Special Issue

Advances in Hardware Security Research

Message from the Guest Editors

Integrated circuits (IC) have become ubiquitous in our everyday life ranging from smartphones to militarygrade applications. The security of applications on these devices are critically dependent on the underlying IC or system-on-chip (SoC) that ensures the privacy. authenticity, and integrity of the entire solution stack. However, with the growth of third-party intellectual property (3-PIP) combined with the globalization of the IC supply chain, ease of access to critical assets has created soft targets for cybercriminals to perform malicious activities on the device. Consequently, this has led to calls for a re-evaluation of the trustworthiness of the underlying ICs. This Special Issue offers new insights in evaluating the state-of-the-art hardware security attacks and defenses that will provide a foundation for future endeavors. The topics of interest include, but are not limited to:

- IP piracy/counterfeiting/overbuilding: Attacks and defenses;
- Hardware Trojans: Attacks and defenses;
- Hardware security: Primitives, architecture, and design and test:
- Side-channel analysis.

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Message from the Editor-in-Chief

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.

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