"Benchmarking for Big Linked Data: the case of the HOBBIT Project"

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Περίληψη – Abstract

A key step towards abolishing the barriers to the adoption and deployment of Big Data is to provide both companies and academics with open benchmarking reports that allow them to assess the fitness of existing solutions for their purposes. However, achieving this goal demands: (a) the deployment of benchmarks on data that reflects reality within realistic settings, (b) the provision of corresponding key performance indicators (KPIs) and (c) the computation of comparable results on standardized hardware.

In this talk we are going to discuss the work done in the context of the H2020 project HOBBIT (Holistic Benchmarking for Big Linked Data) - https://project-hobbit.eu/ - whose goals are the definition of industry-related benchmarks for tools that make use of Big Linked Data, the creation of a platform that runs on standardized hardware that can be used to have comparable results for algorithms and tools for the different steps of the Linked Data lifecycle. We are going to focus on the link discovery benchmarks developed in the context of the project that use real world spatial data (i.e., GPS traces) provided by company TomTom.

Irini Fundulaki is Principal Researcher of the Information Systems Laboratory of the Institute of Computer Science, FORTH. She has a Bachelor and Master’s Degree from the Department of Computer Science, University of Crete, and a PhD Degree in Computer Science from the Conservatoire National des Arts et Metiers in Paris, France in January 2003. During her PhD, she was a member of the Verso Database Group of the Insitut National de Recherche en Informatique et en Automatique (INRIA). After her PhD, she held a PostDoc position and then became a Member of Technical Staff at the Network Data and Services Research Department in Bell Laboratories of Lucent Technologies. She subsequently moved to the Database Group of the School of Informatics of the University of Edinburgh where she held a Research Fellow Position.

Her research interests are in the area of Web Data Management and more specifically, on Provenance Models for RDF Data, Storage and Indexing Schemes for RDF Provenance, Scalable RDF Query Processing, Access Control for RDF and XML Data and development of Benchmarks for Linked Data tools. She has published a number of scientific articles that have been widely cited and she has served on the Program Committee of numerous international conferences, journals and workshops.

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