

Special Issue

Information Security and Privacy in Intelligent Internet of Things

Message from the Guest Editors

The Intelligent Internet of Things (I-IoT) is a convergence of edge computing, artificial intelligence, and smart ubiquitous systems. The I-IoT enables autonomous, data-driven decision-making in areas such as smart cities, industry, healthcare, and transportation. But as the I-IoT extends to billions of nodes, it poses unprecedented threats. The conventional security model fails in securing these cyber-physicals against adaptive zero-day attacks, side-channel attacks, or AI-driven inference attacks. We invite contributions addressing foundational challenges and emergent threats. Topics include resource-efficient cryptographic primitives for limited resource-constrained devices, security systems that mitigate model inversion attacks, model-poisoning attacks, trust mechanisms on a blockchain foundation for device trust, and differential privacy mechanisms for high-rate streams, as well as a host of other topics. Submissions must demonstrate rigorous security systems, combining verification and adversarial modelling. In any case, resilience assessment, using prototypes, testbeds, or simulation, is a prerequisite.

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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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