

Call for Papers

Journal of Internet Technology

(<http://jit.niu.edu.tw/>, Indexed by SCI-E)



Special Session on “Knowledge Management and Big Data Analytics”

Theme and Scope

With data driven scientific discovery approach as the fourth paradigm for computing, big data has become the core that drives new researches in many areas, from environmental to social. There are many new scientific challenges when facing this big data phenomenon, ranging from capture, curation, storage, search, sharing, analysis, and visualization. The complication here is not just the storage, I/O, query, and performance, but also the integration across heterogeneous, interdependent complex data resources for real-time decision making, collaboration, and ultimately value co-creation. Due to the consideration of real-time performance, return on investment, complexity /practicability, and data-human interface, one important approach for predictive big data analytics is to focus on the creation and maintenance of dynamic, domain specific knowledge that serves as the bridge between the high speed incoming raw data and the “last mile” self service analytics. This will significantly reduce the amount of data to be managed and processed. Its presentation view will likely be more user-centric; time taken for decision making can also be fast enough to meet most of the real-time analytics requirements. Both temporal and spatial properties of this dynamic knowledge pose many new challenges to its life cycle maintenance. This special session will include papers based on the presentation at the First International Workshop on Knowledge Management and Big Data Analytics (<http://wp.csiro.au/kmba2013/>), as part of the IEEE International Conference on Big Data 2013, (<http://www.ischool.drexel.edu/bigdata/bigdata2013/>) and papers submitted for this call for papers. All submitted papers are subjected to the same review process as those papers accepted for publication in the regular issues.

Topics include but are not limited to:

- Data and Knowledge Modeling
- Knowledge Mapping from Big Data Sources
- Knowledge Creation through Crowdsourcing
- Knowledge-inspired Big Data Indexing and Query Processing
- Dynamic Knowledge Integration and Visualization
- Data and Knowledge Interoperability and Exchange
- Data and Knowledge Provenance
- Knowledge-inspired Data Mining and Machine Learning
- Knowledge Discovery, Search, and Recommendation
- Knowledge Analytics Framework and Architecture
- Privacy Preserving Big Data Collection / Analytics
- Knowledge Quality Estimation and Uncertainty Handling
- Use Cases and Applications in Knowledge and Big Data analytics

Instructions for Manuscripts

Each paper, written in English, should be no more than 5000 Words, including references and illustrations. More information can be found at <http://jit.niu.edu.tw/preparation2.php>. All submitted papers will be reviewed by at least three reviewers and selected based on their originality, significance, relevance, and clarity of presentation. Papers extended from conference/workshop versions should be clearly stated and should have at least 30% different materials from their original versions. The covering letter should indicate the names of the authors and their affiliations, addresses, faxes, and e-mails. Prospective authors should submit full manuscripts electronically by e-mail to chihung.chi@csiro.au, by January 15, 2014.

Important dates

Manuscript submission deadline:	January 15, 2014
Notification of Acceptance/Rejection/Revision:	May 15, 2014
2 nd round check:	July 15, 2014
Final Manuscript Due:	September 15, 2014
Tentative Publication Date:	November 30, 2014

Guest Editors

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