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

Guest Editor:

Prof. Dr. Hanho Lee

Department of Information and Communication Engineering, Inha University, Incheon 22212, Republic of Korea

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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 homorphic 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 priomitives 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

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Special Issue

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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