

Call for papers

Mobile Computing and Vehicle Communications Symposium, ICNC 2013

San Diego, Jan. 28-31, 2013
<http://www.conf-icnc.org/2013>

Symposium Co-chairs

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Scope

Advances in 3G, WiFi, and WiMax technologies have made mobile gadgets an increasingly popular means of Internet access. Deployment of 4G networks and releases of new smart phones and tablets will undoubtedly raise the demand for better signal coverage, faster transmission, and seamless adaptation. One emerging research direction is wireless access virtualization, in which a group of access points collaboratively provide the illusion of a single wide-coverage access point to simplify connection management on the client side. While enjoying the benefits of accessing information at any time from anywhere, data transmitted over the wireless medium are more susceptible to eavesdropping and packet sniffing. This raises the concerns for data authentication and privacy issues. These technical challenges are aggravated by the proliferation of various cloud services, social networking platforms, and smart connected vehicles.

This symposium is devoted to covering original contributions in the design, development, and analysis of novel architectures, platforms, protocols, and applications in mobile computing and vehicle communications. Topics of interest include, but are not limited to:

- Novel applications, and services for mobile computing and vehicle communications
- Architectures, platforms, and test beds of mobile computing and vehicle communications
- Performance characterization of mobile computing platforms
- User interfaces and systems design for mobile applications
- Mobile and/or vehicle ad hoc networks and sensor networks
- Wireless channel and media access control protocols
- Wireless access virtualization
- Resource management for heterogeneous access networks
- Service integration and inter-networking
- Practical solutions for security and privacy issues
- Analysis and solutions addressing scalability and reliability issues
- Novel mobility schemes and analysis of existing solutions
- Implementation of mobile IP and migration of IPv6
- Cloud-assisted mobile computing and vehicle communications
- Quality of service for mobile or in-vehicle media and interactive applications
- Vehicular networking and communications for intelligent transportation system

Submission Guidelines

Please follow the author instructions at <http://www.conf-icnc.org/2013/author.htm>

Paper submission link for this symposium can be found at <http://www.conf-icnc.org/2013/cfp.htm>

Short biography of co-chairs

Mea Wang

Mea Wang is currently an Assistant Professor in the Department of Computer Science at the University of Calgary. She received her Bachelor of Computer Science (Honours) degree from the Department of Computer Science, University of Manitoba, Canada, in 2002. She received her Master of Applied Science and Ph.D. degrees from the Department of Electrical and Computer Engineering at the University of Toronto, Canada, in 2004 and 2008, respectively. Her research interests include peer-to-peer networking, multimedia networking, cloud computing and networking system design and development. Her work on practical network coding for P2P multimedia streaming system, "R2: Random Push with Random Network Coding in Live Peer-to-Peer Streaming," has been highly recognized and won the 2009 Multimedia Communications Best Paper Award.

Xiaoqing Zhu

Xiaoqing Zhu is currently a member of the Advanced Architecture & Research Department at Cisco Systems Inc. She received the B.Eng. degree in Electronics Engineering from Tsinghua University, Beijing, China, in 2001. She received both the M.S. and Ph.D. degrees in Electrical Engineering from Stanford University, California, USA, in 2002 and 2009, respectively. She interned at the IBM Almaden Research Center in 2003, and at Sharp Labs of America in 2006. Dr. Zhu was awarded the Stanford Graduate Fellowship from 2001 to 2005. She received the best student paper award in ACM Multimedia 2007. Her research interests lie at the intersection of multimedia signal processing, communications, and networking.