

## WORKSHOP ON “GLOBAL SCIENTIFIC DATA INFRASTRUCTURES: THE FINDABILITY CHALLENGE”

Taormina - Sicily, Italy, 10 – 11 May 2012

### Theme

The science world contains an unimaginable vast amount of digital data which is getting ever vaster ever more rapidly. In a networked science world one big challenge faced by researchers is findability. By findability we mean ease in locating/discovering data/information/knowledge and data tools/services for specific researcher needs while taking into account relevant aspects of data attributes, tool/service functionality and deployability, context, provenance, researcher profiles and goals, etc.

Currently, there is a conceptual shift from search to findability as the Internet search paradigm is characterized by a lack of context, where the search is conducted in an independent way from professional profiles, context, provenance, and work goals.

In the context of a digital science ecosystem discovering data/information/knowledge, tools and services is better served by findability.

A findability capability should be of paramount importance for the next generation of global research data infrastructures. Such a capability must be supported by semantic data models, semantically rich metadata models, ontology/logic based languages for specifying data tool/service functionality, personalization and contextualization support, data mining algorithms, ontology/taxonomy management, mapping/matching techniques, etc.

The Workshop will address some of the most important topics enabling findability.

### List of Invited Speakers

1)	Paolo Atzeni (Univ. of Rome – Tor Vergata)	Confirmed
2)	Soren Auer (Univ. of Leipzig)	Confirmed
3)	Ricardo Baeza-Yates (Yahoo! Research, Barcelona)	Confirmed
4)	Peter Buneman (Univ. of Edinburgh)	Confirmed
5)	Stefano Ceri (Politecnico Milan)	Confirmed
6)	Yannis Ioannidis (Univ. of Athens)	Confirmed
7)	Martin Kersten (CWI)	Confirmed
8)	Georgia Koutrika (IBM Almaden)	Confirmed
9)	Maurizio Lenzerini (Univ. of Rome – La Sapienza)	Confirmed
10)	John Mylopoulos (Univ. of Toronto/Trento)	Confirmed
11)	Dino Pedreschi (Univ. o Pisa)	Confirmed
12)	Nicolas Spyratos (Univ. of Paris Sud)	Confirmed
13)	Timos Sellis (NTUA)	Confirmed

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|-----|------------------------|------------------------------|
| 14) | Gerhard Weikum (MPI)   | (Conditionally<br>Confirmed) |
| 15) | Mike Stonebraker (MIT) | TBC                          |

## **Organization**

The Workshop is organized by the “Istituto di Scienza e Tecnologie dell’Informazione of the “Italian National Research Council” (ISTI – CNR)

### **Organizing Committee**

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## **Participation**

Participation in the Workshop is free, but it is limited to highly motivated researchers. The selection of the participants will be based on their scientific interest. Candidate participants must submit a letter motivating their interest in attending the Workshop together with the application form before March 31<sup>st</sup>, 2012.

<http://datachallenges.isti.cnr.it/2012/>

Acceptance of the application will be notified to the applicants by April, 15th, 2012.