



future internet



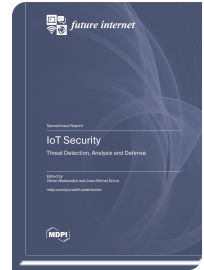
Special Issue Reprint

IoT Security

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Internet of Things technologies, which connect various devices and sensors together, are increasingly at the basis of modern communication, enabling the autonomous exchange of data between billions of physical and virtual objects, creating smart environments in sectors such as healthcare, logistics, etc.

However, the advancement of IoT communication also brings new security challenges. Managing the security of the IoT raises major concerns, especially when devices are deeply integrated into critical infrastructure, hospitals, and vehicles. Furthermore, the IoT is a key component of 5G/6G architecture and Industry 4.0. All these technologies are designed to support critical applications.

The increased number of related potential attack vectors poses a substantial risk for malicious attackers. Also, the focus of security has been put on large-scale, software-oriented systems, such as the Cloud or datacenter systems, rather than embedded electronics. Consequently, the establishment of IoT ecosystems across different domains remains highly vulnerable to a wide range of threats.

This Special Issue gathers high-quality original research contributions and the latest research results in the field of threat detection within the IoT. It also covers threat analysis and corresponding defense techniques. The threats are related to privacy issues, trust issues, IoT management issues, IoT intrusion, vulnerability issues, malware detection, cryptographic key management, reliability of IoT communication (including secure routing aspects), IoT security techniques, Cloud-related IoT issues, etc.



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