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**SPECIAL ISSUE ON**  
**Deep learning for big data analytics**

**Overview:**

With the fast-growing data deluge across all complex real-world applications such as social networks, biological networks, Internet of Things (IoT), and so on, the current big data has exhibited unstructured, heterogeneous, multi-source, sheer volume and complex natures. These emerging characteristics pose great challenges on the existing data processing techniques. Deep learning is currently an extremely promising technology on data analysis in a number of key application areas, such as speech recognition, computer vision, and natural language processing. It is coming to play an important role in coping with the challenges of big data and providing effective big data analytics solutions.

This special issue is devoted to the most recent developments and research outcomes addressing the related theoretical and practical aspects of advanced deep learning techniques for big data analytics and aims at presenting latest innovative ideas targeted at the corresponding key challenges, either from a methodological or from an application perspective.

**Topics**

Topics of interest include, but are not limited to, the following scope:

- Deep learning for big data representation	- Deep learning for big data understanding
- Deep learning for heterogeneous big data	- Deep learning for multi-source big data
- Deep learning for unstructured big data	- Data driven feature learning
- Time series data analysis via deep learning	- Deep reinforcement learning
- State-of-the-art of deep learning in different types of big data analysis	- Big data organization, retrieval, and indexing via deep learning
- Multi-task learning and multi-scale analysis via deep learning	- Multimodal information fusion via deep learning
- Applications of deep learning in different types of big data analysis	

**Important Dates**

- **Manuscript submission deadline: July 1<sup>st</sup>, 2018**
- Notification of acceptance: September 1<sup>st</sup>, 2018
- Submission of final revised paper: October 1<sup>st</sup>, 2018
- Publication of special issue (tentative): End of 2018

**Submission Procedure**

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>.

A copy of the manuscript should also be emailed to the Guest Editors at the following email address: [y.l.wu@exeter.ac.uk](mailto:y.l.wu@exeter.ac.uk).

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