

Special Issue

Advanced Research in Mobile Crowd Sensing Systems

Message from the Guest Editors

With the development of Internet of Things technologies and the proliferation of mobile smart devices, mobile crowdsensing (MCS) has attracted a great deal of attention from industry and academia. MCS utilizes large number of participants to perform various sensing tasks via the built-in sensors of mobile devices. Although many researchers have paid attention to MCS, it still faces many challenges. First of all, MCS has to face a great deal of uncertainty in terms of participants, sensing tasks, and even communication scenarios. Thus, how to adjust the strategies (participant selection, task allocation, etc.) to deal with these uncertainties is one of the most pressing challenges. Secondly, MCS aims to provide fine-grained and large-scale sensing services by utilizing widespread participants and large amounts of mobile devices. However, there might still be some data that cannot be sensed. Moreover, the sensing data might also have some errors caused by devices or some extreme events. Thus, how to deal with the missing, corrupted, and abnormal sensing data is another challenge in MCS. Finally, MCS also needs to provide secure and trustworthy data sensing services.

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Deadline for manuscript submissions

closed (15 October 2022)



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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