Special Issue

Cloud/Edge/Fog Computing and Blockchain Technologies for Artificial Intelligence of Things

Message from the Guest Editor

IoT and artificial intelligence (AI) should work together harmoniously. The IoT can create the volume of data required to feed ML models. Edge, fog, and cloud are the three layers that make up an IoT architecture. The Artificial Intelligence of Things (AIoT) may benefit from the use of blockchain in IoT. Blockchain data are securely kept and untouchable because of the great integrity and resilience of the system. When used with ML models, the smart contract concept can provide more security and dependability than the inference stage. Some topics of interest include, but are not limited to:

- IoT applications taking advantage of edge/fog/cloud distributed computing;
- Distributed architectures in support of IoT applications;
- Trust data collection and computing for distributed IoT using AIoT;
- Machine learning and data science in/for edge–fog–cloud IoT;
- Edge/fog-computing-based algorithms/method design for edge–blockchain systems;
- The role of blockchain in the convergence of AI, IoT, and edge–cloud;
- Implementation/testbed/deployment of edge/fog/cloud computing, AIoT and blockchain.

Guest Editor

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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