

Call for Papers

ACM Transactions on Intelligent Systems and Technology (ACM TIST)

Special Issue on

Urban Intelligence

The past decades saw the rapid development of cities and the boom of urban population, but also the rise of many urban issues, such as traffic congestion, energy shortage, and pollution. The situation is continuing: as predicted by the United Nations, the world's urban population will add another 2.5 billion by 2050, an increase of 66% over today's total population. While the pressure on resources is unprecedented, increasing volume and diversity of data is at the same time being generated and collected with the help of new technologies. This calls for the integration of advanced information and computational technologies to develop intelligent solutions for urban issues. Indeed, there has been a variety of research in the AI community pioneering in applying AI and data science to the practice of urban computing. These include the development of smart communities, smart home automation, intelligent transport systems, smart vehicle sharing systems, data-driven routing systems, smart grids, and smart energy solutions.

The objective of the special issue is to highlight leading work in urban intelligence, to identify challenges, and to explore future topics in this area. We invite high quality submissions aiming at addressing urban issues via intelligent systems and technologies. Topics of interest include but not limited to:

- Intelligent transport and traffic systems
- Smart environment and resource management
- Smart energy solutions and smart grids
- Computational game theory for smart city
- Smart city management and governmental policy-making
- Smart sharing systems and sharing economy
- Smart home automation
- Data-driven urban planning and parametric urban design
- Social interaction and human behavior in cities
- Smart urban health care

Submissions

Online Submission (available in [October 1, 2016](#)): <http://mc.manuscriptcentral.com/tist> (please select "Special Issue: Urban Intelligence" as the manuscript type)

Details of the journal and manuscript preparation are available on the website: <http://tist.acm.org/>

Each paper will be peer-reviewed by at least three reviewers.

Important Dates

- Full Paper Submission Deadline: December 1, 2016
- Review Notification: February 1, 2017
- Final Manuscript: May 1, 2017
- Publication Date: Summer/Fall, 2017

Guest Editors

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- Nick Jennings (Imperial College, n.jennings@imperial.ac.uk)
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