Special Issue

Blockchain and Cloud Computing for Internet of Things

Message from the Guest Editors

IoT is generally characterized by real world and constrained devices with limited capacity and, therefore, consequential issues such as less reliability, security, and privacy. Cloud computing on the other hand deals mainly with the virtual world and has unlimited capabilities in terms of storage and processing power. Thus, the cloud and IoT are the main complementary aspects of the future Internet. IoT can benefit from the unlimited capabilities and resources of cloud computing. Cloud can benefit from IoT by extending its scope to deal with real world things in a more distributed and dynamic manner. A blockchain is a distributed database that is shared among the nodes of a computer network. Blockchain allow the IoT devices to exchange collected data with each other or send them to a cloud server securely and reliably. The decentralized autonomy, tamper resistance, and security of blockchain technology propose a new solution to minimize the potential weaknesses and risks of IoT. The aim of this Special Issue is to provide a forum for the scientists to present their latest research results and perspectives for future work in the blockchain, IoT and cloud computing field.

Guest Editors

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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