WDAqua CONSORTIUM

antidot
data valorization
search engine

DATA
PUBLICA
big public/private
sector data

3
12
HELLENIC REPUBLIC
National and Kapodistrian
University of Athens

4
5
7
UNIVERSITÉ
JEAN MONNET
SAINT-ÉTIENNE

10
13
14
UNIVERSITY OF
Southampton

1
2
6
universitätbonn

8
9
Fraunhofer
IAIS

11
15
ODI
open
data
institute

ATC
ATHENS TECHNOLOGY CENTER
social networks

mercateo
e-commerce

Wolters Kluwer
Deutschland
legal publications

\# PhD student   ◯ Academic/Research partner   ◯ Industrial partner

🎓 awards PhD degree   🎓 awards PhD degree to institute

HOW TO INTERACT

Hold lectures and tutorials during our learning weeks

Host secondments for our PhD students

Develop and plug your components into our
core question answering architecture

WDAQUA Contact

wdaqua.eu

◯ WDAqua

🐦 @WDAqua

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WDAQUA

Answering Questions using Web Data
a Marie Skłodowska-Curie Innovative
Training Network (ITN)

wdaqua.eu

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European
Commission

OVERVIEW

Sharing, connecting, analysing, and understanding data on the Web can provide better services to citizens, communities, and the industry. One way to achieve this is through data-driven question answering, by delivering precise and comprehensive answers to natural language questions, primarily by making better use of the knowledge encoded in the Web of Data. The aim of the WDAqua project is to advance the state of the art in this field by interleaving training, research, and innovation.

- It provides a training programme for young data scientists

- It addresses challenges related to the whole question answering pipeline:

Understand a spoken question
Analyse question
Find data to answer the question
Present the answer
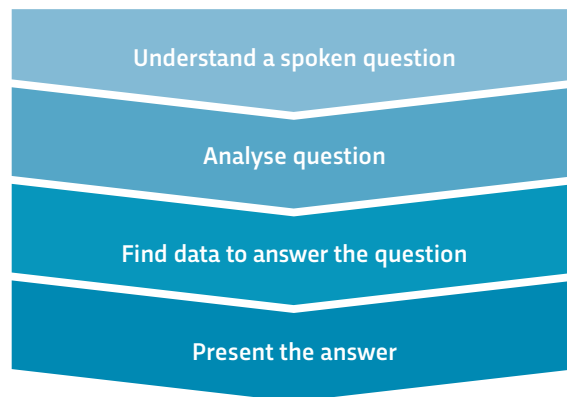
- It develops an open source framework and eco-system for question answering components

CHALLENGES

Answer questions expressed in different formats

Exploit knowledge encoded in the Web of Data to enhance question answering

Scale question answering to the size and dynamicity of the Web

Provide comprehensible answers for questions and justifications for these answers

Consider trust and provenance, as well as data access control during question answering

Discover high-quality datasets suitable for question answering, including cross-lingual, cross-border, and cross-domain settings

Enable users to easily ask questions and find answers

TOPICS

AI and NLP approaches for QA

> Spoken question recognition and interpretation

> AI techniques for NLP

> Knowledge-driven techniques for NLP

Human-data interaction

> Interactive interlingual QA

> UIs for QA systems

Dataset discovery

> Collaborative knowledge bases

> Trust and provenance of Linked Data

> Quality driven dataset discovery and retrieval

Core QA Architecture

Data management

> Integration and cleaning of Linked Data for QA

> Query processing techniques for the Web of Data

> Benchmarking data management techniques

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