The 2ⁿᵈ International Workshop on Urban Computing (UrbComp 2013)

August 11, 2013 - Chicago, USA, Held in conjunction with KDD 2013

Website: http://www.cs.uic.edu/~urbcomp2013/

Aims and Scope

With the rapid process of urbanization, 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 behind the phenomenon occurring in urban spaces. Here, city dynamics include traffic flows, human mobility, the 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 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. 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
- Urban economy modeling based on data analytics

General Co-Chairs

Steven E. Koonin, New York University

Ouri E. Wolfson, University of Illinois at Chicago

Program Chair

Yu Zheng, Microsoft Research Asia

Program Committee

- Alexandre M. Bayen, U. C. Berkeley, USA
- Licia Capra, University College of London, UK
- Sanjay Chawla, University of Sydney, Australia
- Baoquan Chen, Institute of Advanced Computing and Digital Engineering, China
- Francesco Calabrese, IBM Research & Development
- Giannotti Fosca. University of Pisa, Italy
- Marta C. González, MIT, USA.
- Ralf Hartmut Guting, University of Hagen, Germany
- Yan Huang, University of North Texas
- Patrick Jaillet, MIT, USA
- Samuel Madden, MIT, USA
- Wen-Chih Peng, National Chiao Tung University, Taiwan
- Alexei Pozdnoukhov, National Centre for Geocomputation
- Claudio T. Silva, New York University, USA
- 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 24, 2013**

Paper Notification: June 12, 2013

Camera-ready due: June 18, 2013

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. A number of selected quality papers will be invited to an international journal.