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The Security and Privacy of Sensor and Actuator Networks

Guest Editor:

Dr. Jerome Le Ny

Department of Electrical
Engineering, Polytechnique
Montreal, Montreal, QC H3T-1J4,
Canada

Deadline for manuscript
submissions:

closed (10 December 2021)

Message from the Guest Editor

This Special Issue aims to present rigorous methodologies for the design of secure and private sensor/actuator networks and cyber-physical systems (CPSs) in general. We welcome the submission of both theoretical contributions presenting novel ideas to enforce various formal notions of security and privacy, as well as the description of practical but rigorous solutions to protect CPS against real-world attacks.

- Models of attacks on cyber-physical systems
- Notions of privacy applicable to sensor/actuator networks
- Attack detection, identification, and isolation in distributed cyber-physical systems
- Designing sensor/actuator networks that are resilient against attacks
- Privacy-preserving mechanisms for an intelligent infrastructure
- Distributed control systems that operate under security and privacy constraints
- Differential privacy in cyber-physical systems
- Secure signal processing, communications, control and distributed computations using cryptographic techniques
- Tradeoffs between security, privacy, and performance
- Incentives to strengthen security and privacy in sensor/actuator networks



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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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