

Special Issue

Security, Cryptography and Privacy-Preserving Computation Architectures for Wireless Sensors Networks and Communications

Message from the Guest Editor

Data communication over public channels and data analysis at the untrusted servers have increased the risk of leaking sensitive information. Advanced security and cryptography technologies provide strong solutions to protect the security of sensitive data. Cryptographic protocols ensure the data integrity at storage while private information could be protected when inferring cloud-side services by using homomorphic encryption (HE) technique. Therefore, the effectiveness in hardware accelerator designs of cryptography primitives are greatly desirable for security in wireless sensor networks and communications. The main purpose of this special issues will focus on efficient security and cryptography architectures design that realizes data security applications for wireless sensor networks and communication systems. The topics of interest include, but are not limited to the following

- Design and analysis of cryptographic primitives and protocols
- Hardware security primitives
- Hardware attack and defence
- Architecture security and System security
- HE hardware architectures
- Hardware architecture for privacy-preserving applications
- HE-based machine learning applications

Guest Editor

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