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Security and Privacy for IoT Applications in Smart Environments

Guest Editors:

Dr. Isam Wadhaj
School of Computing, Engineering & the Built Environment, Edinburgh Napier University, Edinburgh EH10 5DT, UK

Dr. Baraq Ghaleb
School of Computing, Engineering & the Built Environment, Edinburgh Napier University, Edinburgh EH10 5DT, UK

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Message from the Guest Editors

Dear Colleagues,

The emergence of the Internet of Things (IoT) is driven by the desire to effortlessly collect and transmit data, enabling seamless and remote information exchange. This concept refers to a network of interconnected objects and devices equipped with embedded sensors capable of collecting and transmitting data. IoT applications and devices have become integral parts of our daily lives.

The extensive and diverse nature of the data collected by IoT devices raises fundamental security questions about data collection, processing, and storage. IoT devices are susceptible to various security risks, including distributed denial of service (DDoS) attacks, botnets, and malware, which assume control of compromised IoT devices for malicious purposes. DDoS attacks against IoT devices can affect not only the target but other devices and services in the same network. There is an urgent need to develop and adopt security standards to ensure the secure design, connectivity, and accessibility of IoT devices.

The SI topics covered, but are not limited to, the following:

- Security and privacy in IoT applications
- Privacy-enhancing technologies for IoT systems

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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

Tel: +41 61 683 77 34
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