IEEE Internet of Things Journal Special Issue on

"Advanced Computational Technologies in Mobile Edge Computing for Internet of Things"

Mobile Edge Computing (MEC) has recently evolved as an emerging technique by moving the computing and storage resources from the cloud to the edge of the network. The MEC supports Internet of Things (IoT) devices to improve their efficiency and scalability; helps to reduce latency delay for real-time applications, bandwidth bottlenecks, and energy consumption; and delivers contextual information processing. MEC offers extensive capabilities and opportunities, such as access to a multitude of network interface (from 4G and 5G to Wi-Fi), support for mobility of devices, device context, geo-location awareness, and geographical distribution. Such attributes can support the real-time processing requirements of the internet of everything application, such as patient care, disaster management and detection (e.g., earthquakes), and flood monitoring. In order to realize the full potential of MEC in the information technology application, however, many challenges must be addressed, such as IoT Big Data issues, efficient management of data storage and computing, privacy and security concerns, innovative and emerging communication paradigm (e.g., 5G), demand new architectures, application, and methods.

This special issue aims to address key challenges, such as the development and provision of new methods, and architectures for internet of everything applications that exploit the capabilities delivered by MEC. In particular, we encourage high quality submissions related to examining the challenges and opportunities for designing and implementing an innovative MEC architecture with internet of things.

We seek original and high quality submissions related to one or more of the following topics (but not limited to):

- Computational Modelling and Theory in MEC for internet of things
- Development of an innovative MEC architecture for internet of things
- Advanced future perspective in MEC for internet of things
- Energy efficiency and resource allocation in MEC for internet of things
- Wireless networking and communication in MEC for internet of things
- Secure and privacy preserved MEC architecture for internet of things
- Interference control, mitigation, and cancellation in MEC
- Emulation and simulation of internet of things application in MEC
- Utilization-awareness network approaches for MEC
- Applications and services for MEC

Schedule

Submissions Deadline: June 15, 2018   First Reviews Due: September 1, 2018

Revision Due: October 1, 2018   Second Reviews Due/Notification: November 1, 2018

Final Manuscript Due: December 1, 2018   Publication Date: 2019

Submission

All original manuscripts or revisions to the IEEE IoT Journal must be submitted electronically through IEEE Manuscript Central, http://mc.manuscriptcentral.com/iot. Author guidelines and submission information can be found at http://ieee-iotj.org/. The IEEE IoT Journal encourages authors to suggest potential reviewers as part of the submission process, which might help to expedite the review of the manuscript. Please suggest only those without conflict of interest. Each submission must be classified by appropriate keywords.

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