

Special Issue

Emerging Challenges and Innovations in IoT Security and Privacy

Message from the Guest Editors

With the rapid growth of Internet of Things (IoT) devices, including wearable and smart home devices, industrial IoT systems, and autonomous vehicles, security and privacy protection have become issues that can no longer be overlooked. While these technologies bring great convenience to everyday life, they also introduce new vulnerabilities and risks. The threat landscape has expanded from traditional network attacks and hardware exploits to emerging side-channel and privacy breaches enabled by wireless sensing and electromagnetic radiation analysis. Moreover, the increasing ubiquity and miniaturization of IoT devices have created novel forms of privacy invasion, accompanied by complex social and economic influences. This Special Issue calls for original research articles and comprehensive surveys that explore and address the emerging security and privacy challenges of current IoT devices, systems, and ecosystems, and their broader societal and economic effects. For this Special Issue, we aim to provide new perspectives and valuable knowledge to advance the ongoing discourse on IoT security and privacy.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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