Special Issue

Mobile Crowdsensing in Smart Cities

Message from the Guest Editors

Mobile Crowdsensing (MCS) is a novel paradigm that leverages the collective awareness of a crowd so that a phenomenon of common interest can be monitored through the aggregation of information collected from personal mobile devices. While MCS application to Smart Cities is impeded by several challenges. These include: 1) efficient recruitment of users, which is a hard task, particularly because of the privacy restrictions that limit the exchange of information; 2) dealing with "the curse of sensing", i.e., the tendency of MCS to collect data that in certain locations may be too sparse, leading to a poorly described phenomenon; 3) effective mechanisms for rewarding users to encourage participation; and 4) testbeds and techniques for testing large-scale MCS applications in situ, which is highly relevant to the research community given the challenge of involving a high number of people in data collection.

- application of mobile crowdsensing to smart cities
- mobile and pervasive crowdsensing testbeds and experiences
- large-scale environmental monitoring
- privacy preservation
- recruitment
- mobile-edge computing

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