



BigDMS 2015

Special Session on Big Data Mining and Searching

At the 7th International Conference on Computational Collective Intelligence Technologies and Applications (ICCCI 2015)

Madrid, Spain, September 21-23, 2015

Conference website: <http://antares.sip.ucm.es/iccci2015/>

Special Session Organizers

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Objectives and topics

The exceptional growth of data sizes available on the Web, especially with the wide use of social networks has changed data processing. Then, traditional technologies are unable to handle this massive data. They presented often multidimensional constraints; Data come from different sources with diverse formats, should be treated in real time, and may be subject to different interpretations depending on the status of the end user. This is what has led to the emergence of Big Data.

The main challenge of Big Data management lies in both an increasing volume of streaming data having petabytes size, heterogeneous, structured (from data warehouse and graph database) or unstructured (from Web 2 contents, text documents and social networks). It is in the context of unstructured data that fits the Big Text Mining proposing new approaches and techniques to transform this massive data into useful data.

Big Data Mining is part of the effort to improve the process of seeking new knowledge from large volumes of data. It has become ubiquitous in understanding and solving complex problems in different fields such as engineering, healthcare, social networks, commerce, government, education, medicine, security, computational biology, all search-based applications...

The objective of this session is to give an overview of the main lines of this interesting area with its various opportunities and challenges.

The scope of the **BigDMS2015** includes, but is not limited to the following topics:

- Foundations and computation (Models and Frameworks for Big Data, Graph Algorithms and Big Data, Computational Intelligence)
- Algorithms for Big data (Simulation and Modeling, Natural Language Processing, Multidimensional Big Data ...)
- Infrastructure and platforms
- Cloud Computing/ Stream Computing for Big Data
- Big Data Management
- Big Text Mining and Information Extraction
- Big Data Analytics and Information Retrieval
- Application of Big data
- Big data Visualization
- Data Science

- Recommendation System with Big data
- Machine learning for Big data
- Open data and unstructured data
- Data preservation and provenance
- Search and Mining
- Computational Modeling and Data Integration
- Link and Graph Mining
- Mobility
- Multimedia and Multi-structured Data
- Big Data and Social Media
- Big Data Privacy and Security
- Big Data Analytics in e-Government and Society
- Big Data Applications

Important dates

Submission of papers: **April 12, 2015 (extended)**
 Notification of acceptance: **15 May 2015**
 Camera-ready papers: **15 June 2015**
 Conference date: **21-23 September 2015**

Program Committee

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Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper, please activate the following link and select the track: **BigDMS2015: Special Session on Big Data Mining and Searching.**

<https://www.easychair.org/conferences/?conf=iccci2015>

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at Springer's web site. Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the **BigDMS2015** Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).