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SPECIAL ISSUE ON
Special Issue on Urban Computing in Mobile Environment (UCME)

Overview:

Over the last few years, owing to the acceleration of urbanization and the rapid development of mobile Internet, mobile devices have become an indispensable part of people's life and continuously produce various types of heterogeneous data. In the meantime, a large volume of data has been generated by a diversity of sources in urban spaces, such as mobile devices, sensors, vehicles, buildings, and human. These data, if improperly stored, published, processed and protected, could not only lead to waste of data resources but also lead to privacy disclosure, from which attackers who can mine privacy from such large volume of data. On the contrary, like a treasure waiting to be extracted, properly acquiring, storing, publishing, integrating and analyzing these data can help to preserve privacy hidden in the data and to tackle issues that cities faced, such as air pollution, traffic congestion, and urban planning.

In order to gain the insight of these data, the urban computing is needed to manage, publish, model data, help analyze and predict various urban phenomena, improve the quality of life, and help urban managers to carry out urban planning and construction. However, mobile devices also bring challenges and opportunities to traditional urban computing. Under the limited capacity, limited power and mobile environment, how to process and utilize the continuously generated data from the mobile devices in real time, so as to protect privacy from the source while providing instant services for people more quickly and accurately, has brought great challenges for both urban computing and mobile computing.

The aims of this special issue are (1) to present the state-of-the-art research on urban computing, (2) to present the state-of-the-art research on urban mobile computing as well as privacy protection and (3) to provide a forum for experts to disseminate their recent advances and views on future perspectives in the field.

Topics

In this special issue, we will invite papers that present new theories, methods and techniques applied to urban computing. We particularly encourage papers demonstrating novel strategies for modeling, analyzing and predicting all aspects of urban big data in mobile environment. Topics of interest include, but are not limited to, the following scope:

- Recommendation system based on urban big data
- Urban Computing with SOA Framework
- Urban Computing with Service Recommendation
- Urban Computing with Service Software Engineering
- Urban Computing with Machine Learning and AI
- Urban big data publish
- Urban big data privacy protection
- Urban planning with big data
- Urban traffic modeling, analysis and prediction in mobile environment
- Urban intelligent transportation systems in mobile environment
- Urban crowd behavior modeling, analysis and prediction in mobile environment
- Urban meteorological modeling, analysis and prediction in mobile environment

Important Dates

- Manuscript submission deadline: Nov. 20, 2019
- Notification of acceptance: Dec. 5, 2019
- Submission of final revised paper: Jan. 5, 2019
- Publication of special issue (tentative): Jan. 25, 2020

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>.

Paper via CFP should be original work and has not been submitted or will not be submitted elsewhere without a notification/explanation.

Papers will be evaluated on their merits, contribution to the service/cloud computing field, suitability to the special issue, and overall quality. All papers will be rigorously referred by MONET reviewers. Submission of a manuscript to this special issue implies that no similar paper is already accepted or will be submitted to any other conference or journal.

A copy of the manuscript should also be emailed to the Guest Editors at the following email address: xxyang@sspu.edu.cn.

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