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Operating Systems and Hardware Security

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Deadline for manuscript submissions:
closed (31 May 2023)

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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Message from the Editor-in-Chief

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