Call for Papers
Special Issue on Big Data Analytics and the Web
IEEE Transactions on Big Data

Last few years have seen the rapid increase of sheer amount of data produced and communicated over the Web. Such Big Data are generated from all kinds of sources and applications such as social network services, cloud services, knowledge bases, and intelligent terminals, and often in a wide variety of formats such as unstructured, semi-structured, and structured. A particular recent trend around the Web is to connect and communicate between billions of physical objects (also called “Things”), i.e., Web of Things (WoT). WoT offers the capability of integrating both physical and virtual worlds and massive volumes of real-time data are expected to be produced by these connected things and their associated sensors.

While it is widely believed that Big Data holds the potential to revolutionize many aspects of our modern society (e.g., smart cities), many technical challenges need to be addressed before this potential can be realized. Indeed, Big Data requires a revisit of data analysis systems in fundamental ways at all stages from data acquisition and storage to data transformation and interpretation. Services should be ideally provisioned in a way that speeds up data processing, scales up with data volume, improves the adaptability and extensibility over data diversity and uncertainties, and finally turns low-level data into actionable knowledge towards better understanding and manipulation of Big Data. This special issue aims at presenting the latest developments, trends, and research solutions of Big Data analytics on the Web. Topics of interests include, but are not limited to:

- Knowledge acquisition from Big Data on the Web
- Reasoning over uncertain Web data
- Efficient models and solutions for querying and processing Big Data on the Web
- Algorithms and systems for Web-scale mining
- Web-based crowdsourcing and data analytics
- Big Data and Web of Things
- Clustering, classification, and summarization of Web data
- Web-based social sensing and data analytics
- Analytic Web services for Big Data
- Open Linked Data and the Semantic Web
- Web data integration
- Machine learning on deep Web data
- Data stream mining and spatio-temporal data analytics on Web of Things
- Business analytics & Big Data practice on the Web

Submission Instructions
Before submitting your manuscript, please ensure you have carefully read the Instructions for Authors for IEEE Transactions on Big Data (TBD). The complete manuscript should be submitted through TBD’s submission system. To ensure that you submit to the correct special issue, please select the appropriate section in the drop-down menu upon submission. In your cover letter, please also clearly mention the title of the SI.

Important Dates
- 30/06/2015 Paper submission due
- 30/09/2015 1st round review due
- 31/10/2015 1st revision due
- 30/11/2015 2nd round review due
- 15/12/2015 2nd revision due
- 31/12/2015 Final due

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