



Hardware Support for the Security of Computing Devices

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Message from the Guest Editors

Ever-increasing on-chip transistor budgets give opportunities to explore hardware-supported security systems. First of all, hardware-based security mechanisms are generally more efficient than software-based ones in terms of performance and energy. Further, hardware is one system component that is typically immutable and hard to manipulate. Furthermore, hardware provides an unmatched visibility to program execution in a transparent manner, paving the way for developing novel security mechanisms.

In this Special Issue, we invite original articles that deal with security issues on computing devices by taking all these advantages of hardware support for security.

- Secure processor architectures and implementations
- Hardware-based security monitoring systems
- Side-channel attacks, evaluations, and defenses
- Hardware-based trusted execution environments and security solutions
- Hardware support for secure cloud/IoT
- Cryptographic hardware design and implementation
- Simulation, testing, and verification for hardware-based security systems





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Message from the Editor-in-Chief

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