

Special Issue

Emerging Trends in Network Security and Applied Cryptography

Message from the Guest Editors

With the development of information technologies, such as Internet, big data, cloud computing, and artificial intelligence, the network has penetrated into all aspects of daily life, such as social interaction, online shopping, mobile payment, online medical services, smart home, and AI services. It is undeniable that the network has indeed brought us a lot of convenience, but there are also various network information security risks, such as data leakage, identity theft, network vulnerabilities, and denial of service. As the key core technology to ensure network information security, applied cryptography plays a vital role in data protection, identity verification, message authentication, and access control, etc. Therefore, through in-depth analysis of the existing network information security risks, enhancing the protection ability of applied cryptography in network information security is a crucial topic. This Special Issue aims to cover recent advancements in the network security and privacy risk analysis, network security and privacy defense, and applied cryptography and provable security.

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