



International Journal of Distributed Sensor Networks

Special Issue on
Mobile Sensing and Social Computing

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With the rapid development of social networks and social environments, mobile sensing has increasingly emerged as one of the most important technologies to develop social computing solutions. Social computing is a general term for an area of computer science that is concerned with the intersection of social behavior and computational systems, providing a programmable combination of contributions from both humans and computers. A key factor for social computing is how social information is collected from the ubiquitous environments and can be widely used to provide social services in mobile environments.

Mobile sensing is increasingly becoming part of everyday life, as smartphones are becoming the central personal computational device in people's lives. Mobile sensing presents several challenges related to wireless sensor networks, machine learning, human computer interaction, and mobile systems. Sensor-equipped mobile phones can be combined with wireless sensor networks installed in the environment to develop social machines in many sectors of our economy, including business, healthcare, social networks, environmental monitoring, and transportation.

Some research efforts on social computing and mobile sensing have been in progress, including mobile sensing algorithms, applications, systems, methods, and techniques to develop virtual societies. This special issue is an opportunity to bring multidisciplinary experts, academics, and practitioners together to exchange their experience in the development and deployment of mobile sensing and social computing systems. The special issue intends to bring together researchers and developers from industry and academia to report on the latest scientific and technical advances on the application of mobile sensing and social computing and to showcase the latest systems using these technologies.

Potential topics include, but are not limited to:

- ▶ Systems architecture for mobile sensing
- ▶ Mobile sensor based personal informatics
- ▶ Machine learning applied to mobile sensing
- ▶ Information fusion for mobile sensing
- ▶ Mobile sensing devices
- ▶ Mobile social computing
- ▶ Context-aware system for social computing
- ▶ Multiagent systems for social computing
- ▶ Social computing and distributed sensor networks
- ▶ Social recommenders based on mobile sensing
- ▶ Applications of mobile sensing
- ▶ Applications of social computing
- ▶ Security in mobile sensing and social computing

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