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Call for Papers
Workshop on Secure and Trustable Wirelessly Connected Industrial IoT

Organized and co-chaired by

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✣ FOCUS

The digital transformation is going to change our society in almost every aspect. The marriage of cyber-physical systems via wireless connectivity with powerful cloud applications will bring along the industrial internet of things (IIoT), pushing digitalization not only into our home and our cities but also to our industry. Establishing trust and dependability is especially challenging in wireless communication networks in industrial settings. In this workshop we therefore will highlight recent advances in secure and trustable wirelessly connected IIoT.

This workshop is organized by the European research project SCOTT (Secure COnnected Trustable Things), which started 2017 with a clear vision: "Building Trust in the Internet of Things" (https://scottproject.eu/). In this workshop, the SCOTT consortium explicitly invites contributions from outside SCOTT to complement the research within the project with a strong “outside-in view” to stimulate discussions and further research and raise awareness about the importance of the topic. Therefore we call for contributions from both, industry and academia, in the field of dependable, secure and energy efficient local wireless communication. With respect to applications, we target industrial domains like automotive, aeronautics, building, health, robotics, smart manufacturing, etc. While our focus is on creating trust in wireless communication, we invite also OSI layer 2 and above research aiming at security, safety and dependability applicable to wired and wireless communication.

✣ TOPICS

The Workshop will be focusing on (but not limited to) the following topics:

- Advanced wireless sensor networks (WSN) and IIoT concepts for industrial use cases in domains like automotive, aeronautics, building, health, robotics, smart manufacturing, with the focus on one or more of the following attributes: security, safety, reliability, trustability.
- Theoretical aspects of security, privacy, safety and trust for IIoT.
- Innovative energy-constrained and autonomous IIoT components.
- Dependable WSN with enhanced energy efficiency, robustness and quality-of-service.
- Physical layer and out-of-band security in WSN applications.
- Routing and scheduling algorithms for reliable real-time WSNs.
- Secure identification, authentication, authorization and communication in WSN.
- Trust anchors and trust indicators for secure IIoT systems.
- Edge and Cloud computing services for safe and secure connected mobility applications.

This workshop will be organized on September 10, 2019 and will start with an invited keynote talk, followed by presentations of the accepted papers. All accepted papers will be eligible for inclusion in the IEEE Xplore Digital Library, once they meet the requirements of an IEEE quality review.

✣ AUTHOR’S SCHEDULE (2019)

Submission deadline ..... May 13
Acceptance notification ..... June 10
Deadline for final manuscripts ..... June 17