



International Journal of Data Science and Analytics

<http://www.springer.com/41060>

Call for papers

Special Issue on **Bid Data, IoT Streams and Heterogeneous Source Mining**

Guest Editors

- Wei Fan (Baidu Research Big Data Lab, USA, fanwei03@baidu.com)
- Albert Bifet (Telecom-ParisTech, France, albert.bifet@telecom-paristech.fr)
- Jesse Read (Ecole Polytechnique, France, jesse.read@polytechnique.edu)
- Qiang Yang (Hong Kong University of Science and Technology, Hong Kong, qyang@cse.ust.hk)
- Philip Yu (University of Illinois at Chicago, USA, psyu@cs.uic.edu)

Relevant Activities

We, the guest editors are organizing the BigMine-17 workshop (<https://bigmine.github.io/bigmine17/>) in conjunction with the 2017 SIGKDD Intl. Conf. on Knowledge Discovery and DataMining (KDD 2017), as we have done for several years (since BigMine-12). In the past there have been many paper submissions of high quality. Thus, a Special Issue in the *International Journal on Data Science and Analytics* would authors a way to further develop their work into journal-standard publications. Papers provisionally accepted in the first round would be invited to present at the workshop, but the Special Issue would provide a good target also for many high-quality pieces of research in development in this area.

Motivation and Background

The Big Data and IoT challenges have been recognized as the most exciting and key opportunities for both academic and industry. On system level, we have Hadoop/MapReduce, streaming systems, Spark that are becoming popular. On application site, social media is getting more and more important in our daily life. It is important to understand the limitations of current solutions, applications, what else can be done, and what can be done better, and what new business can be born as a result.

Topics and Scope

The scope of the special issue is serious research relevant to Big Data and The Internet of things (IoT), including the main challenges in (1) system, (2) algorithm, and (3) business models. Topics of interest include

- Scalable, Distributed and Parallel Algorithms
- New Programming Model for Large Data beyondHadoop/MapReduce, STORM, streaming languages
- Mining Algorithms of Data in non-traditional formats (unstructured, semi-structured)
- Applications: social media, Internet of Things (IoT), SmartGrid, Smart Transportation Systems
- Streaming Data Processing
- Heterogeneous Sources and Format Mining
- Systems Issues related to large datasets: clouds, streaming system, architecture, and issues beyond cloud and streams
- Interfaces to database systems and analytics
- Evaluation Technologies
- Visualization for Big Data
- Applications: Large scale recommendation systems, social media systems, social network systems, scientific data mining, environmental, urban and other large data mining applications

Papers emphasizing theoretical foundations, algorithms, systems, applications, language issues, data storage and access, architecture are particularly encouraged.

Important Dates

The deadline for initial submission will coincide with our BigMine-17 workshop deadline, such that submissions of sufficient quality (to merit provisional acceptance) will be invited to present at the workshop. We will then allow authors of these provisionally accepted papers approx. 8 weeks for their initial submissions to be adequately developed, according to the initial reviews. Further rigorous reviews will follow to determine the final acceptance or rejection of the paper. Hence, a rough outline is as follows:

Submission deadline:	26th May, 2017
First round review notification:	23rd June, 2017
Second round submission due:	11th August, 2017
Second round acceptance notification:	15th September, 2017
Final submission due:	29th September, 2017
Special issue to be published online:	October/November 2017

Submission Guidelines

Please submit your paper via Springer's Editorial System at <https://www.editorialmanager.com/jdsa/>.

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

All manuscripts must be prepared according to the journal publication guidelines which can also be found on the website (<http://www.springer.com/41060>).

During submission please select "S.I.: Big Data, IoT Streams and Heterogeneous Source Mining" under Manuscript Category.

For any inquiry please contact **Albert Bifet** (albert.bifet@telecom-paristech.fr) or **Jesse Read** (jesse.read@polytechnique.edu)