IEEE Internet of Things Journal Special Issue on

Trust-Oriented Designs of Internet-of-Things for Smart Cities

The Internet-of-Things (IoT) offers new opportunities for cities to make citizens live and work in more sustainable, healthy and safe places. Since IoT applications in smart cities are characterized by different devices, networking standards, and data management strategies, trust becomes a fundamental issue in IoT ecosystem, e.g., ensuring trustworthiness of IoT devices, establishing dependable connections, providing trustful data processing environments, etc. As per predictions by Gartner, the number of connected IoT devices will reach 26 billion by 2020. The explosion of IoT devices, along with their decentralized deployment, constraint resources, limited computational and cryptographic capabilities, brings challenges to trust management in IoT. The coexistence of multiple IoT domains (e.g., communities and hospitals) also raise challenges, for example, how to evaluate and maintain trust across domain boundaries.

This special issue aims at bringing the researchers from both academia and industry together to disseminate their recent advances related to the challenges and solutions in building trustful IoT for smart cities.

Topics of interest include, but are not limited to:

- Trusted architectures, algorithms, and protocols for IoT
- Trust management in merging IoT applications
- Decentralized trust management and authentication of IoT devices
- Decentralized trust management in IoT networking and communication
- Trust management in IoT data processing
- Attack detection and prevention solutions to trust management in IoT
- Designs, implementation, and deployments of trust policies
- Definition and assessment of trust level for IoT
- Standardization efforts related to trust management in IoT

Important Dates

Submissions Deadline: **August 15, 2019**   Acceptance Notification: January15, 2020

First Review Due: November 1, 2019   Final Manuscript Due: February 1, 2020

Revision Due: December 15, 2019   Publication Date: 2020

Submissions

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/.

Guest Editors

Meng Shen, Beijing Institute of Technology, China (shenmeng@bit.edu.cn)

Ke Xu, Tsinghua University, China (xuke@tsinghua.edu.cn)

Xiaojiang Du, Temple University, USA (dux@temple.edu)

Martin J. Reed, University of Essex, UK (mjreed@essex.ac.uk)

Md Zakirul Alam Bhuiyan, Fordham University, USA (mbhuiyan3@fordham.edu)

Lan Zhang, University of Science and Technology of China, China (zhanglan@ustc.edu.cn)

Rashid Mijumbi, Bell Labs, Nokia, Ireland (rashid.mijumbi@nokia.com)