

Title:

Mobile Computing and Vehicle Communications

Abstract:

Mobile computing is more ubiquitous today when smartphones and other consumer electronic devices become the primary access devices to the Internet. Mobile cloud computing further the integrations of personal computing, distributed computing, cloud computing, and wireless technologies.

One of the challenging areas is the vehicle communications and the enabled applications. The continuously increasing interactions between communications, computing and sensing devices in vehicle systems have introduced many interesting yet difficult issues in diverse research areas including computing platform, connectivity, routing and broadcast, channel and link access, collaborations, capacity planning, scheduling, security and privacy preservation, and so on.

Scope and Topics:

This symposium is devoted to cover original contributions in the design, development, and analysis of key techniques related to architectures, platforms, algorithms/protocols and applications in the joint areas of mobile computing and vehicle communications. Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. Topics of interest include, but are not limited to:

- ✧ Mobile vehicular social networks
- ✧ Cloud-assisted vehicle communications
- ✧ Architecture of mobile networks and host
- ✧ Information systems and applications for intelligent transportation system
- ✧ Channel measurement and modeling for V2V or V2I channels
- ✧ V2V or V2I protocols in vehicular networks and communications
- ✧ Vehicle ad hoc networks and Vehicle sensor networks
- ✧ 5G enabling V2V or V2I systems
- ✧ Wireless channel and media access control protocols
- ✧ Mobile IoT
- ✧ Wireless access virtualization and resource management in mobile environments
- ✧ Performance modeling and characterization in mobile environments
- ✧ Mobility management, analysis and vehicle traffic analysis
- ✧ Quality of service for mobile communication systems and interactive applications
- ✧ Economics of vehicular communications and intelligent transportation system
- ✧ System evaluation methodologies and testbed experiments and measurements
- ✧ Security, scalability, and reliability in mobile communication system
- ✧ Data management and analysis in mobile environments

- ✧ Inter-networking between mobile communication systems
- ✧ Application and service in wireless sensor networks
- ✧ Novel applications, services, and mobile cloud computing supporting the mobile environments

Program Committee Chairs:

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Guangchi Liu is currently a research scientist in the research & development department of Stratifyd, Inc., Charlotte, NC, USA. He received his Ph.D. in Computer Science from Montana State University, USA. His research interests include Internet of things, trust assessment, social network, and wireless sensor network.

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Qing Yang is an Assistant Professor in the Department of Computer Science and Engineering at University of North Texas. He received his Ph.D. degree in Computer Science from Auburn University in 2011. He received B.S. and M.S. degrees in Computer Science from Nankai University and Harbin Institute of Technology, China, in 2003 and 2005, respectively. His research interests include Internet of Things, vehicular networks, security and privacy.

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