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Lightweight Security Integrity and Confidentiality for Internet of Things (IoT)

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Deadline for manuscript submissions:
closed (19 August 2022)

Message from the Guest Editors

Dear Colleagues,

Internet of Things (IoT) devices show a very wide range of resource constraints, such as processing capacity and memory. The energy availability also shows a wide spectrum from intermittent/harvested energy source powered devices to those continuously connected to a power source device. This makes it challenging to provide security properties such as integrity, confidentiality, and availability. This Special Issue welcomes papers on all aspects of ensuring security properties in IoT ecosystems. The topics include but are not limited to the following:

- Cyber intrusion and detection in IoT;
- Data provenance in IoT;
- Security, trust, and privacy in IoT and IoT-based smart ecosystems;
- Lightweight data and execution state integrity and confidentiality in IoT;
- Lightweight cryptographic and post-quantum cryptographic solutions in IoT;
- Hardware security primitives in IoT (e.g., physically unclonable functions and true random number generators);
- Side-channel attacks and protection in IoT;
- Intermittent/harvested-energy-based cryptographic and security solutions in IoT;
- Solving energy and cybersecurity constraints in IoT.

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Message from the Editor-in-Chief

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