2nd IEEE/ACM International Workshop on Distributed Big Data Management

(DBDM 2017)

in conjunction with

17th IEEE/ACM International Conference on Cluster, Cloud and Grid Computing (IEEE/ACM CCGRID 2017)

May 14, 2017, Madrid, Spain

[Aim and Scope | Workshop Location | Submission Guidelines and Instructions | Paper Publication | Important Dates | Program Committee]

Best Papers of DBDM 2017 will be Invited for Extended Submission to a Top-Quality Journal

Aim and Scope

Big Data Management is of relevant interest at now, and it can be considered as one of the most emerging research topics we deal with. In particular, the management of Big Data in distributed settings (like Clouds) is demanding for innovative models,

techniques and algorithms capable of dealing with the well-known Vs of such kind of data.
Indeed, traditional approaches are not suitable to manage Big Data in distributed environments, due to the Volume, Velocity and Variety of Big Data. Starting from this evidence, recently we experienced novel proposals that are trying to creating applications and systems that, running on top of distributed settings like Clouds, effectively and efficiently manage Big Data as to support a wide range of contexts, among which analytics, knowledge discovery and cybersecurity methods are just some relevant examples.
Despite these initiatives, lot of work still needs to be done in such research area, as it encompasses a large collection of topics ranging from data management algorithms to high-performance techniques. Topics are both of theoretical nature (e.g., managing uncertain and imprecise distributed Big Data) and practical nature (e.g., Big Data dissemination in distributed environments).
The aim of the 2nd International Workshop on Distributed Big Data Management (DBDM 2017), which follows the successful event 1st International Workshop on Distributed Big Data Management (DBDM 2016), is to capture the new research trends and results in terms of models, techniques, algorithms, architecture and applications for the management of Big Data in distributed environments. This workshop will also identify potential research directions and technologies that will drive innovations within this domain. We anticipate this workshop to establish a pathway for the development of future-generation large-scale Big Data management systems.
The DBDM 2017 workshop focuses on all the research aspects of distributed management of Big Data. Among these, an unrestricted list is the following one:

- Distributed Big Data: Fundamentals
- Distributed Big Data: Modelling
- Distributed Big Data: Statistical Approaches
- Distributed Big Data: Novel Paradigms
- Distributed Big Data: Innovative Protocols
- Distributed Big Data: Algorithms
- Distributed Big Data: Query Optimization
- Distributed Big Data: Non-Conventional Environments (e.g., Spatio-Temporal Data, Streaming Data, Cloud Data, Probabilistic Data, Uncertain Data)
- Distributed Big Data: Systems
- Distributed Big Data: Architectures
- Distributed Big Data: Advanced Topics (e.g., NoSQL Databases)
- Distributed Big Data: Case Studies and Applications
- Innovative Models for Big Data Management in Distributed Settings
- Innovative Techniques for Big Data Management in Distributed Settings
- Innovative Algorithms for Big Data Management in Distributed Settings
- Innovative Architectures for Big Data Management in Distributed Settings
- Query Processing Approach for Big Data in Distributed Settings
- Approximate Query Processing of Big Data in Distributed Settings
- Uncertain and Imprecise Big Data Management in Distributed Settings
- Privacy Preserving Big Data Management in Distributed Settings
- Secure Big Data Management in Distributed Settings
- Scalable Big Data Analytics in Distributed Settings
- Data Warehousing over Big Data in Distributed Settings
- OLAP over Big Data in Distributed Settings
- Big Graph Data Management in Distributed Settings
- Big RDF Data Management in Distributed Settings
- Streaming Big Data Management in Distributed Settings
- Virtual Big Data Management in Distributed Settings
- Indexing Approaches for Big Data in Distributed Settings
- Theoretical Models for Big Data Representation in Distributed Settings

- Big Data Exchange Models and Algorithms in Distributed Settings
- Big Data Fusion Models and Algorithms in Distributed Settings
- Big Data Integration Models and Algorithms in Distributed Settings
- Big Data Availability Models and Algorithms in Distributed Settings
- Big Data Reliability Models and Algorithms in Distributed Settings

The 2nd International Workshop on Distributed Big Data Management (DBDM 2017) will be held in conjunction with the 17th IEEE/ACM International Conference on Cluster, Cloud and Grid Computing (IEEE/ACM CCGRID 2017), in Madrid, Spain, during May 14, 2017, and it focuses on these aspects, by posing the emphasis on a theoretical as well as a practical point of view, and provides a forum for researchers and practitioners interested in distributed big data management to meet and exchange preliminary ideas and mature results.

Top

Workshop Location

Melia Los Galgos Hotel, Madrid, Spain.

Top

Submission Guidelines and Instructions

Contributions are invited from prospective authors with interests in the indicated session topics and related areas of application. All contributions should be high quality, original and not published elsewhere or submitted for publication during the review period.

Submitted papers should strictly follow the IEEE official template. Maximum paper length allowed is:

- Full Papers: 8 pages;
- Short Papers: 4 pages.

Submitted papers will be thoroughly reviewed by members of the Workshop Program Committee for quality, correctness, originality and relevance. All accepted papers must be presented by one of the authors, who must register.

Papers must be submitted via the EasyChair online submission system: https://www.easychair.org/conferences/?conf=dbdm2017.

Top

Paper Publication

Accepted papers will appear in the proper CCGRID 2017 proceedings, published by IEEE.

Authors of selected papers from the workshop will be invited to submit an extended version of their paper to a special issue of a high-quality international journal. Papers from DBDM 2016 are being invited for a special issue of Big Data Research, Elsevier.

Top

Important Dates

Paper submission: December 15, 2016
Notification of acceptance: January 15, 2017

Camera-ready paper due: February 15, 2017
Workshop: May 14, 2017

Top

Program Committee Chairs

Alfredo Cuzzocrea, University of Trieste & ICAR-CNR, Italy

Program Committee

Leonardo Andrade Ribeiro, Instituto de Informática - UFG, Brasil
Ladjel Bellatreche, University of Poitiers, France
Richard Chbeir, Pau University, France
Alfredo Cuzzocrea, University of Trieste, Italy
Roberto De Virgilio, University "Roma Tre" of Rome, Italy
Carlos Garcia-Alvarado, Pivotal, USA
Osvaldo Gervasi, University of Perugia, Italy
Giancarlo Fortino, University of Calabria, Italy
S.D. Madhu Kumar, NIT Calicut, India
Carson Leung, University of Manitoba, Canada
Antonio Liotta, TU Eindhoven, The Netherlands
Carlo Mastroianni, ICAR-CNR, Italy
João Moreira, University of Porto, Portugal
Lorenzo Mossucca, ISMB, Italy
Rim Moussa, University of Cartagena, Tunis
Thanos Vasilakos, Lulea University of Technology, Sweden
Guandong Xu, University of Technology Sydney, Australia
Yang Xiang, Deakin University, Australia

Top

For more information and any inquire, please contact Alfredo Cuzzocrea