



Call for Papers

IEEE GLOBECOM 2019 Workshop on Security and Privacy in Smart, Cooperative IoT and CPS Friday, December 13, Big Island, Hawaii, USA

SCOPE AND MOTIVATION:

With the rapid development of 5G communication/networking, sensing technologies, and Artificial Intelligence (AI), Internet of Things (IoT), Cyber Physical Systems (CPS), Unmanned Aerial Vehicles Networks (UAVN), smart electronic systems, smart networking and control, cloud-edge cooperative computing have been becoming increasingly prosperous, which constitute a variety of interconnected, smart, cooperative environments.

IoT, CPS and other abovementioned systems are multi-dimensional complex systems integrating computing, networking and physical environments, which can realize real-time perception, dynamic control and information services for large engineering systems, through the integration and cooperation of communication, computation and control. Therefore, security and privacy are of vital importance in such systems.

However, due to the characteristics of complex systems, vulnerable end devices, limited computation/communication/storage/energy resource, heterogeneous networking, and etc., security and privacy in IoT and CPS are extremely challenging problems. There exist a lot of security threat incidents, from system invasion, cyber attack, industrial control damage, to data privacy leakage.

This workshop collects novel solutions and offers a venue for researchers and industry partners to publish, present and discuss their latest research results in the area of security and privacy in smart, cooperative IoT and CPS.

MAIN TOPICS OF INTEREST:

- Security and privacy in IoT and CPS with AI
- Security and privacy in cloud/fog/edge computing
- Threat models and attack strategies for IoT
- Security applications and management of IoT
- Security of Cyber physical IoT systems
- Security in Wireless Sensor Networks
- Privacy and trust in IoT and CPS
- Security and privacy in cooperative machine learning
- Security architectures and protection mechanisms for IoT
- Intrusion and malware detection/prevention technologies for IoT
- Lightweight cryptographic algorithms and protocols
- Data privacy in IoT and CPS
- Authentication in IoT and CPS
- Security and privacy in industrial IoT
- Security and privacy in home IoT
- Security and privacy in UAV networking
- Security and privacy in connected vehicles
- Models for risk identification and assessment in IoT networks
- Cross-layer/cross-domain/cross-service security in IoT and CPS
- Security and privacy related policies in IoT and CPS

IMPORTANT DATES:

Paper submission deadline: July 5, 2019

Paper decision date: August 15, 2019

Camera-ready due: September 15, 2019

WORKSHOP CHAIRS:

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Xiaoyan Zhu, Xidian University, China

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WEBPAGE: <https://globecom2019.ieee-globecom.org/authors/call-workshop-papers>

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