

Call for papers

Mobile Computing and Vehicle Communications (MCVC) Symposium

ICNC 2019

Honolulu, Hawaii, USA, Feb 18-21, 2019

<http://www.conf-icnc.org/2019/>

Symposium Co-chairs

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Scope

Mobile computing is more ubiquitous today as smart phones and other consumer electronic devices become the primary means to access the Internet. The emerging concepts of 5G and mobile cloud computing have also accelerated the integration of personal computing, distributed computing, cloud computing, and wireless technologies. Another important domain of research is vehicle communications where continuously increasing interactions between communications, computing and sensing in vehicular systems have introduced many interesting, yet challenging, issues in diverse research areas such as computing platform, connectivity, routing and broadcast, channel and link access, cooperation, capacity planning, scheduling, and security and privacy preservation.

This symposium is devoted to cover original contributions in the design, development, and analysis of key technological issues 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 Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited.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:

- Novel applications, services, and cloud computing for mobile environments
- Cloud-assisted vehicle communications
- Mobile vehicular social networks
- Architecture of mobile networks and host
- Information systems and applications for intelligent transportation systems
- Channel measurement and modeling for V2V or V2I channels
- V2X protocols in vehicular networks and communications
- Vehicle ad hoc networks and Vehicle sensor networks
- 5G enabling V2X 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
- Scalability and reliability in mobile communication system
- Security and privacy in mobile computing environments
- Data management, analysis, and compression in mobile environments and for vehicle

communications.

- Inter-networking between mobile communication systems
- Application and service in wireless sensor networks

Submission Guidelines

Please follow the author instructions at <http://www.conf-icnc.org/2019/author.htm>

Direct paper submission for this symposium can be found at <http://www.conf-icnc.org/2019/cfp.htm>

Short biography of co-chairs

Carla Fabiana Chiasserini is an Associate Professor with the Department of Electronic Engineering and Telecommunications at Politecnico di Torino. She graduated from the University of Florence in 1996 and received her Ph.D. from Politecnico di Torino in 2000. She worked as a visiting researcher at UCSD in 1998-2003, and as a visiting professor at Monash University in 2012 and 2016. Her research interests include architectures, protocols, and performance analysis of wireless networks. Dr. Chiasserini has published over 300 papers in prestigious journals and leading international conferences, and she serves as Associate Editor of several journals. Dr. Chiasserini is an IEEE Fellow.

Lina Karam, IEEE Fellow, is a Professor, Computer Engineering Director, and the Director of the R&D Image, Video, and Usability (IVU) Lab at Arizona State University. Dr. Karam is a recipient of the National Science Foundation CAREER Award, NASA Technical Innovation Award, the Intel Outstanding Researcher Award, and IEEE SPS Best Journal Paper Award. Her industrial experience includes image and video processing and compression development at AT&T Bell Labs (Murray Hill), multi-dimensional data processing and visualization at Schlumberger, and collaborations on computer vision, machine learning, image/video processing, compression, and communications projects with various other industries. Dr. Karam served on several journal editorial boards and conference organizing committees and as the General Chair of IEEE ICIP 2016. She is an elected member of the IEEE SPS Board of Governors.

Takamasa Higuchi is a Researcher at the Network Division of Toyota InfoTechnology Center, U.S.A., Inc. in Mountain View, California. He received his B.E., M.E. and Ph.D. degrees in Information Science from Osaka University, Japan, in 2010, 2012 and 2014, respectively. He worked as an Assistant Professor at Osaka University from 2014 to 2015, during which he was also engaged in research projects at the University of California, Los Angeles, as a visiting researcher. Previously, he also held a Researcher position at Toyota InfoTechnology Center Japan. His research interests include vehicular networking and mobile / distributed computing.

Junfeng Wang is a Professor with the College of Computer Science and the School of Aeronautics & Astronautics at Sichuan University. He received the M.S. degree in Computer Application Technology from Chongqing University of Posts and Telecommunications in 2001 and Ph.D. degree in Computer Science from University of Electronic Science and Technology of China in 2004. He held a postdoctoral position in Institute of Software, Chinese Academy of Sciences from 2004 to 2006, and worked as a visiting scholar at University of Illinois at Urbana-Champaign (UIUC) from 2014 to 2015. His research interests include protocols and performance evaluation of space information network, aeronautical Ad Hoc networks, and software and system security. He serves as Associate Editor of several journals.