

CALL FOR PAPERS

IEEE Internet of Things Journal Special Issue on
Software Defined Networking for Internet of Things

The Internet of Things (IoT), which provides an intelligent bridge between the physical world and cyber space, has been gaining interest as the technology to enable a smarter world. However, in-depth research efforts on systems, networks and architectures of IoT for efficient large-scale deployments are still required to fill the gaps between satisfying quality of service requirements and cost-effective implementations and operations. Software Defined Networking (SDN), which separates the control and data planes of networking devices, offers exceptional flexibility in programmability and enormous potentials for optimization of network resource usage. Thus SDN is an attractive technology to fill these gaps by enabling new ways of IoT communications and services through simple, but smart, open, and powerful networking devices and systems with adaptive and scalable functionalities. SDN-based IoT can provide attractive solutions to address many challenges dealing with the overwhelming service requests and data flows generated by IoT devices, such as distributed collaborative heterogeneous identification schemes, service virtualization and elasticity, automated management, maintenance and upgrades, rapid and seamless network resource optimization in response to environment changes by scaling up (or down) services, and so on. In this special issue, we are looking for cutting edge technologies, novel studies, and promising developments, which can realize and elevate the effectiveness and advantages of the emerging SDN-assisted IoT techniques, systems, and architectures.

Technical Scope of the Proposal:

All submitted papers to this SI are to focus on state-of-the-art research in various aspects of smarter IoT supported with SDN from academic and industry viewpoints. Topics of interests include, but are not limited to:

- SDN architecture integration with IoT
- Communications for SDN- IoT
- SDN-IoT for autonomous cars and driving systems
- IoT cloud platform based on SDN
- Architecture, networking protocols, QoS and cross-layer optimization design
- Security, liability and privacy
- Northbound APIs and applications for IoT services
- Southbound development over IoT devices
- Interworking of SDN with sensor networks
- Wireless enabled intelligent transportation systems
- Field trials and deployments of SDN-IoT
- Social-aware IoT services by SDN
- Traffic engineering and flow recovery in SDN-IoT

Important DatesSubmissions Deadline: **August 1, 2017**

First Reviews Due: November 1, 2017

Revision Due: December 15, 2017

Second Reviews Due/Notification: January 15, 2018

Final Manuscript Due: January 31, 2018

Publication Date: 2018

All original manuscripts or revisions to the IEEE IoT Journal must be submitted online through IEEE Manuscript Central, <http://mc.manuscriptcentral.com/iot>. Author guidelines and submission information can be found at <http://iot.ieee.org/journal>. 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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