

Call for Papers

Special Issue on Mobile Big Data Management and Innovative Applications

IEEE Transactions on Services Computing

With the rapid growth of smart phones and the development of wireless technology, mobile applications in the world are continuously expanded, while the proliferation of mobile devices and their enhanced onboard sensing capabilities are playing increasingly important role to drive the explosion of mobile data. Furthermore, advances in social networking and cyber-physical systems are making mobile data “big” and consequently bring challenges for management and processing. All these factors contribute to a possible new service paradigm: mobile big data driven service computing, which includes various unique aspects, e.g., mobile big data collection and sensing; novel technologies for mobile big data transmissions, such as software-defined data transmissions and processing; mobile big data mining, such as mobility and demographic tracing based data mining. Under the new service paradigm, mobile big data management techniques and innovative applications need to be extensively investigated to gain the great potentials brought by the mobile big data.

In this special issue, we are particularly interested in high quality contributions and innovations in this interdisciplinary area of mobile big data technologies, systems, and services. We are especially interested in mobile big data management and innovative applications but not limited to the topics of interest listed below:

- Representation Formats for Mobile Big Data
- Mobile Big Data Sensing and Collection
- Mobile Big Data Analytics and Metrics
- Advance Networking Technologies like SDN and NFV for Mobile Big Data
- Algorithms and Programming Techniques for Mobile Big Data Processing and Mining
- Foundational Models for Mobile Big Data
- Mobile Big Data Security, Privacy, and Systems
- Mobile Big Data Driven New Paradigm of Service Computing
- Mobile Big Data Driven Communication and Cloud Computing
- Human-centric Activity Recognition based on Mobile Big Data
- Context-aware, Emotion-aware, Location-based Mobile Big Data Services
- Mobile Data Management
- Innovative Applications of Mobile Big Data

Important Dates

- Dec. 31, 2015: deadline for manuscript submission
- Feb. 29, 2016: first round decision announcement
- Apr. 30, 2016: revised submissions due
- May 31, 2016: second round decision announcement
- June 30, 2016: final decision notification
- July 31, 2016: camera-ready version due version due

Submission Guidelines

Manuscripts that have not been published or considered for publication elsewhere are welcome. Authors will submit their manuscripts through the TSC online system (<https://mc.manuscriptcentral.com/tsc-cs>) and select “SI on Mobile Big Data”. Author guidelines will be available at the journal website (<http://www.computer.org/tsc>).

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