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# ACM Transactions on Data Science

## *Special Issue on Urban Computing and Smart Cities*

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### Overview

In recent years, the urban networks infrastructure has undergone a rapid expansion that 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 the one hand, these big urban data can help us to tackle big urban challenges, on the other, it is challenging to manage, analyze, and make sense of this information.

This special issue on Urban Computing and Smart Cities 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 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 must be submitted through the *ACM Transactions on Data Science* electronic submission system at <https://mc.manuscriptcentral.com/tds> (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: <https://tds.acm.org>. 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: **June 29, 2019**

Initial review feedback: **August 15, 2019**

Revision due: **November 15, 2019**

Final review decision: **January 15, 2020**