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literatury

### **Research in Context**

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2013

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# Research in Context

In the light of recent results from OpenAIREplus and from the  
Library perspective





# OpenAIRE

## In a Nutshell

- European Scholarly Communication Data Infrastructure
  - FP7-OpenAIREplus (11/2011-05/2014) building on DRIVER and OpenAIRE
  - Implementing FP7 OA pilot; expanding to further funders
  - Support discovery of
    - funded research output
    - content from the network of Open Access repositories throughout Europe
- Human network support desk and technical infrastructure
- Working with three scientific partners
  - DANS for Social Sciences & Humanities
  - EMBL-EBI for Life Sciences
  - BADC for Earth Observational Data





# Aims

## And some numbers

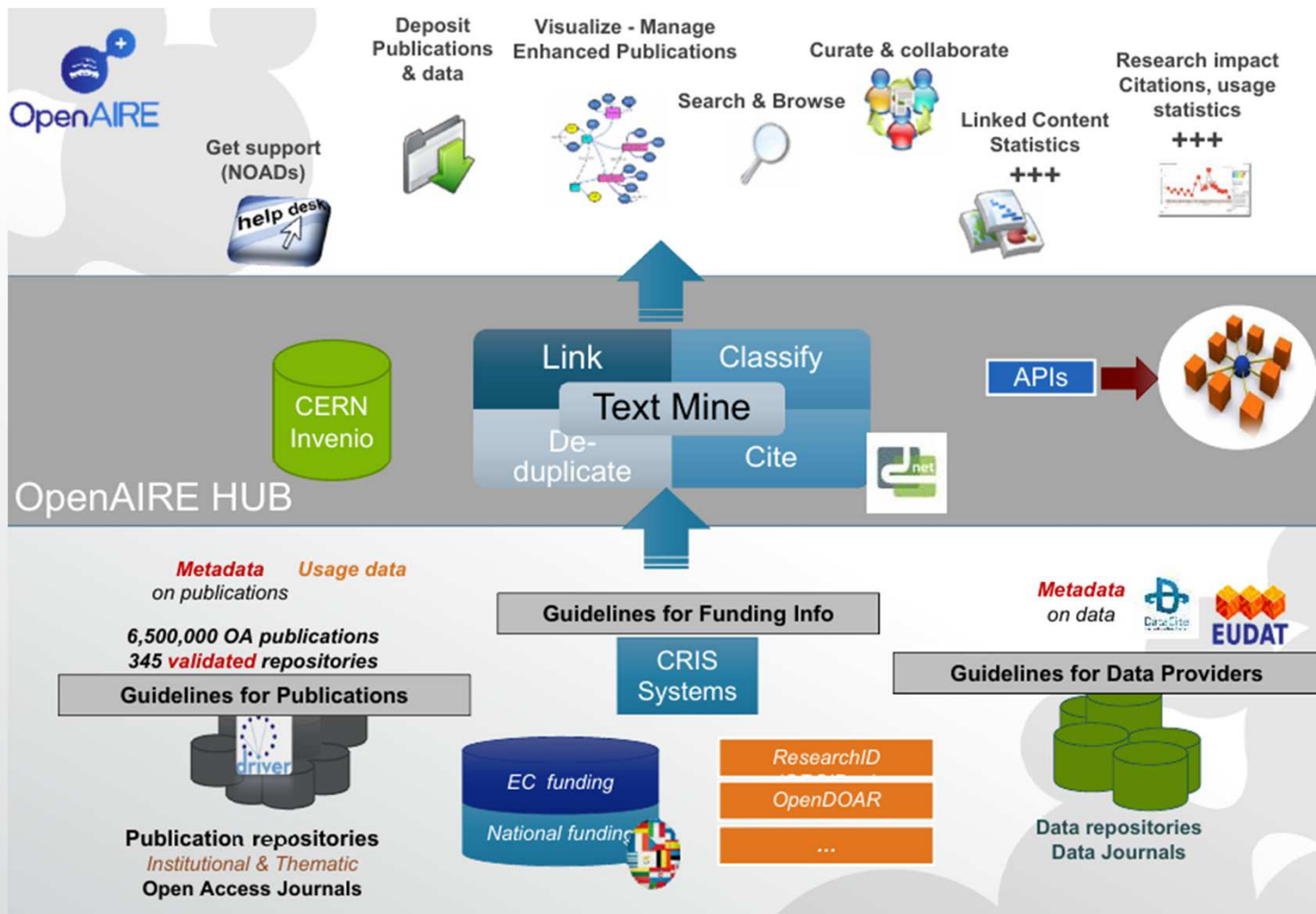
- Promoting Open Access to publications and data of European Research (and beyond)
  - ~6 mio publications (de-duplicated); ~60,000 linked to EC funding
  - ~26,000 projects from EU-FP7 & Wellcome Trust
  - Research data gets started to collect from Zenodo, DataCite, ...
- Measuring Impact for funders and research



## initiatives

Seminar to Access of Grey Literature 2013, National Technical Library , Prague

# Interoperable Infrastructure



Seminar to Access of Grey Literature 2013, National Technical Library , Prague



# Collecting Data from External Sources

Authority Information from entity registries

## Authoritative Information

- Project & Organization information
  - From EC CORDA
  - From Wellcome Trust
- Repository information
  - From OpenDOAR about institutional & thematic repositories
  - From re3data about research data repositories & archives





# External Sources - Scientific Content

Scientific content from literature and data repositories. CRIS - data sources need to be Guidelines compatible with OpenAIRE

- Bibliographic metadata about publications (OAI-Profile DC)
  - From the network of institutional and thematic repositories; aggregators
- Bibliographic metadata about research datasets (OAI-DataCite)
  - From Zenodo (being OpenAIRE's repository for "long-tail" data)
  - From DataCite metadata store; more to come





# Inferring Content

Inference Framework complementing OpenAIRE's Information Space

- Given metadata and fulltext files as input
- Applying classification and text-mining algorithms
- To find relationships
  - Of publications to funded projects
  - Of publications with research datasets (!need of persistent identification)
  - Of publications with citations (list of bibliographic references)
  - Of publications with similar publications
- To find properties
  - Like title, author(s), affiliated organization(s)





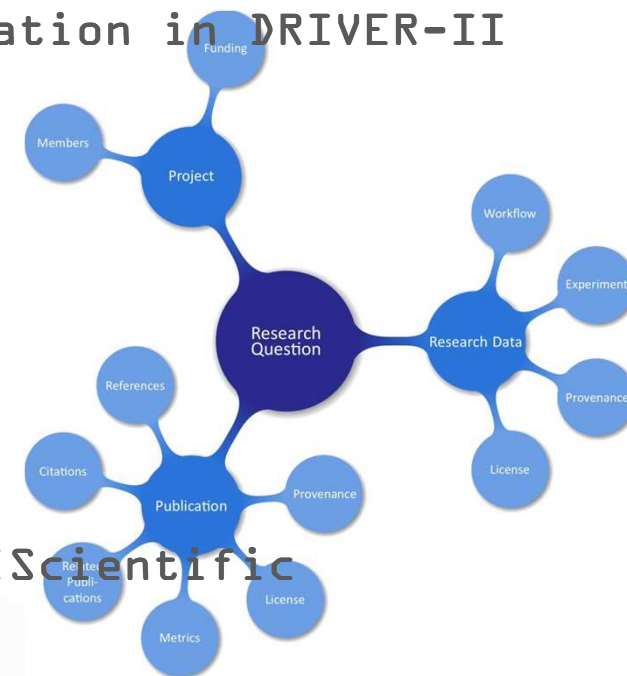
# Publications to Research in Context

Extend the Definition of Enhanced Publication in DRIVER-II

- Publication that is enriched with
  - Research data
  - Extra materials
  - Post-publication data (e.g. comments)

By Provision of Context

- Links to funding information
- Classification of the Scientific Area (Scientific Context)
- Impact Measurements





# What can Research Libraries do ?

Excursus on the approach at Bielefeld University

- Institutional repository / academic bibliography for publication management
- Part of campus networked research infrastructure
- Link to external bibliographic resources (e.g. WOS, EuropePMC)
  - For import (e.g. Open Access copies) and information enrichment (e.g. research data references)
- Link to research data services at the campus
- Consider future requirements on research data management of "long-tail" data



# What can Research Libraries do ?

## Linking with CITEC's Cognitive Interactive Toolkit



**PUB** University | International | Information for University from A-Z

Back to previous page

### A Detailed Analysis of a New 3D Spatial Feature Vector for Indoor Scene Classification

Swadzba A, Wachsmuth S (In Press)  
Robotics and Autonomous Systems .

Download [ras-spme-11-rvs.pdf](#)

DOI [10.1016/j.robot.2012.10.006](https://doi.org/10.1016/j.robot.2012.10.006)

URL <http://dx.doi.org/10.1016/j.robot.2012.10.006>

URN <urn:nbn:de:0070-pub-25635768>

Journal Article | In Press | Quality Controlled | English Mark

Details File Details **Cognitive Interaction Toolkit** Letter of Confirmation

Data provided by the Cognitive Interaction Toolkit.

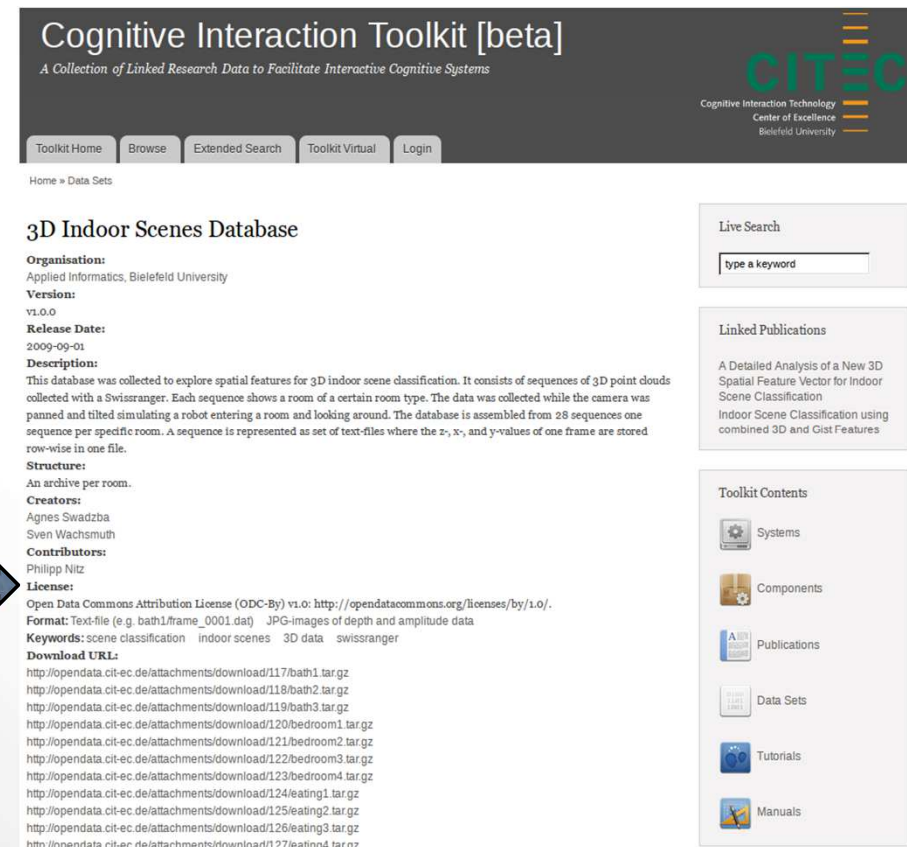
Components <http://toolkit.cit-ec.uni-bielefeld.de/components/generic/3d-scene-analysis>

Datasets <http://toolkit.cit-ec.uni-bielefeld.de/datasets/3d-indoor-scenes-database>

Cite this

AMA APA **Frontiers** Harvard IEEE LNCS MLA BibTeX RIS

Swadzba A, Wachsmuth S. A Detailed Analysis of a New 3D Spatial Feature Vector for Indoor Scene Classification. *Robotics and Autonomous Systems*. In Press.



## Cognitive Interaction Toolkit [beta]

A Collection of Linked Research Data to Facilitate Interactive Cognitive Systems

Toolkit Home Browse Extended Search Toolkit Virtual Login

Home » Data Sets

### 3D Indoor Scenes Database

**Organisation:** Applied Informatics, Bielefeld University

**Version:** v1.0.0

**Release Date:** 2009-09-01

**Description:** This database was collected to explore spatial features for 3D indoor scene classification. It consists of sequences of 3D point clouds collected with a Swissranger. Each sequence shows a room of a certain room type. The data was collected while the camera was panned and tilted simulating a robot entering a room and looking around. The database is assembled from 28 sequences one sequence per specific room. A sequence is represented as set of text-files where the z-, x-, and y-values of one frame are stored row-wise in one file.

**Structure:** An archive per room.

**Creators:** Agnes Swadzba, Sven Wachsmuth

**Contributors:** Philipp Nitz

**License:** Open Data Commons Attribution License (ODC-BY) v1.0: <http://opendatacommons.org/licenses/by/1.0/>.

**Format:** Text-file (e.g. bath1/frame\_0001.dat) JPG-images of depth and amplitude data

**Keywords:** scene classification indoor scenes 3D data swissranger

**Download URL:**

- <http://opendata.cit-ec.de/attachments/download/117/bath1.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/118/bath2.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/119/bath3.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/120/bedroom1.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/121/bedroom2.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/122/bedroom3.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/123/bedroom4.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/124/eating1.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/125/eating2.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/126/eating3.tar.gz>
- <http://opendata.cit-ec.de/attachments/download/127/eating4.tar.gz>

Live Search:

Linked Publications: A Detailed Analysis of a New 3D Spatial Feature Vector for Indoor Scene Classification. Indoor Scene Classification using combined 3D and Gist Features

Toolkit Contents:

- Systems
- Components
- Publications
- Data Sets
- Tutorials
- Manuals





# Subject Specific Pilots first

Since generic - cross-disciplinary infrastructures are much more complex, challenging

- Investigation of Data & Publication management in different disciplines (Life Sciences, Social Sciences & Humanities)
- Learn how to connect research data from disciplinary infrastructures with publications in OpenAIRE
- Demonstration of challenges, issues & opportunities



# Subject Specific Pilots

## Life Sciences Demonstrator

No Need for a Cognitive Map: Decentralized Memory for Insect Navigation

Holk Cruse<sup>UNIBI</sup> and Rüdiger Wehner

MeSH **Text-mined terms** FP7 References 3 Citations Full text available

### Identifiers

- PMID:21445233
- University of Bielefeld (1886087)
- DOI: 10.1371/journal.pcbi.1002009
- PMCID:PMC3060166

The following biological entities have been automatically c

- Gene Ontology Terms
  - Memory
  - lateral inhibition
  - behaviour
  - learning
  - localization
  - long term memories
  - short term memory
  - habituation
  - development
  - vision
  - locomotion
  - Cognition
  - visual learning
- Organisms
  - animals
  - desert ants

Search in **Query**  
 Protein Knowledgebase (UniProtKB)

10 results for organism:"Cataglyphis bicolor (desert ant) [299895]" in UniProtKB sorted by score descending   
 Browse by taxonomy, keyword, gene ontology, enzyme class or pathway | Reduce sequence redundancy to 100%, 90% or 50% Page 1 of 1

**Results**

Expand search to "Cataglyphis bicolor (desert ant) [299895]" to include lower taxonomic ranks

Entry	Entry name	Status	Protein names	Gene names	Organism	Length
<input type="checkbox"/> Q2YGT5	Q2YGT5_9HYME	★	Cytochrome c oxidase subunit 1	COI CO1	Cataglyphis bicolor (desert ant)	255
<input type="checkbox"/> G5DCQ8	G5DCQ8_9HYME	★	Cytochrome c oxidase subunit 1		Cataglyphis bicolor (desert ant)	250
<input type="checkbox"/> G5DCU1	G5DCU1_9HYME	★	Cytochrome c oxidase subunit 1		Cataglyphis bicolor (desert ant)	250
<input type="checkbox"/> G5DCU3	G5DCU3_9HYME	★	Cytochrome c oxidase subunit 1		Cataglyphis bicolor (desert ant)	250
<input type="checkbox"/> A1YW69	A1YW69_9HYME	★	Cytochrome c oxidase subunit 1	CO1	Cataglyphis bicolor (desert ant)	255
<input type="checkbox"/> Q2YGS8	Q2YGS8_9HYME	★	Cytochrome c oxidase subunit 2	COII	Cataglyphis bicolor (desert ant)	167
<input type="checkbox"/> Q2VWK6	Q2VWK6_9HYME	★	Cytochrome c oxidase subunit 2	COII	Cataglyphis bicolor (desert ant)	167
<input type="checkbox"/> A1YW68	A1YW68_9HYME	★	Cytochrome c oxidase subunit 1	CO1	Cataglyphis bicolor (desert ant)	255
<input type="checkbox"/> A1YW80	A1YW80_9HYME	★	Cytochrome c oxidase subunit 1	CO1	Cataglyphis bicolor (desert ant)	255
<input type="checkbox"/> Q2VWK7	Q2VWK7_9HYME	★	Cytochrome c oxidase subunit 2	COII	Cataglyphis bicolor (desert ant)	167





# Subject Specific Pilots

## Social Sciences & Humanities Research information Demonstrator

**PUBLICATION**  
WELFARE STATE EFFECTS ON SOCIAL CAPITAL AND INFORMAL... (2005) [Open access](#)

<b>Research</b>	Title	Welfare state effects on social capital and informal solidarity in the European Union: evidence from the 1999/2000 European Values Study	<b>Data</b>
<b>Input</b>	Published in	Policy and Politics: Studies of local government and its services, Vol. 33, No. 1, p.33-54. ISSN 03055736.	<b>Cites</b>
European Value Studies >	Date	2005	European Values Study 199... >
<b>Persons</b>	Type	article	EVS'99/2000 : Release 1 -... >
<b>Author</b>	Publication	> <a href="http://evs.uvt.nl/id/evs-uvt-nl:oi:evs.uvt.nl:3256420">http://evs.uvt.nl/id/evs-uvt-nl:oi:evs.uvt.nl:3256420</a>	<b>Publications</b>
Halman, Dr. L.C.J.M. >	Persistent Identifier	> urn:nbn:nl:ui:12-3256420	<b>Cites</b>
Halman, L.C.J.M. >	Metadata	> XML	Welfare States, Solidarit... >
Oorschot, W.J.H. van >			Three worlds of welfare c... >
Arts, W.A. >			Who should get what, and ... >
			Individual motives for co... >
			Wij en zij in Europa: De ... >
<b>Organisations</b>			<b>Cited by</b>
<b>Repository</b>			Making the difference in ... >
Tilburg University >			Culture and social policy... >
			Multi-level d... >
			Welfare sp... >
			The institutional embedde... >
			<b>Collections</b>
			No collections defined

**External Database Links**

**Concept: ethnocentrism**  
Variable: V59: dont like as neighbours: muslims (Q7H)  
Variable: V60: dont like as neighbours: immigrants/foreign workers (Q7I)  
Variable: V64: dont like as neighbours: jews (Q7M)  
Variable: V65: dont like as neighbours: gypsies (Q7N)

**Concept: informal social solidarity**  
Variable: V272: are you concerned with: elderly people (Q80A)  
Variable: V273: are you concerned with: unemployed people (Q80B)  
Variable: V274: are you concerned with: immigrants (Q80C)  
Variable: V275: are you concerned with: sick and disabled (Q80D)  
Variable: V276: are you prepared to help: immediate family (Q81A)  
Variable: V277: are you prepared to help: people neighbourhood (Q81B)

RESEARCH EUROPEAN VALUES STUDIES

**EDUCATION**

<b>Research</b>	Title	European values studies
No research defined	Date	01 / 1978 - 01 / 2005
<b>Persons</b>	Status	Completed
<b>Project leader</b>	Research number	OND1236147
L.C.J.M. Halman >		
<b>Researcher</b>		
Prof.dr. W.A. Arts >		
Prof.dr. P.J.D. Drenth >		
Prof.dr. J.A.P. Hagenaars >		
<b>Organisations</b>		
<b>Collaboration</b>		
Oldendorff Research Insti... >		
<b>Secretariat</b>		
<b>Department of Organisation...</b>		
<b>Related</b>		
Dept. of Organisation Stu... >		
Oldendorff Research Insti... >		
<a href="http://www.narcis.nl/orga...">http://www.narcis.nl/orga... &gt;</a>		

**ABSTRACT**  
Study of cross-national differences and similarities in basic value orientations in the domains of religion and morality, society and politics, primary relations, sexuality, education, labour and leisure time. Originally in Western Europe only, but meanwhile undertaken in many more countries (USA, Canada, Eastern Europe, Russia). First survey in 1981, second survey in 1990, third is scheduled for 1999.

**ABSTRACT (NL)**  
Onderzoek naar cross-nationale verschillen en overeenkomsten in fundamentele waardenoriëntaties op de terreinen van religie en moraal, maatschappij en politiek, primaire relaties, seksualiteit, opvoeding, arbeid en vrije tijd. Oorspronkelijk alleen in West-Europa, maar inmiddels ondernomen in veel landen (VS, Canada, Oost Europa, Rusland). De eerste survey was in 1981, de tweede in 1990, de derde zal in 1999 plaatsvinden. Methoden en technieken: survey

**CLASSIFICATION**

AB2200	Social integration and social structure
D42200	Social and public administration
D61000	Sociology

**Data**

**Related**

- European Election Studies... >
- European Election Studies... >
- European Values Study - E... >
- European Values Study 199... >
- EVS'99/2000 : Release 1 -... >
- European and World Value ... >
- European Values Study 199... >
- EVS'99/2000 : Release 1 -... >

**Publications**

**Output**

- Welfare state effects on ... >
- European work orientation... >
- Blame or fate, individual... >

**Collections**

No collections defined

Leibniz Institute for the Social Sciences

gesis

DESCRIPTION TABULATION ANALYSIS

ZA3811: EVS 1999: Integrated Dataset

Variable v272: are you concerned with: elderly people (Q80A)

LITERAL QUESTION

Q.80  
<Show card 80>  
To what extent do you feel concerned about the living conditions of:  
Q.80A elderly people in your country

-5 other missing  
-4 question not asked  
-3 not applicable  
-2 no answer  
-1 don't know

1 very much  
2 much  
3 to a certain extent  
4 not so much  
5 not at all

Comparability:  
Trend question (EVS 2008=EVS 1999).  
(Modified trend: interviewer instruction).

Show Card

Comparative Variables 1981-2008  
s139 - EVS longitudinal Data File 1981-2008  
V290 - Integrated Dataset - EVS 2008

Original Language Documentation  
v272 - Austria EVS 1999

### Microdata





# Publications & Data across Infrastructures

What to consider when connecting subject-specific  
infrastructures with OpenAIRE

- Interfaces of subject-specific infrastructures
  - Designed for community needs; seldom for generic purposes
- Metadata descriptions about research data
  - Diversity of subject-specific metadata formats
  - Seldom general purpose metadata (e.g. DataCite metadata kernel)
  - Persistent identification of datasets is a long-term task



# Enriched Publication View

In the new OpenAIRE portal

## Profiling Attitudes for Personalized Information Provision

Ioannidis, Yannis; Karvounis, Manos; Georgiou, Thodoris; Katifori, Akrivi; Triantafyllidi, Mei Li; Kyriakidi, Marialena; Iatropoulou, Katerina; Vayanou, Maria; Mouzakidis, Alexandros; Stamatogiannakis, Lefteris; Manola, Natalia (2011)  
English

IDs: DOI: XXXXXXXX

PAROS is a generic system under design whose goal is to offer personalization, recommendation, and other adaptation services to information providing systems. In its heart lies a rich user model able to capture several diverse aspects of user behavior, interests, preferences, and other attitudes. The user model is instantiated with profiles of users, which are obtained by analyzing and appropriately interpreting potentially arbitrary pieces of user-relevant information coming from diverse sources. These profiles are maintained by the system, updated incrementally as additional data on users becomes available, and used by a variety of information systems to adapt the functionality to the users' characteristics.

Related Data	Related Publications	Metrics
<p><b>Acropolis Questionnaires for the CHES project</b> [cites]</p> <p>Roussou, Maria; Katifori, Vivi (2011)</p> <ul style="list-style-type: none"> <li>Report analyzing the results [partOf]</li> <li>Questionnaire Dec 2011 [partOf]</li> <li>Questionnaire Jan 2012 [partOf]</li> </ul>		
<p><b>Analysis of interviews Nov-Dec 2011</b> [cites]</p> <p>Roussou, Maria; Katifori, Vivi (2011)</p>		
<p><b>Profiling Attitudes for Personalized Information</b> [references]</p> <p>Iatropoulou, Katerina (2010)</p>		
<p><b>Profiling Service URL</b> [uses software]</p> <p>Karvounis, Manos (2012)</p>		



- Link to datasets
- Link to publications
- Add to collection

### Download from repositories

Zenodo

### Funded by projects

CHES (270198)

DRIVER II (212147)

OPENAIRE (246686)

### Related to Community

EGI (CERN)

### Cite this article

Chicago

Via algorithm X  
10 Dec 2011  
Confidence: 89%

Ioannidis, Yannis, Karvounis, Manos, Georgiou, Thodoris, Katifori, Akrivi, Triantafyllidi, Mei Li, Kyriakidi, Marialena, Iatropoulou, Katerina, et al. "Profiling Attitudes for Personalized Information Provision," May 1, 2011.





# Time for Questions!

Find out more about OpenAIRE:

OpenAIRE portal: <http://www.openaire.eu>

OpenAIRE "Lab": <http://beta.openaire.eu>

OpenAIRE Guidelines: <https://guidelines.openaire.eu>

Zenodo repository: <http://zenodo.org>

D-Net software: <http://dnet.research-infrastructures.eu>

