Special Issue

Operating Systems and Hardware Security

Message from the Guest Editors

We invite you to submit the results of your research to the Special Issue on "Operating Systems and Hardware Security", with a focus on embedded systems' security. The aim of this Special Issue is to present novel approaches, novel attacks or state-of-the-art surveys related to analyzing or otherwise ensuring security through a holistic hardware and software approach. The papers should emphasize the role of the operating system, the instruction set architecture and its underlying implementation. Research areas covered by the Special Issue may include (but are not restricted to) the following:

- Trusted execution environments;
- Root of trust;
- Hardware-enforced isolation;
- Software integrity protection;
- Remote attestation;
- Capabilities;
- Secure enclaves;
- Side-channel attacks;
- Covert-channel attacks;
- Fault injection attacks;
- Secure boot;
- Secure storage;
- Secure firmware development;
- Hardware security primitives: PUFs and TRNGs;
- Instruction set extensions/accelerators for cryptography.

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Deadline for manuscript submissions

closed (31 May 2023)

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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