The 4th International Workshop on Urban Computing (UrbComp 2015)

August 10, 2015 – Sydney, Australia, Held in conjunction with KDD 2015

Website: http://www2.cs.uic.edu/~urbcomp2013/urbcomp2015/index.html

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:

- Urban informatics: acquisition, aggregation, and analysis of big data
- City-wide traffic modeling, 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
- Social behavior modeling, understanding, and patterns mining in urban spaces
- Discover regions of interests and of different functions
- Mining public transportation data, such as ticketing data in bus and subway systems and taxi data
- 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 in urban areas

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- Kevin Zheng, University of Queensland, Australia

Important Dates

Paper submission due: **June 5, 2015**

Paper notification: June 30, 2015

Camera-ready due: July 15, 2015

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 published at the special issue on urban computing at IEEE Transaction on Big Data**. 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.