IEEE IoT Journal Special Issue on

Cloud/Fog/Edge-enabled Big Data Intelligence for IoE

Internet of Everything (IoE) is playing key roles to enable smart manufacturing, smart healthcare, and so on. A tremendous amount of data are accumulated continuously. Big data processing and analysis play increasingly important roles in making the world simpler, better, and smarter. In particular, intelligence extracted from data processing and analysis provides unprecedented opportunities for new waves of emerging applications. Meanwhile, it is well-known that big data processing and analysis require substantial computing and storage resources, which can be offered through cloud computing much easier than traditional IT. On the other hand, there are many requirements on handling onsite data analysis for efficient response in e.g. unmanned vehicles, smart control of manufacturing and transportation, which can be enabled by fog/edge computing. As a result, we see huge potentials for cloud/fog/edge-based big data intelligence. Though some progress has been made in this area, there is still a need to explore the cloud/fog/edge-based big data intelligence. This special issue aims to cover various aspects related to big data processing and analysis in conjunction with cloud/Fog/Edge computing for IoE, including the following topics, but are not limited to:Cloud/Fog/Edge- based analysis models and algorithms for big data from IoE

- Cloud/Fog/Edge-based big data mining platforms and tools for IoE
- Machine learning for Cloud/Fog/Edge-based big data analysis for IoE
- Intelligent big IoE data solutions based on Cloud/Fog/Edge- computing
- Cloud/Fog/Edge- based big social data mining and computing
- Urban big data computing assisted by Cloud/Fog/Edge computing
- Security and privacy of big data using Cloud/Fog/Edge computing in IoE
- Weaving ubiquitous IoT into Cloud/Fog/Edge for big data intelligence
- New applications for big data intelligence leveraging Cloud/Fog/Edge computing

Important Dates

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Guest Editors

Weishan Zhang (zhangws@upc.edu.cn), China University of Petroleum (East China), China

Paolo Bellavista (paolo.bellavista@unibo.it), University of Bologna, Italy

Jiehan Zhou (jiehan.zhou@oulu.fi), University of Oulu, Finland

Chunsheng Zhu (chunsheng.tom.zhu@gmail.com), Southern University of Science&Technology, China

Liming Chen (liming.chen@dmu.ac.uk), De Montfort University, UK

Mahmoud Daneshmand (mdaneshm@stevens.edu), Stevens Institute of Technology, US

Submission Information

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