

# The International Workshop on Urban Computing (UrbComp 2012)

August 12, 2012 - Beijing, China, Held in conjunction with [KDD 2012](#)

Website: <http://www.cs.uic.edu/~urbcomp2012/>

## Aims and Scope

With the rapid process of urbanization and civilization on earth, urban computing is emerging as a concept where every sensor, device, person, vehicle, building, and street in the urban areas can be used as a component to probe city dynamics to further enable city-wide computing for serving people and their cities. In addition, urban computing aims to deeply understand the nature and sciences behind the phenomenon occurring in urban spaces. Here, city dynamics include traffic flows, human mobility, environment, energy consumption, and economics, represented by a variety of real-world datasets, e.g., users' mobile phone signal, GPS traces of vehicles and people, ticketing data in public transportation systems, user-generated content (like tweets, micro-blog, check-ins, photos), data from transportation sensor networks (camera and loop sensors) and environment sensor networks (temperature and air quality), as well as data from the internet of things. So, we are ready for carrying out real urban computing activities that lead to better and smarter cities. By better sensing and mining city dynamics we are more likely to design effective strategies and intelligent systems for improving urban lives.

This workshop provides the professionals, researchers, and practitioners who are interested in sensing/mining/understanding city dynamics 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:

- Urban sensing and city dynamics sensing
- City-wide traffic modeling, visualization, analysis, and prediction
- City-wide human mobility modeling, visualization, and understanding
- Urban computing for urban planning and city configuration evaluation
- Urban environment/pollution/energy consumption monitoring and data analysis
- City-wide intelligent transportation systems
- Anomaly detection and event discovery in a city
- Discover regions of interests and regions of different functions
- Mining public transportation data, such as ticketing data in bus and subway systems, road pricing data, and taxi data
- 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 in cities
- Mining data from the Internet of Things

## General Chair

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

## Program Chair

[Yu Zheng](#), Microsoft Research Asia

## Program Committee

- [Licia Capra](#), University College of London, UK
- [Sanjay Chawla](#), University of Sydney, Australia
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- [Francesco Calabrese](#), IBM Research & Development
- [Giannotti Fosca](#), University of Pisa, Italy
- [Ralf Hartmut Guting](#), University of Hagen, Germany
- [Yan Huang](#), University of North Texas
- [Patrick Jaillet](#), MIT, USA
- [Hans-Peter Kriegel](#), University of Munich, Germany
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- [Wen-Chih Peng](#), National Chiao Tung University, Taiwan
- [Daniel B. Work](#), UIUC, USA
- [Xing Xie](#), Microsoft Research Asia, China
- [Hui Xiong](#), Rutgers, the State University of New Jersey
- [Hai YANG](#), The Hong Kong Uni. of Science and Technology
- [Daqing Zhang](#), Institute TELECOM SudParis, France

## Important Dates

Paper submission due: **May 27, 2012**

Paper Notification: June 12, 2012

Camera-ready due: June 14, 2012

## Submissions

We solicit submissions up to 8 pages in a single PDF file including all content, figures, tables, and references, following ACM camera-ready templates available at: <http://www.acm.org/sigs/pubs/proceed/template.html>, via the [submission website](#) before the submission deadline. Each paper will be assigned to three reviewers for a peer review. All accepted papers will be included in the ACM digital library.

## Awards and Journal Publications

We will set one best paper award according to the review results and presentation of a paper. **All the full papers accepted by UrbComp 2012 will be invited to the [special issue on urban computing](#) at ACM Transaction on Intelligent Systems and Technology (ACM TIST) if the authors would like to expand a paper by adding 25 percent significantly new materials.** The journal review will take into account the workshop review of a paper. This will not be considered as a double submission.