
2016-7-23	09:00-18:00	Registration at the hall of the Hakodate Kokusai Hotel		
2016-7-24	09:00-09:10	Opening Remarks		
	09:10-10:00	Keynote Speech 1 (Han-Chieh Chao)		
	10:00-10:20	Coffee break		
	10:20-11:10	Keynote Speech 2 (Ben Liang)		
	11:10-12:00	Keynote Speech 3 (Jianwei Huang)		
	12:00-13:20	Lunch		
	13:20-15:40	Session A1	Session B1	Session C1
	15:40-16:00	Coffee break		
	16:00-17:40	Session A2	Session B2	Session C2
	18:00-20:00	Gala		
2016-7-25	09:00-10:10	Session A3	Session B3	Session C3
	10:10-10:30	Coffee break		
	10:30-11:50	Session A4	Session B4	Session C4
	11:50-12:00	Closing Remarks (The meeting is over.)		
	14:00-16:00	TPC Meeting		

Conference Hall: Opening/Keynote Speech/Gala

Room 1: Sessions A1, A2, A3, A4

Room 2: Sessions B1, B2, B3, B4

Room 3: Sessions C1, C2, C3, C4

Greeting Message from General Conference Chairs

Welcome to 2016 International Conference on Networking and Network Applications (NaNA2016)! Welcome to Hakodate, Hokkaido, Japan! We believe that the solid conference program and the amazing city of Hakodate will offer you irresistible attraction.

The NaNA2016 is technically sponsored by Future University Hakodate, Japan, and Xidian University, China. At this very moment, we would like to thank the program committees and the organizing staffs for their hard work. We would like to deliver our appreciation to the keynote speakers for their great contributions to this conference.

This conference aims to gather researchers from different areas and disciplines to present results and participate in discussions under the common themes of Wireless Networks, Optical Networks, Data Center (DC) Networks and Network Applications. It is expected that the interactions provided by the conference will facilitate a better understanding of the diversity of the different approaches as well as of their similarities. In addition, it will open the way for applying approaches that have been successful in one area to problem solving in other different areas and applications.

We wish you will enjoy the successful deliberations, stimulating discussions and new friendships the conference can offer. We look forward to seeing all of you in Hakodate, Hokkaido, Japan.

Pin-Han Ho, University of Waterloo, Canada
Zhenqiang Wu, Shaanxi Normal University, China
Xiaohong Jiang, Future University Hakodate, Japan

July 23, 2016

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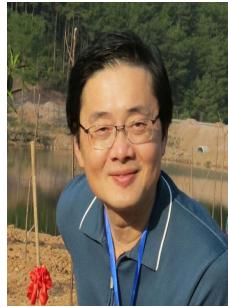
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Keynote Speech 1: Towards 5G Mobile Communication Technology

Han-Chieh Chao

National Ilan University, Taiwan



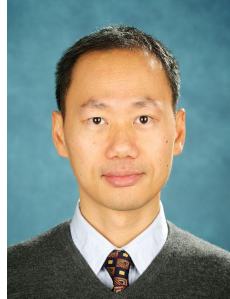
Abstract: The third generation (3G) and fourth generation (4G) of mobile phone mobile communication technology have been widely used and launched in the world. Since the infrastructures like Base Stations (BS) and Evolved Node B (eNBs) are deployed everywhere, efficiency is a vital issue for the fifth generation (5G). However, 5G mobile communication is still just being set up. Some technologies and research issues are announced and investigated. This keynote speech introduces the expectative performance goals of 5G. Then, some potential technologies for 5G cellular mobile communications are discussed, such as Millimeter Wave Communication (mmWave), Non-orthogonal Multiple Access (NOMA), Massive MIMO, Cloud Radio Access Network (C-RAN), Heterogeneous Network (HetNet), and so on. Finally, some tentative 5G scenarios are introduced. Our blueprint for HetNet in 5G is also given, such as Cloud Media on Named Data Network Platform over 5G Mobile Communication, and Software-Defined Wireless Bacteria-Inspired Network over 5G Mobile Communication.

CV: Dr. Han-Chieh Chao is a joint appointed Full Professor of the Department of Computer Science & Information Engineering and Electronic Engineering of National Ilan University, I-Lan, Taiwan (NIU). He is serving as the President since August 2010 for NIU as well. He was the Director of the Computer Center for Ministry of Education Taiwan from September 2008 to July 2010. His research interests include High Speed Networks, Wireless Networks, IPv6 based Networks, Digital Creative Arts, e-Government and Digital Divide. He received his MS and Ph.D. degrees in Electrical Engineering from Purdue University in 1989 and 1993 respectively. He has authored or co-authored 4 books and has published about 400 refereed professional research papers. He has completed more than 100 MSEE thesis students and 4 PhD students. Dr. Chao has been invited frequently to give talks at national and international conferences and research organizations. Dr. Chao is the Editor-in-Chief for IET Networks, Journal of Internet Technology, International Journal of Internet Protocol Technology, and International Journal of Ad Hoc and Ubiquitous Computing. Dr. Chao has served as the guest editors for Mobile Networking and Applications (ACM MONET), IEEE JSAC, IEEE Communications Magazine, IEEE Systems Journal, Computer Communications, IEE Proceedings Communications, the Computer Journal, Telecommunication Systems, Wireless Personal Communications, and Wireless Communications & Mobile Computing. Dr. Chao is an IEEE senior member and a Fellow of IET (IEE).

Keynote Speech 2: Stochastic Geometric Analysis of Handoff Rates in Heterogeneous Wireless Networks

Ben Liang

University of Toronto, Canada



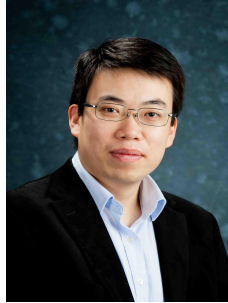
Abstract: Modern wireless networks are characterized by multiple tiers of base stations that often are irregularly placed and transmit with diverse power levels. This multi-tier heterogeneity brings great challenge to the analysis and design of mobile communication systems. In particular, intra-tier and inter-tier handoffs are difficult to quantify due to the highly random cell shapes and arbitrary user movement. In this talk, we present a new analysis framework based on stochastic geometric tools to characterize the rates of all handoff types experienced by an active user. We study several scenarios where the base stations independently form tiers of Poisson point processes or Poisson cluster processes, or cluster together to serve each user cooperatively. We further discuss the tradeoff between handoff rates and data rates when each mobile user is able to select its own base-station tiers or cluster size for network access.

CV: Ben Liang is a professor (July 2012-present) in the Department of Electrical and Computer Engineering, University of Toronto. He received Ph.D. from Cornell University in Electrical Engineering with Minor in Computer Science, August 2001. He has won the awards: Best Paper Award in the ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), 2013 (one award/42 accepted full papers/160 submissions); Finalist for Best Paper Award in the USENIX International Conference on Autonomic Computing (ICAC), 2013 (three finalists/18 accepted full papers/73 submissions); Finalist for Best Paper Award in the IEEE Conference on Computer Communications (INFOCOM), 2010 (three finalists/276 accepted full papers/1575 submissions); Early Researcher Award (ERA), Ontario Ministry of Research and Innovation, 2007; Commendation for teaching excellent in ECE department, spring 2005 and fall 2007; Runner-up Best Paper Award in the International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine), 2006; Best Paper Award in the IFIP Networking Conference, 2005 (one award/106 accepted papers/430 submissions) Intel Foundation Graduate Fellowship, 2000; Lockheed Martin Fellowship in Communication and Information Technologies, 1999; Richard W. Block Award for the highest ranking graduate, Polytechnic University, 1997; William L. Everitt Student Award of Excellence, Polytechnic University, 1997; Weber Scholar, Polytechnic University, 1995 and 1996; He has served as: Co-chair, IEEE Conference on Computer Communications (Infocom) Workshop on Communications and Networking Techniques for Contemporary Video, 2014; etc.

Keynote Speech 3: Incentive Mechanisms for User-Provided Networks

Jianwei Huang

Chinese University of Hong Kong



Abstract: The fast growing mobile data demands and the proliferation of advanced mobile devices lead to the emergence of user-provided networks (UPNs), which improve user experiences by exploiting the diverse communication needs and resources of different users. The success of UPNs, however, relies on carefully designed incentive mechanisms that effectively encourage voluntary participation and cooperation of users. Motivated by recently launched UPN business models, in this talk we will introduce two new mobile UPN incentive mechanisms that take users' energy consumption and data usage costs into consideration. The first one is motivated by the social bandwidth trading scheme pioneered by Karma (<https://yourkarma.com/>), and we design an optimal hybrid pricing scheme that combines usage-based data pricing and quota reimbursement for network-assisted mobile UPNs. The second one is motivated by the crowd-sourced Internet connectivity enabled by OpenGarden (<https://opengarden.com/>), and we design a virtual currency based scheme that incentivizes cooperation in autonomous mobile UPNs.

CV: Jianwei Huang (S'01-M'06-SM'11-F'16) is an Associate Professor and Director of the Network Communications and Economics Lab (ncel.ie.cuhk.edu.hk), in the Department of Information Engineering at the Chinese University of Hong Kong. He received Ph.D. from Northwestern University in 2005, and worked as a Postdoc Research Associate at Princeton University during 2005-2007. His main research interests are in the area of network economics and games, with applications in wireless communications, networking, and smart grid. He is a Fellow of IEEE, and a Distinguished Lecturer of IEEE Communications Society (2015-2016). Dr. Huang is the co-recipient of 8 Best Paper Awards, including IEEE Marconi Prize Paper Award in Wireless Communications in 2011, and Best (Student) Paper Awards from IEEE WiOpt 2015, IEEE WiOpt 2014, IEEE WiOpt 2013, IEEE SmartGridComm 2012, WiCON 2011, IEEE GLOBECOM 2010, and APCC 2009. He has co-authored four books: "Wireless Network Pricing," "Monotonic Optimization in Communication and Networking Systems," "Cognitive Mobile Virtual Network Operator Games," and "Social Cognitive Radio Networks". He is a co-author of six ESI Highly Cited Papers. He received the CUHK Young Researcher Award in 2014 and IEEE ComSoc Asia-Pacific Outstanding Young Researcher Award in 2009. Dr. Huang has served as an Editor of IEEE Transactions on Cognitive Communications and Networking (2015-), Editor of IEEE Transactions on Wireless Communications (2010-2015), Editor of IEEE Journal on Selected Areas in Communications - Cognitive Radio Series (2011-2014), etc.

Session A1 Wireless Networks (1)

2016-7-24 13:20-15:40 Room 1				
Session chair: Zhuxian Lian or Bin Yang				
ID	Time	Title	Author	Type
8	13:20-13:35	A Novel Channel Model for 3-D HAP-MIMO Communication Systems	Zhuxian Lian, Lingge Jiang, Chen He and Qi Xi.	Regular
85	13:35-13:50	Power Allocation Optimization for Full-Duplex D2D Communications Underlying Cellular Networks	Boqun Zuo ; Lingge Jiang ; Chen He ; Zhuxian Lian	Regular
45	13:50-14:05	A Time and Frequency Division Algorithm for Control Signaling Collision Avoidance in Standalone LTE-Unlicensed Networks	Jiying Xu, Yongmei Sun, Yuefeng Ji and Yang Tian	Regular
47	14:05-14:20	Atomic Red-Black Distributed Gauss-Seidel Routing Algorithm for Wireless Sensor Networks	Ren-Song Ko	Regular
89	14:20-14:35	Page Dissemination Modeling and Optimization for Coding-based Reprogramming Protocols in Wireless Sensor Networks	Lina Yang, Shining Li, Weidong Yang, Gang Liu and Jinhui Yuan	Regular
58	14:35-14:50	Delivery Probability of 3D MANETs with Packet Replication	Wu Wang, Bin Yang, Osamu Takahashi, Xiaohong Jiang and Shikai Shen	Regular
68	14:50-15:05	Measurement and Modeling of 3D Spatial Wireless Backhaul Channels in NLOS Scenarios	Ruonan Zhang, Kun Wang, Kaijun Ren, Zhimeng Zhong, Xiaomei Zhang and Xiaoyan Pang	Regular
70	15:05-15:20	A Distributed Prioritized Multiple Access Scheme for Ad Hoc Networks Using Time-Frequency Hopping Communications	Ruonan Zhang, Miao Li, Lin Cai and Bin Li	Regular
77	15:20-15:35	Multicast Delivery Probability of MANETs with Limited Packet Redundancy	Bin Yang, Yulong Shen, Guilin Chen and Yuanyuan Fan.	Regular

Session A2 Wireless Networks (2)

2016-7-24 16:00-17:40 Room 1

Session chair: Bin Li or Shikai Shen

ID	Time	Title	Author	Type
13	16:00-16:10	The Dynamic Linear Combination Retransmission based on Network Coding in Multicast Network	Bin Li, Quan Li, Ruonan Zhang, Yi Jiang and Siying Bi	Short
20	16:10-16:20	Delay-Intolerant Uplink Traffic Aware Timer-based Power Management for Infrastructure IEEE 802.11 WLANs with Unreliable Wireless Links	Shenji Luan ; Yi-Hua Zhu and Kaikai Chi	Short
98	16:20-16:30	A Transceiver Design for Limited feedback AF MIMO Relay System with MMSE-SIC Receiver	Fan-Shuo Tseng and Chao-Yuan Hsu	Short
56	16:30-16:40	An Improved Amorphous Localization Algorithm for Wireless Sensor Networks	Shikai Shen, Bin Yang, Kaiguo Qian, Wu Wang, Xiaohong Jiang, Yumei She and Yujian Wang	Short
105	16:40-16:50	A New Interference Aware Routing Metric for Multi-Radio Multi-Channel Wireless Mesh Networks	Ji Wen Jiang, Wang Yichuan, Liu Yanxiao, Zhu Lei, Ma Weigang and Yang Li	Short
66	16:50-17:00	DEDV: A Data Collection Method for Mobile Sink Based on Dynamic Estimation of Data Value in WSN	Xiaoqing Gong; Xuan Wang; Jun Guo; Anwen Wang, Dan Xu, Na An, Xiaojiang Chen, Dingyi Fang; Xia Zheng	Short
3	17:00-17:10	Backfill: An Efficient Header Compression Scheme for OpenFlow Network with Satellite Links	Yukun Niu, Chaobiao Wu, Lingbo Wei, Bin Liu and Jian Cai	Short
76	17:10-17:20	Bulk-n-Pick Method for One-to-Many Data Transfer in Dense Wireless Spaces	Marat Zhanikeev	Short

Session A3 Wireless Networks (3)

2016-7-25 09:00-10:10 Room 1

Session chair: Xuan Zhou or Gwo-Jong Yu

ID	Time	Title	Author	Type
97	09:00-09:15	Dynamic Power Control for Maximizing System Throughput in Enterprise Femtocell Networks	Xuan Zhou, Gang Wang, Gang Feng, Shuang Qin and Yantao Guo	Regular
95	09:15-09:30	An Auction-based Approach for Hybrid Access in Macro-Femto Networks	Xun Wang, Tingli Mao, Gang Feng and Wei Cao	Regular
119	09:30-09:45	Energy Conservation Scheme for IEEE 802.15.4 Based Battery-free Wireless Sensor Networks	Yi-Hua Zhu, Hangyu Lv, Yanyan Li Li, Ertao Li and Kaikai Chi	Regular

Session A4 Wireless Networks (4)**2016-7-25 10:30-11:50 Room 1****Session chair:** Tzung-Shi Chen or Bo Liu

ID	Time	Title	Author	Type
106	10:30-10:40	Data Collection Scheme Based on Wake-up Mechanism in Body Area Nanonetworks	Bo Liu, Pengfei Lu, Xuanwen Hao, Xiaohong Jiang and Zhengqiang Wu	Short
100	10:40-10:50	Using SDN and NFV to Implement Satellite Communication Networks	Taixin Li, Huachun Zhou, Hongbin Luo, Qi Xu and Yue Ye	Short
78	10:50-11:00	Improved Node Localization for WSN using Heuristic Optimization Approaches	Chin-Shiuh Shieh, Van-Oanh Sai, Yuh-Chung Lin, Tsair-Fwu Lee, Trong-The Nguyen, and Quang-Duy Le	Short
92	11:00-11:10	An Improved Algorithm of Node Credibility management for Lightweight WSN	Liye Peng, Fangwei Wang and Changguang Wang	Short

Session B1 Network Security (1)**2016-7-24 13:20-15:40 Room 2**

Session chair: Yi-Ting Peng Shin-Jer Yang

ID	Time	Title	Author	Type
25	13:20-13:35	Enabling Proximity Call Continuity via Common Neighbor Tunneling for Public Safety in LTE	Sok-Ian Sou, Yi-Ting Peng, Meng-Hsun Tsai and Yinman Lee	Regular
5	13:35-13:50	Analysis of an SEIVR Epidemic Model with Partial Immunization and Nonlinear Infection Rate	Fangwei Wang, Changguang Wang, Dongmei Zhao and Yunkai Zhang.	Regular
30	13:50-14:05	Secure Transmission via Jamming in Wireless Networks with Possion Spatially Distributed Eavesdroppers	Xiang Hu, Xing Zhang, Haozhou Huang and Yongjing Li.	Regular
41	14:05-14:20	Exact Secrecy Throughput of MANETs with Guard Zone	Xiaochen Li, Shuangrui Zhao, Yuanyu Zhang, Yulong Shen and Xiaohong Jiang	Regular
44	14:20-14:35	The Delay-Security Trade-off in Two-hop Buffer-Aided Relay Wireless Network	Xuening Liao, Zhenqiang Wu, Yuanyu Zhang and Xiaohong Jiang	Regular
75	14:35-14:50	Design Issues of Enhanced DDoS Protecting Scheme under the Cloud Computing Environment	Shin-Jer Yang and Yu-Zhan Li	Regular
108	14:50-15:05	A Differential Privacy Incentive Compatible Mechanism and Equilibrium Analysis	Hai Liu, Lin Zhang and Zhenqiang Wu	Regular
103	15:05-15:20	Spoofing Attacks against FM Indoor Localization	Zi Li, Yao Liu, Lei Bai and Qingqi Pei	Regular
107	15:20-15:35	Distributed Secure Service Composition with Declassification in Mobile Network	Ning Xi, Cong Sun, Jianfeng Ma Di Lu and Yulong Shen	Regular

Session B2 Network Security (2)

2016-7-24 16:00-17:40 Room 2

Session chair: Junliang Ma or Shenghui Zhao

ID	Time	Title	Author	Type
93	16:00-16:10	Research of the Enhanced Anti-Xprobe2	Junliang Ma; Xili Wang; Bing Xiao	Short
4	16:10-16:20	Privacy-Preserving Cloud-Based Firewalling for IaaS-based Enterprise	Hualong Sheng , Lingbo Wei , Chi Zhang and Xia Zhang	Short
15	16:20-16:30	A Lightweight and Secure Data Authentication Scheme with Privacy Preservation for Wireless Sensor Networks	Hong Zhong; Lili Shao; Jie Cui	Short
59	16:30-16:40	A Formal Validation Method for Trustworthy Services Composition	Yuemin Li, Shenghui Zhao, Hailun Diao and Haibao Chen	Short
90	16:40-16:50	An efficient range query model over encrypted outsourced data using secure k-d tree	Yanguo Peng, Hui Li, Jiangtao Cui, Yixiao Zhu; Changgen Peng	Short
55	16:50-17:00	Link selection for secure Two-Hop Transmissions in Buffer-Aided Relay Wireless Networks	Ji He; Yuanyu Zhang ; Yulong Shen and Xiaohong Jiang	Short
72	17:00-17:10	Optimal Relay-Destination Pair Selection Mechanism for Secure Communications in Wireless Cooperative Relay Networks	Pinchang Zhang, Yuanyu Zhang , Bin Yang and Xiaolan Liu	Short
104	17:10-17:20	(k,n) Secret Sharing Scheme against Two Types of Cheaters	Yanxiao Liu, Yichuan Wang, Lei Zhu, Jiwen Jiang and Xinhong Hei	Short
113	17:20-17:35	A k-means Based Small Cell Deployment Algorithm for Wireless Access Networks	Gwo-Jong Yu and Kuan-Yi Yeh	Regular
17	17:35-17:45	Scheduling for Data Collection in Multi-hop IEEE 802.15.4e TSCH Networks	Tzung-Shi Chen ; Shu-Yu Kuo; Chia-Hsu Kuo	Short

Session B3 Data Center Networks

2016-7-25 09:00-10:10 Room 2

Session chair: Weidong Lin or Shu Yang

ID	Time	Title	Author	Type
52	09:00-09:15	Minimizing Packet Delay via Load Balancing in Clos Switching Networks for Datacenters	Shu Yang, Shanshan Xin, Zhipeng Zhao and Bin Wu	Regular
121	09:15-09:30	Shared Risk Link Group Enumeration of Node Excluding Disaster Failures	Balázs Vass ; Erika Bérczi-Kovács ; János Tapolcai	Regular
9	09:30-09:45	Using Path Label Routing in Wide Area Software-Defined Networks with OpenFlow	Weidong Lin, Yukun Niu, Xia Zhang, Lingbo Wei and Chi Zhang	Regular
10	09:45-10:00	A Hierarchical Quadtree-Based Link State Routing Scheme for Routing Table Compression	Jingjing Wu, Tianshu Fang, Chang Chen and Chi Zhang	Regular

Session B4 Data Center/Network Applications

2016-7-25 10:30-11:50 Room 2

Session chair: Jiao Wang or Hongxiang Wang

ID	Time	Title	Author	Type
102	10:30-10:40	A Method for Information Security Risk Assessment Based on the Dynamic Bayesian Network	Jiao Wang, Kefeng Fan ,Wei Mo and Dongyang Xu	Short
111	10:40-10:50	A Mechanism for IoT Service Provision Based on Transient Private Cloud	Guilin Chen, Haibao Chen,Huibin Wang and Shenghui Zhao	Short
84	10:50-11:00	A Real-Time Fraud Detection Algorithm Based on Intelligent Scoring for the Telecom Industry	Kun Niu, Haizhen Jiao, Nanjie Deng and Zhipeng Gao	Short
40	11:00-11:10	A Novel Approach of Fault Management and Restoration of Network Services in IoT Cluster to Ensure Disaster Readiness	Bishnu Prasad Gautam, Katsumi Wasaki and Narayan Sharma	Short
24	11:10-11:20	Dual-Wavelength Conversion of 16QAM Signals based on Four Wave Mixing in Semiconductor Optical Amplifier	Hongxiang Wang, Yuqian Yang and Yuefeng Ji	Short
54	11:20-11:30	MVNC: A SDN-based Multi-tenant Virtual Network Customization Mechanism in Cloud Data Center	Kai Li, Chun Wang, Qiwei Shen, Jingyu Wang and Qi Qi	Short

Session C1 Network Applications (1)

2016-7-24 13:20-15:40 Room 3

Session chair: Chin-Feng Lee or Haifeng Li

ID	Time	Title	Author	Type
99	13:20-13:35	EmuStack: An OpenStack-based DTN Network Emulation Platform	Haifeng Li, Huachun Zhou, Hongke Zhang and Bohao Feng	Regular
12	13:35-13:50	ISO/IEEE 11073-based Healthcare Services over IoT Platform using 6LoWPAN and BLE: Architecture and Experimentation	Hyung-Woo Kang, Cheol-Min Kim and Seok-Joo Koh	Regular
14	13:50-14:05	A Pixel Value Ordering Predictor for High-Capacity Reversible Data Hiding	Chin-Feng Lee and Yu-Ju Tseng	Regular
38	14:05-14:20	Cumulative space time coding-based visible light cell identification for large-scale indoor environment	Runmei Zhao, Zhitong Huang, Wei Li and Yuefeng Ji	Regular
51	14:20-14:35	Load Prediction-based Automatic Scaling Cloud Computing	Tao Li, Jingyu Wang, Wei Li, Tong Xu and Qi Qi	Regular
65	14:35-14:50	Dynamic Load-Balancing Mechanism for Software-Defined Networking	Wen-Hwa Liao, Ssu-Chi Kuai and Cheng-Hsiu Lu	Regular
109	14:50-15:05	A Group-based Ternary Query Splitting Protocol for Tag Identification in RFID Systems	Yi Jiang, Ruonan Zhang, Wei Cheng, Bin Li and Wei Sun	Regular
112	15:05-15:20	DFTCP: A TCP-Friendly Delay-Based High-Speed TCP Variant	Xu Zhang, Naijie Gu, Junjie Su and Kaixin Ren	Regular
81	15:20-15:35	A Preliminary Design and Implementation of Location-based Mobile Advertising Schemes with Plot Placement Animation over A cyber-physical system	Ru-Hung Lee, Anyi Chen, Chih-Chung Chiang, Yu-Shan Athena Chen and Chun-Hung Liu.	Regular

Session C2 Network Applications (2)

2016-7-24 16:00-17:40 Room 3

Session chair: Chih-Yung Chang or Shih-Chang Huang

ID	Time	Title	Author	Type
110	16:00-16:10	Using Pinch Technology to Achieve Augmented Reality in Multiple Devices	Chih-Yung Chang, Su-Chu Hsu, Chao-Tsun Chang, Jian-Cheng Chen and Jian-Ning Zeng	Short
11	16:10-16:20	Incremental Mobile Sensor Deploying Method for Intangible Event Region Detection in Wireless Sensor Networks	Shih-Chang Huang, Chao-Che Chang and Hong-Yi Chang	Short
69	16:20-16:30	An Effective Wireless Charger Deployment Method for Complete Coverage in Wireless Chargeable Sensor Networks	Tu-Liang Lin, Sheng-Lin Li, Hong-Yi Chang, Wan-Kun Chang and Yi-Ying Lin	Short
50	16:30-16:45	IPARBC: An Improved Parallel Association Rule based on MapReduce Framework	Hong-Yi Chang, Zih-Huan Hong, Tu-Liang Lin, Wan-Kun Chang and Yi-Ying Lin	Regular
21	16:45-16:55	A Novel Incremental Data Mining Algorithm based on FP-Growth for Big Data	Hong-Yi Chang, Jia-Chi Lin, Mei-Li Cheng and Shih-Chang Huang	Short
18	16:55-17:10	Uplink Shared Resource Scheduling for Device-to-Device Underlay Communication with Least Transmission Power Resource Selection and Guaranteed Link Quality	Jen-Yi Pan, Ko-Wei Chang and Houn-Wei Lin	Regular
71	17:10-17:20	A Parameterized Wildcard Method based on SDN for Server Load Balancing	Tu-Liang Lin, Chen-Hao Kuo, Hong-Yi Chang, Wan-Kun Chang and Yi-Ying Lin	Short
57	17:20-17:30	Achieving full-view barrier coverage with mobile camera sensors	Xiaolan Liu, Bin Yang, Shenghui Zhao and Yuanyuan Fan	Short
114	17:30-17:40	On a Tangible Interface in Interactive Media Display Using Mobile Phones	Kuei-Ping Shih, Su-Chu Hsu, Yen-Da Chen, Yang-Pu Hsiao and Ramon Dario Borja Martinez	Short

Session C3 Network Applications (3)

2016-7-25 09:00-10:10 Room 3

Session chair: Hong-Ren Wang or Hongwei Ye

ID	Time	Title	Author	Type
27	09:00-09:10	On the Design and Implementation of an Innovative Smart Building Platform	Hong-Ren Wang, Chau-Yun Hsu, Ting-Ren Jian and An-Yi Chen	Short
28	09:10-09:20	Cache Management for Adaptive Scalable Video Streaming in Vehicular Content-Centric Network	Yiran Wei, Changqiao Xu, Mu Wang and Jiangfeng Guan	Short
29	09:20-09:30	The Study of Enhance the 4G LTE-A Mobile Network Deployment Efficiency	Hong-Ren Wang, Wu-Ting Liu, Chau-Yun Hsu and Tsung-Sheng Kuo	Short
36	09:30-09:40	Evaluation of the Redundant Traffic Reduction Node Using the Packet Cache Coping with Different Byte Offsets among Streams	Wataru Yokota, Kenji Ichijo and Akiko Narita.	Short
39	09:40-09:50	Autonomous Decision of Function of the Redundant Traffic Reduction Node Using a New IP Option	Tomohiro Yoshida; Yamato Ikeda ; Kenji Ichijo; Akiko Narita	Short
101	09:50-10:00	The Design and Implementation of A NoC System Based on SoCKit	Hongwei Ye, Quan Wang, Pengfei Yang, Wei Li and Zhibin Yu	Short

Session C4 Network Applications (4)

2016-7-25 10:30-11:50 Room 3

Session chair: Xiaoyu Zhang or Xiaoyu Zhang

ID	Time	Title	Author	Type
23	10:30-10:40	Research on Classifying Web Information with Latent Semantic Based on Modified LDA Model	Chunxiao Fan, Tianlin Zhao, Yuexin Wu and Nan Gong	Short
35	10:40-10:50	Utility analysis of network coding for coordinated formation flight in unmanned aerial vehicles	Zhang Xiaoyu , Miao Lin and Shang Tao	Short
49	10:50-11:00	ECCN: An Elastic Customized Cloud Network Platform	Yuze He, Wei Li, Lejian Zhang, Jingyu Wang and Qi Qi	Short
86	11:00-11:10	Optimization of Computation-intensive Applications in cc-NUMA Architecture	Ming Zhang, Naijie Gu and Kaixin Ren	Short
63	11:10-11:20	Unified Software-Defined Online Network Experiment Platform for Campus Education	Siyu Wang, Rentao Gu, Yuefeng Ji, Youqiang Hu, Qize Guo, Yanxia Tan and Chen Meng	Short
19	11:20-11:30	Improved Productivity of Mosaic Image by K-medoids and Feature Selecting Mechanism on a Hadoop-based Framework	Jau-Ji Shen Chin-Feng Lee Kun-Liang Hou	Short

Contact Us

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