Call for Contributions to Special Workshop

Big Data Management Challenges and Solutions in the Context of European Projects

Tuesday, March 21, 2017

Objectives

The main objective of this workshop is to share experiences and best practices, discuss challenges and effective solutions adopted, and investigate opportunities for collaboration among **European projects** (various directorates of the European Commission or other European funding agencies) dealing with **big data management**. The projects may have ICT as their main focus but may equally well have some other scientific field, industrial application, or societal challenge as their main focus, in the context of which big data issues come up.

This unique EDBT/ICDT workshop is a follow-up of a special track of the same flavor that was organized for the first time in EDBT/ICDT 2014 in Athens, Greece. It aims to bring together data management and database researchers and experts, as well as related user groups, designers, developers, and data practitioners. Given the fact that key players are present among the participants in the combined EDBT/ICDT joint conference, both in terms of projects and individual participants, this workshop will act as a broad forum for the exchange of the latest research results in big data management exploring new concepts, techniques, and tools. These will showcase how the major big data challenges are being confronted, be they the classical high data volume, great variety, high data velocity, lack of veracity (accuracy or reliability), and difficulty in extracting value from data, or new specialized issues that possibly arise in specific environments and contexts.

More specifically, within the context of European projects, the workshop has the following concrete sub-objectives:

- Identify major challenges in big data management
- Exchange experiences and best practices in big data management
- Consider the ethical aspects and societal impact of big data technology
- Discuss the importance of world-wide initiatives such as the Research Data Alliance (RDA)
- Clarify the relevance of new roles/job descriptions emerging, such as data scientist
- Initiate a dialogue among seemingly heterogeneous European projects that face similar data management challenges
- Connect the data management research community with the European funding scene
- Bring together active data management researchers, data scientists, and data practitioners from both the private and public sector

Concept

The plan is for interested projects that respond to this call to present their overall goals and their big data management challenges and solutions in 20-minute presentations, organized in sessions that cluster similar projects together. Every session will conclude with an open discussion on the preceding presentations. A panel will follow these sessions, where the following will be discussed: potential concrete actions of collaboration and interactions among all projects; possible future joint activities; and responsible research and innovation practices, as it pertains to data collection and analysis methodologies.

Important Dates

- Paper submission deadline: November 14, 2016
- Paper notification: December 20, 2016
- Camera-ready: January 15, 2017
- Workshops: March 21, 2017

Submission Instructions

Interested projects should submit a short description (at most 1 page) explaining the main goals of the project, the big data challenges faced, and the expected benefits from their participation in this special workshop. Pointers to other projects that appear relevant to the one proposed would be very helpful in starting to identify an ecosystem of projects to be networked. The individual giving the project presentation should be identified as well.

The short description should be submitted by email to the Chair of the special workshop at the following address: < *yannis at di dot uoa dot gr* >.

Organization

Chair: Yannis Ioannidis

University of Athens & "Athena" Research Centre (GR)