Big Data-Driven Responsible Edge Intelligence: Privacy, Security, Robustness, and Potential

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Message from the Guest Editors

Dear Colleagues,

With the continuing increasing volume of data, the field of big data has been confirmed as one of the most advanced areas of research, attracting growing attention from both academia and industry. To enable trust within this trustless scenario, blockchains have been found to be one of the most powerful tools. So, big data-driven decentralized edge intelligence is a necessity to improve existing architectures.

This poses further privacy challenges for data collection, transmission and processing. We welcome the submission of relevant topics including, but not limited to:

- Responsible edge intelligent frameworks with big data processing abilities;
- Privacy protection of big data at the edge of network;
- Trade-off between privacy and data utility when a blockchain is deployed as the underlying architecture;
- Privacy-preserving edge intelligence;
- Privacy-preserving swarm intelligence models built upon big data;
- Security issues for big data-driven decentralized edge intelligence;
- Performance improvement of edge intelligence leveraging big data;
- Other potential of responsible edge intelligence.

Special Issue

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Message from the Editor-in-Chief

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