Special Issue on "Challenges and Applications of Internet of Things, Bid Data and Cloud"

Journal of Cluster Computing, Springer

The emerging sensor technologies, commonly known as Internet of Things (IoT), transformed the entire concept of networking, which used to be only tied up to major industries and network service providers. These technologies made it possible to create networks at much smaller and cheaper scale.   IoT is now extensively being used for gathering data, aggregation and data mining. Their wide spread use in personal networks through critical infrastructures such as power station, transport systems, hospital and manufacturing industries has opened numerous avenues for research. IoT is generally characterized by real world and small Things, limited capacity, constrained devices and the consequential issues such as less reliability, security and privacy. Cloud computing on the other hand deals mainly with virtual world and has unlimited capabilities in terms of storage and processing power. Thus cloud and IoT are the main complementary aspects of the future Internet. Security, privacy, reliability, energy efficiency, virtualization, etc are the focus of current research and a number of exciting results have been reported in the recent international conferences.

This special issue is organised for the selected papers accepted for the IEEE 5th International Conference on Future Internet of Things and Cloud (FiCloud-2017), 3rd International Conference on Big Data Innovations and Applications (Innovate-Data 2017) and the 14th International Conference on Mobile Web and Intelligent Information Systems (MobiWiS 2017), which were held during 21-23 August 2017, in Prague, Czech Republic. The special issue solicits high quality research papers related emerging issues and challenges in the IoT, Cloud and Big Data.

The objective of this special issue is to showcase the most recent developments and research in these areas. Original research articles are solicited which include (but not limited to), the following topics:

- Security, Privacy and Trust
- Software Architecture and Middleware
- Performance Evaluation and Modelling of IoT and Cloud
- Cloud Computing Platforms and Virtualisation
- Big Data Innovations and Applications
- Big Data Analytics
- Data Mining
- Energy efficiency in IoT and Cloud
- Mobile applications for IoT and Cloud
- Web, Cloud and Distributed Systems

Submission Procedure:

Papers submitted to this special issue must be original and must not be under consideration for publication in any other journal, conference, or workshop.

The main target audience will be the papers accepted for the IEEE 5th International Conference on Future Internet of Things and Cloud (FiCloud-2017), 3rd International Conference on Big Data Innovations and Applications (Innovate-Data 2017) and the 14th International Conference on Mobile Web and Intelligent Information Systems (MobiWiS 2017).

Extended versions of the papers (accepted for the FiCloud 2017, Innovate-Data 2017 and MobiWIS 2017) must contain significant amount of new material such as new experiments, results, and related work (e.g., recently published work in Cluster Computing journal or other related publications).

All papers submitted to the special issue will be reviewed by independent reviewers. The journal editors will make final decisions on the acceptance of the papers.

Authors should prepare their manuscript according to the Guide for Authors available from the online submission page of the *Cluster Computing* at
https://link.springer.com/journal/10586

Important dates:

- Submission deadline: 15 November 2017
- Review notification: 15 January 2018
- Submission of revised papers: 15 February 2018:
- Final decision: 15 March 2018

Steps for submission of papers:

1) Login to the manuscript submission system:
https://www.editorialmanager.com/clus/default.aspx

2) Choose Article Type: (Select the following special issue)
"Challenges and Applications of Internet of Things, Big Data and Cloud"

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