Call for Papers
ACM Transactions on Data Science (ACM TDS)
Special Issue on Urban Computing and Smart Cities

Overview

Over recent years, the urban networks infrastructure has undergone a fast expansion, which increasingly generates a large amount of data, such as human mobility data, human transactions data, regional weather and air quality data, social connection data. These heterogeneous data sources convey rich information about a city and can enable intelligent solutions to solve various urban challenges, such as urban facility planning, air pollution, etc. While On one hand, these big urban data can help us to tackle big urban challenges, on the other hand, it is challenging how to manage, analyze, and make sense of the big urban data.

The Urban Computing and Smart Cities special issue aims to publish work on multidisciplinary research across the areas of computer science, electrical engineering, environmental science, urban planning and development, social sciences, operation research, and industrial engineering on technologies, case studies, novel approaches, and visionary ideas related to data science solutions and data-driven applications to address real world challenges for enabling smart cities.

Topics of Interests

We invite the submission of high-quality manuscripts reporting relevant research in the area of collecting, managing, mining, and understanding various urban data. Topics of interest include, but are not limited to:

- Urban big data acquisition and cleaning for smart cities;
- Urban big data management and query processing;
- Infrastructures and warehouse Big data for smart cities
- Urban big data computing and analytics;
- Urban human behavior analysis and cyber-control;
- Urban planning with big data evaluation and assessment;
- Data mining and machine learning algorithms for urban computing;
- Data-driven smart transportation design;
- Smart building big data analytics;
- Urban big data security and privacy;

Submissions

Manuscripts shall be sent through the ACM TDS electronic submission system at https://mc.manuscriptcentral.com/tds (please select "Special Issue: Urban Computing and Smart Cities" as the manuscript type). Submissions shall adhere to the ACM TDS instructions and guidelines for authors available at the journal web site: http://tds.acm.org. The papers will be evaluated for their originality, contribution significance, soundness, clarity, and overall quality. The interest of contributions will be assessed in terms of technical and scientific findings, contribution to the knowledge and understanding of the problem, methodological advancements, and/or applicative value.

Important Dates:

Paper submission due: **Jun. 15, 2019**
Initial review Feedback: **Aug. 15, 2019**
Revision Due: **Nov. 15, 2019**
Final review decision: **up to two months after revision is received.**

Guest Editors

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