Special Issue

Emerging Physical Layer Security Techniques to Address Challenges in IoT Communications

Message from the Guest Editors

The Internet of Things (IoT) is rapidly expanding, connecting billions of devices and generating unprecedented amounts of data. However, this interconnectedness also introduces significant security vulnerabilities, particularly at the physical layer, where traditional cryptographic methods may be insufficient due to the resource-constrained nature of many IoT devices. This Special Issue explores emerging physical layer security (PLS) techniques designed to address these challenges and enhance the security of IoT communications. This Special Issue brings together cutting-edge research on various PLS techniques for IoT, including channel-based key generation, artificial noise and beamforming, cooperative jamming, and physical layer authentication. Moreover, it to provide a comprehensive overview of the latest advancements in PLS for IoT, highlighting their potential to address the unique security challenges posed by the ever-expanding IoT landscape. By fostering collaboration and knowledge sharing among researchers and practitioners, we hope to accelerate the development and deployment of secure and reliable IoT systems.

Guest Editors

Dr. Liang Wang

Dr. Qu Luo

Dr. Qihao Peng

Dr. Zhuangkun Wei

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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