

Welcome to the International Conference on Computing, Networking and Communications (ICNC 2014), February 3-6, 2014, Honolulu, Hawaii, USA



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General Chairs, ICNC 2014

On the behalf of the International Conference on Computing, Networking and Communications (ICNC 2014) Executive Committee, we are pleased to welcome you to the ICNC 2014 and the warm, beautiful Honolulu, Hawaii. It has been a real honor and privilege to serve as the General Chairs of this conference. Continuing the successful trend of ICNC'2012 and ICNC'2013, ICNC'2014 has brought together a tremendous and rich diversity of authors and speakers from academia, government and industry around the globe to share ideas and new perspectives on a wide range of computing, communications and networking research. The popularity of the ICNC as a major forum for computing, communications and networking research has started to grow. This year's conference program consists of technical sessions of contributed papers, invited papers, workshops, and tutorials.

ICNC'2014 features three keynote lectures and six plenary lectures by world leaders in the field of computing, communications, and networking. On Tuesday, the conference program starts with the keynote lecture, titled "Software-Defined Access Networks: Unbundled Competitive Broadband", by Professor John M. Cioffi of Stanford University (NAE Member, UK RAE Member, IEEE Fellow). On Wednesday, the conference program starts with the keynote lecture, titled "The Software-Defined Building: A Machine for Living", by Professor Randy Katz of UC Berkeley (NAE Member, ACM/IEEE/AAAS Fellow). On Thursday, the conference program starts with the keynote lecture, titled "Emerging Opportunities and Challenges with Smartphones: Crowdsourcing and User Authentication", by Professor Guoliang Xue of Arizona State University (IEEE Fellow/IEEE Distinguished Lecturer). All of our plenary speakers are distinguished researchers. They are Dr. Nei Kato (Professor, Tohoku University, Japan, IEEE/IEICE Fellow, IEEE Distinguished Lecturer), Dr. Victor C. M. Leung (Professor and TELUS Mobility Research Chair, UBC, Canada, IEEE/CAE Fellow, IEEE Distinguished Lecturer), Dr. Yasunori Mochizuki (Vice President, NEC Corporation, Japan, JSAP Fellow), Dr. Izhak Rubin (Distinguished Professor, UCLA, USA, IEEE Life Fellow).

ICNC'2014 also features six Distinguished Lectures and ten Invited Talks. We are pleased to have the following Qualcomm Distinguished Lecturers: John Apostolopoulos (CTO and Vice President, Cisco, USA, IEEE Fellow/IEEE Distinguished Lecturer); Dennis Goeckel (Professor, University of Massachusetts at Amherst, USA, IEEE Fellow); Lina J. Karam (Professor, Arizona State University, USA, IEEE Fellow); Ayman Naguib (Senior Director, Qualcomm, USA, IEEE Fellow); Panos Nasiopoulos (Dolby Professor, University of British Columbia, Canada, CAE Fellow); Dapeng Oliver Wu (Professor, University of Florida, USA, IEEE Fellow)

We are also pleased to have the following Distinguished Invited Speakers: Fumiyuki Adachi (Distinguished Professor, Tohoku University, Japan, IEEE/IEICE Fellow); Mario Gerla (Professor, University of California, Los Angeles, USA, IEEE Fellow); Yungshiang S. Han (Chair Professor, National Taiwan University of Science and Technology, Taiwan, IEEE Fellow); Robert W. Heath (Professor, University of Texas at Austin, USA, IEEE Fellow); Michel Kadoch (Professor, Ecole de technologie superieure ETS, Canada); Kenichi Mase (Professor Emeritus, Niigata University, Niigata, Japan, IEEE/IEICE Fellow); Zhisheng Niu (Professor, Tsinghua University, China, IEEE/IEICE Fellow, IEEE Distinguished Lecturer); Ness B. Shroff (Ohio Eminent Scholar endowed chair in Networking and Communications, The Ohio State University, USA, IEEE Fellow); Min Song (Program Director, NSF, USA); Xiaodong Wang (Professor, Columbia University, USA, IEEE Fellow).

ICNC'2014 would not be possible without the hard work of many volunteers. We would like to take this opportunity to thank the executive committee members:

TPC Chairs: Peter Muller, IBM, Switzerland; Guan-Ming Su, Dolby Labs, USA; TPC Co-Chairs: Rose Hu, Utah State University, USA; Hai Lin, Osaka Prefecture University, Japan; Nabil J. Sarhan, Wayne State University, USA; Tutorial Chairs: Joel Rodrigues, University of Beira Interior, Portugal; Mea Wang, University of Calgary, Canada; Workshop Chairs: Jong-Seok Lee, Yonsei University, Korea; Walid Saad, University of Miami, USA; Chonggang Wang, InterDigital, USA; Invited Paper Chairs: Jianming Wu, Fujitsu, China; Ai-Chun Pang, National Taiwan University, Taiwan; Panel Chairs: Dilip Krishnaswamy, Qualcomm, USA; Irfan Awan, University of Bradford, UK; Publicity Chairs: Jiang Zhu, Cisco, USA; Lei Shu, Osaka University, Japan; Local/Event Arrangement Chair: Michelle Park, TIA, USA; Yi Zhu, Hawaii Pacific University, USA; Registration Chairs: Jianfei Shao, Maxim, USA; Zehan Wang, Imperial College London, UK; Publication Chair: Bin Wei, AT&T, USA; Song Ci, University of Nebraska-Lincoln, USA; Conference Operation Chairs: Senad Busovaca, CSU, USA; EK Park, CSU Chico, USA; International Chairs: Irene Cheng, Univ. Alberta, Canada; Dacheng Tao, University of Technology Sydney, Australia; Tingkai Wang, London Metropolitan University, UK; Mei-Ling Shyu, University of Miami, USA; and Symposium Chairs:

- Wireless Ad hoc and Sensor Networks: Cheng Li Memorial University of Newfoundland, Canada; Lingjia Liu, University of Kansas, USA; Honggang Wang, University of Massachusetts Dartmouth, USA\
- Communications and Information Security: Shui Yu, Deakin University, VIC, Australia; Kai Zheng, IBM Research Laboratory, China; Yi Xie, Sun Yat-Sen University, China
- Green Computing, Networking, and Communications: Nabil J. Sarhan, Wayne State University, USA; Walid Saad, University of Miami, USA
- Data Storage Technology and Applications: Haitao Xia, LSI Corporation, USA; Yiran Chen, University of Pittsburgh, USA
- Internet Services and Applications: Periklis Chatzimisios, Alexander TEI of Thessaloniki, Greece; Cheng-Hsin Hsu, National Tsing Hua University, Taiwan
- Optical and Grid Computing: Paolo Monti, Royal Institute of Technology, Sweden; Zuqing Zhu, University of Science and Technology of China, China; Ming Xia, Ericsson Research Silicon Valley, USA
- Network Algorithms and Performance Evaluation: David Tipper, University of Pittsburg, USA; Bo Rong, Communications Research Center Canada, Canada; Clara Qian Li, Intel, USA
- Signal Processing for Communications: Xu Zhu, University of Liverpool, UK; Ali Tajer Wayne State University, USA

- Communications QoS and System Modeling: Lydia Y. Chen, IBM Zurich Research Lab, Switzerland; Antonio Pescapè, University of Napoli Federico II, Italy
- Internet Services and Applications: Periklis Chatzimisios, Alexander TEI of Thessaloniki, Greece; Cheng-Hsin Hsu, National Tsing Hua University, Taiwan
- Wireless Networks: Shaowei Wang, Nanjing University, China; Jun Li, Communications Research Centre, Canada; Yan Xin, Samsung, USA
- Mobile Computing and Vehicle Communications: Xiaoyan Hong, University of Alabama, USA; Yan Wei, Peking University, China
- Multimedia Computing and Communications: Abdulmotaleb El Saddik, University of Ottawa, Canada; Vladan Velisavljevic, University of Bedfordshire, UK
- Cloud Computing and Big Data: Jian Tang, Syracuse University, USA; Chonggang Wang, InterDigital Communications, USA; Hongfang Yu, University of Electronic Science and Technology of China, China
- Cognitive Computing and Networking: Wei Yu, Towson University, USA; Jiazheng Zhou, University of Wisconsin-Whitewater, USA; Shilpa Talwar, Intel, USA
- Wireless Communications: Meilong Jiang, InterDigital, USA; Rongxing Lu, University of Waterloo, Canada; Kejie Lu, University of Puerto Rico, USA

It was our great honor and pleasure to accept the responsibilities and challenges of Conference General Chairs. We hope that the conference will provide a stimulating, informative, enjoyable and fulfilling experience to all who attend it.

General Chairs:

Zhensheng Zhang, UCLA, USA

Tomohiko Taniguchi, Fujitsu, Japan

General Co-Chairs:

Khaled El-Maleh, Qualcomm, USA

Hung Nguyen, Aerospace, USA