

Special Issue

Data Privacy, Security, and Trust in Blockchain and IoT Based Networks

Message from the Guest Editors

Blockchain has far-reaching possibilities of applications beyond finance in areas such as healthcare, voting systems, IoT integration-related applications, smart home and civil document management, to name just a few. The current technological scenario involves cloud computing, the Internet of Things, big data and cryptographic tools. In several applications such as finance, data privacy plays an important role, and therefore several cryptographic techniques such as Zero-Knowledge can play an important role to provide privacy. The other issue is the security of the data from the Internet of Things devices and stored on the cloud or public networks or transferred through insecure channels. Internet of Things devices has very limited power and storage capacity, and therefore several standard cryptographic algorithms do not fit with these resource-constrained devices. The special issue solicits innovative and novel cryptographic techniques or security analyses of those cryptographic techniques suitable for IoT devices or blockchain networks and provide privacy, security, and trust to the data.

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