

Special issue on Semantics, Knowledge and Advanced Computing on Big Data

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Big Data challenge not only computing infrastructure but also the fundamental computing model and research paradigm. Semantics, Knowledge and advanced computing infrastructure (including Cloud, Internet of Things, Cyber-Physical Society) represent three communities of practice that will significantly influence big data research. This special issue is to report the latest advance in these areas, promote cross-area research and accelerate the development of these areas and big data research.

Topics of interest include (but are not limited to):

- (1) Semantics modeling and Semantic Link Networks on Big Data, including construction, discovering, analysis and management.
 - (2) Summarization and integration of various data, including texts, pictures and videos.
 - (3) Knowledge discovery in big data and the methods for transforming big data into knowledge.
 - (4) Knowledge modeling and management, especially on advanced computing infrastructures.
 - (5) Advanced data models, software tools and methodologies, and computing platforms for big data management.
 - (6) Applications on semantics, knowledge and advanced computing infrastructure, including smart cities, healthcare, environment, economics and enterprise information systems.
- This issue is open for submissions, including extended high-quality papers presented at SKG 2016 (12th International Conference on Semantics, Knowledge and Grids and its workshops, August 15-17, 2016, Beijing, China, <http://www.knowledgegrid.net/skg2016/>).
 - Submitted papers should have at least 40% extension from the original conference papers.
 - Papers should be submitted via [Manuscript Central](#) as "SKG-2016 Special Issue".
 - Paper submission due: September 25, 2016
 - Completion of first review: October 25, 2016
 - Revision due: November 25, 2016
 - Notification of acceptance: December 25, 2016