



International Journal of Distributed Sensor Networks

Special Issue on
**Participatory and Opportunistic Mobile Sensing:
Applications and Technologies**

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In recent times, significant advancements have been made in the field of mobile sensing. Smartphones are equipped with plethora of sensors and they have become the central gadget for most people, enabling various mobile sensing applications. These sensors can collect important context information regarding users, devices, networks, changes in environment, and so on. Diverse applications like social networks, healthcare, environmental monitoring, transportation safety, and social business can vastly benefit from the contributions of mobile sensing. Participatory and opportunistic sensing with mobile devices has opened up many new applications. Along with the advancements in mobile sensing, challenges are also appearing in large numbers. Energy drainage caused by continuous operation of on board sensors, environmental pollution due to excessive emission of CO₂ from devices security, privacy, trust, and so on are emerging as major challenges in achieving full performance benefits from the sensors.

Mitigation of the aforementioned challenges requires new and emerging technologies. Authors are invited to submit original research works and review articles on mobile sensing applications and related technologies. Our main interest is in quality contributions containing original thinking that are not published yet. This special issue provides an opportunity for bringing together the expertise of researchers and developers in order to showcase the latest developments in the field of mobile sensing.

Potential topics include, but are not limited to:

- ▶ Participatory and opportunistic mobile sensing: sustainable design, technologies, and applications
- ▶ Context aware mobile sensing and mobile computing
- ▶ Energy accuracy tradeoffs in mobile sensing
- ▶ Metrics, measurements, and evaluation of mobile sensing
- ▶ Collaborative sensing applications, collaborative intelligence
- ▶ Participatory sensing, crowd-sensing, and human centric sensing
- ▶ Cloud-assisted mobile sensing applications and technologies
- ▶ Distributed mobile sensing and computing
- ▶ Security, privacy, and trusts in mobile sensing
- ▶ Information fusion for mobile sensing
- ▶ e-health, e-wellness, e-childcare, and e-parking
- ▶ Behavioral and social impacts of mobile sensing
- ▶ Mobility, localization, and management aspects
- ▶ Value chain analysis and evolution aspects

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razzaque@cse.univdhaka.edu

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drsungwon@khu.ac.kr

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zubair@it.ecei.tohoku.ac.jp

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Mr. Muzman

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