



Security of Sensor Network Systems and Circuits from a Hardware Perspective

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Message from the Guest Editors

Recent advances in Internet of Things (IoT) have launched a new generation of edge applications. These emerging near-sensor and in-sensor computing paradigms mandate efficient hardware implementation for intelligence integration, amalgamating smart sensing and data analytics at the circuit and network level. As sensor data are subject to more attack vectors and pose security and privacy threats to the connected systems and their users. Lightweight hardware roots of trust, embedded cryptography, efficient secure processors or co-processors and hardware-assisted authentication are promising directions in this light. Distributed intelligent sensor systems, especially artificially intelligent circuits and systems for networked computer vision applications, have also become attractive targets for physical attacks. Securing sensor systems from a hardware perspective is therefore essential to establish reliable and trustworthy ubiquitous sensor networks (USN).

This Special Issue therefore aims to put together original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of sensor network systems and circuits.





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Message from the Editor-in-Chief

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