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IEEE Internet of Things Journal Special Issue on Trust, Security and Privacy in Crowdsourcing

The recent proliferation of mobile devices such as smartphones and wearable devices has given rise to crowdsourcing Internet of Things (IoT) applications. Various data collected by mobile devices with small or big volumes can be further processed, analyzed and mined in order to support multifarious promising services with intelligence. As we become increasingly reliant on intelligent and interconnected devices in every aspect of our lives, critical trust, security and privacy concerns are raised as well. Crowdsensing data trust, data provider privacy, identity attack detection become significant research issues for achieving high quality of service in crowdsourcing with regard to data collection, transmission, selection, process, analysis and mining, as well as utilization. Trust, security and privacy in crowdsourcing have received increasing attention in recent years. But current solutions are still imperfect, incomprehensive and inefficient, thus impractical. Emerging technologies incite novel solutions and at the same time, many challenges are yet to be overcome. This special issue aims to bring together researchers and practitioners to discuss various aspects of trust, security and privacy in crowdsourcing, explore key technologies, investigate technology enablers and innovate new solutions for overcoming major challenges in this research field.

Topics of interests include (but are not limited to) the following categories in crowdsourcing:

- Trust evaluation and management
- Verifiable computation and provenance management
- Truth discovery on huge volume of unconnected data
- Big data trust and reputation enhancement mechanisms
- Data source reliability estimation and assurance
- Quality of Information modeling and analytics
- Secure data search and collection
- Anonymous authentication
- Secure Multi-party Computation in crowdsourcing data mining
- Privacy-preserving big data processing, fusion, mining and analytics
- Crowdsensing data anonymization and fusion
- Crowdsourcing applications with privacy and security protection
- Security threat detection theories and technologies

Important Dates

Submissions Deadline: **July 1, 2017**
Revision Due: November 1, 2017
Final Manuscript Due: December 31, 2017

First Reviews Due: October 1, 2017
Second Reviews Due/Notification: December 1, 2017
Publication Date: 2018

Submission

The special issue seeks submission of papers that present novel original results and findings on trust, security and privacy in crowdsourcing. Solicited original submissions must not be currently under consideration for publication in other venues. Author guidelines and submission information can be found at <http://iot.ieee.org/journal>. All manuscripts should be submitted through Manuscript Central: <http://mc.manuscriptcentral.com/iot>.

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