Intrusion Detection Systems for IoT

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Message from the Guest Editors

IoT is prevalent in our daily lives. There are currently two connected IoT devices per capita worldwide, and by 2025, this number will be doubled. However, the limited computation and storage power of IoT devices and their specific communication protocols largely render conventional security solutions inappropriate. Intrusion Detection Systems (IDSs) can play a crucial role in safeguarding IoT systems against cyberattacks by creating a second wall of defense, complementing conventional preventive security measures.

In this context, this Special Issue seeks the submission of original and unpublished contributions on IDS for IoT. The topics of interest include, but are not limited to:

- Intrusion detection and prevention systems for IoT;
- Machine learning for intrusion detection in IoT;
- Deep learning for intrusion detection in IoT;
- Datasets for IoT intrusion detection systems;
- IDS architectures for IoT;
- Network-based IDS for IoT;
- Host-based IDS for IoT;
- Federated learning for IoT intrusion detection;
- Collaborative IDS for IoT;
- Cloud-based IDS for IoT;
- Hybrid IDS architecture for IoT;
- IDS for smart health monitoring;
- IDS for intelligent transportation systems.

Special Issue

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Message from the Editor-in-Chief

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