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PROPOSAL TITLE

BLOCKCHAIN AND EDGE COMPUTING TECHNIQUES FOR EMERGING IOT APPLICATIONS

Scope of the Thematic Issue

In the last few years, we witness the growth of various Internet of Things (IoT) System to provide solutions for complex applications. It produces a huge volume of data from heterogeneous IoT devices. Due to these properties of IoT, we find it difficult on process, store or transmit these massive data. The cloud and fog computing technology somehow manages this huge volume of data and processing of those data using different analytical or AI tools. The centralised architecture of cloud or fog computing is in jeopardy of privacy leakage, single point failure and various cyber-attacks. With the characteristics of immutable and secure data with decentralised and distributed computing nodes, blockchain technology can provide countermeasures to the limitations of IoT. In the fusion of Blockchain with IoT many challenges and issues exist, such as low power computing devices, scalability, robustness and reliability. But with the combination of cloud/fog concept with IoT, the integration with blockchain could be possible. In this special issue, our objective is to collect the state-of-the-art and breakthrough architecture with diverse application areas of IoT by integrating blockchain with cloud/fog computing technology.

Topics include, but are not limited to the following

- New concepts and architectures for intelligent Blockchain for IoT
- Scalable Blockchain for IoT
- Cloud/edge/fog computing orchestration in Blockchain for IoT
- Operation and maintenance of Blockchain systems for IoT
- Communications, computing and storage issues in Blockchain empowered IoT
- Intelligent detection of malicious smart contracts for IoT
- Big data analytics to identify malicious behaviours on Blockchain for IoT
- Security and privacy issues with Blockchain for IoT
- Blockchain driven IoT applications

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Important Dates

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