Call for Papers

Special Issue of SN Computer Science **Tackling Real-Time Contextual Data Collection in Smart Cities**

Submission deadline: 31st of December 2019

Link to the call:

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With rapid urban population growth, scarcity of natural resources, globalization, and increased competition, cities around the world face important challenges in relation to maintaining sustainable development and a high quality of life for their citizens. The concept of smart cities has emerged to tackle those challenges by focusing on the integration of design and technology in the urban fabric to achieve a better quality of life, and enable people to live in the smartest, most efficient, and most sustainable way possible. To achieve that goal, smart cities leverage the capabilities of technological infrastructures, populations, and institutions and revolve around four main aspects: 1) Sustainability; 2) Quality of life; 3) Ur-ban development; and 4) Intelligence. In order to tackle the intelligence aspect of smart cities, one of the key functions required pertains to the continuous monitoring of assets. This function implies the ability to continuously monitor and track the city related assets, people, and objects, and use their data as intelligence for the streamlining of the operation of the city and the improvement of its performance. For instance, data and intelligence about the city can be used for traffic management, resource consumption forecasting, and the optimization of the operation of municipal services. One to the challenges associated with the continuous monitoring of assets relates to the collection of real time contextual data about the city related assets and people, in a scalable, resource efficient, and timely manner.

In this call for papers, we invite theoretical, empirical, practical and review papers, whether qualitative or quantitative, from researchers, practitioners, and policy-makers across disciplines on the following issues in relation to real time contextual data collection in smart cities:

- Approaches and solutions for the real time collection of contextual data in smart cities.
- Social media data mining as source of information for smart cities' operation.
- Sentiment analysis as means of monitoring smart cities' events.
- Ethical debates in smart cities relating to the privacy concerns associated with the continuous monitoring of people and assets.

These themes are only indicative.

The deadline for submissions is 31st of December 2019. Accepted papers are expected to be published in 2020. All enquiries regarding the special issue should be sent to: maielbarachi@uowdubai.ac.ae or kshaalan@acm.org