Special Issue

Data Security Approaches for Autonomous Systems, IoT, and Smart Sensing Systems

Message from the Guest Editors

Intelligent sensors, ubiquitous computing, and IoT systems are increasingly becoming an integral part of today's infrastructure. The convergence of smart sensing and intelligent IoT systems in supporting embedded computing solutions introduces a new era for system autonomation. However, with the increasing reliance on system automation for improving the quality of life, these systems contribute to a new type of vulnerability. Many of these systems were mainly designed to support reliable and robust sensing and control capabilities without the consideration of data security and system resilience against cyber threats. Autonomous systems have been exposed to a large number of security threats including sensor data modification attacks, replay attacks, denial of service (DOS) attacks, attacks on the error control algorithm, and sensor data injection attacks. Autonomous systems lack the support of reliable and efficient data encryption/decryption. Sensor data transmitted over the system are not encrypted and authenticated in such a system. For more details, please visit here.

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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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