

The 6th International Workshop on Urban Computing (UrbComp 2017)

August 14, 2017 – Halifax, Nova Scotia, Canada Held in conjunction with [KDD 2017](#)

Website: <http://urbcomp.ist.psu.edu/2017>

Aims and Scope

Urban computing is a process of acquisition, integration, and analysis of big and heterogeneous data generated by a diversity of sources in urban spaces, such as sensors, devices, vehicles, buildings, and human, to tackle the major issues that cities face, e.g. air pollution, increased energy consumption and traffic congestion. Urban computing connects unobtrusive and ubiquitous sensing technologies, advanced data management and analytics models, and novel visualization methods, to create win-win-win solutions that improve urban environment, human life quality, and city operation systems. Urban computing also helps us understand the nature of urban phenomena and even predict the future of cities.

This workshop provides the professionals, researchers, and practitioners who are interested in sensing/mining/understanding urban data with a platform, where they can discuss and share the state-of-the-art of urban computing development and applications, present their ideas and contributions, and set future directions in emerging innovative research for urban computing. Representative projects and literatures can be found on [this website](#).

Topics of Interests

Topics of interest include, but not limited to, the follows:

- Data mining for urban planning and city configuration evaluation
- Mining urban environmental, pollution, and ecological data
- Knowledge discovery from sensor data for saving energy and resources
- Data mining for sustainable and intelligent cities
- Urban sensing and city dynamics sensing
- Knowledge fusion from data across different domains
- City-wide traffic modeling, visualization, analysis, and prediction
- City-wide human mobility modeling, visualization, and understanding
- City-wide intelligent transportation systems
- Anomaly detection and event discovery in urban areas
- Mining urban economics
- Social behavior modeling, understanding, and patterns mining in urban spaces
- City-wide mobile social applications in urban areas
- Location-based social networks enabling urban computing scenarios
- Smart recommendations in urban spaces
- Intelligent delivery services and logistics industries in cities
- Mining data from the Internet of things in urban areas
- Managing urban big data on the cloud
- Interactive visual data analytics for urban computing

Program Chairs

[Yu Zheng](#), Microsoft Research, China

[Jieping Ye](#), DiDi Chuxing, China

[Zhenhui \(Jessie\) Li](#), Penn State University, USA

General Co-Chairs

[Ouri E. Wolfson](#), University of Illinois at Chicago, USA

[Qiang Yang](#), Hong Kong University of Science and Technology

[Philip Yu](#), University of Illinois at Chicago, USA

Program Committee

- Jie Bao, Microsoft Research, China
- Licia Capra, University College of London, UK
- Sanjay Chawla, University of Sydney, Australia
- Francesco Calabrese, IBM Research & Development
- Marta C. González, MIT, USA
- Ralf Hartmut Guting, University of Hagen, Germany
- Yan Huang, University of North Texas
- Patrick Jaillet, MIT, USA
- Hans-Peter Kriegel, University of Munich, Germany
- John Krumm, Microsoft Research Redmond, USA
- Chang-Tien Lu, Virginia Tech, USA
- Samuel Madden, MIT, USA
- Cecilia Mascolo, University of Cambridge, UK
- Alexei Pozdnoukhov, U. C. Berkeley, USA
- Daniele Quercia, Yahoo Lab. Spain.
- Claudio T. Silva, New York University, USA
- Xing Xie, Microsoft Research Asia, China
- Hui Xiong, Rutgers, the State University of New Jersey
- Hai YANG, The Hong Kong University of Science and Technology
- Nicolas Jing Yuan, Microsoft Research, China
- Daqing Zhang, Institute TELECOM SudParis, France
- Junbo Zhang, Microsoft Research, China

Important Dates

Paper submission due: **May 21, 2017**

Paper notification: June 18, 2017

Camera-ready due: June 30, 2017

Submissions

We solicit submissions up to 9 pages (the last page can only hold references) in a single PDF file including all content, figures, tables, and references, following ACM templates at <http://www.acm.org/sigs/pubs/proceed/template.html>, via the [submission website](#) before the submission deadline. **Selected workshop papers will be invited to ACM Transactions on Intelligent Systems and Technology.** Other papers will not be included in any digital libraries. Authors own the copyright of these papers and can submit these papers to other places in the future.