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SHARE YOUR KNOWLEDGE

Your today's research is tomorrow's science:
manage it, preserve it, share it. Now.

DSpace-CRIS introduction

euroCRIS SMM, Bratislava, 2017 Nov. 21st

www.4science.it

DSpace and “extended” DSpace

- DSpace is the most popular free open-source Digital Asset Management System in the world, used for Institutional Repositories to manage publications…
- …but more and more HE and Research Institutions are asking for Research Information & Data Management tools

- Why not using an “extended” version of DSpace to meet these two relevant needs?

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DSpace-CRIS: what?

- In 2009, the team now at 4Science led by Susanna Mornati and Andrea Bollini, together with the team at Hong Kong University led by David T. Palmer, created DSpace-CRIS
- https://wiki.duraspace.org/display/DSPACECRIS/DSpace-CRIS+Home (documentation)
- DSpace-CRIS is an “extended” version of DSpace, with a powerful and flexible data model to describe not just publications, but all the entities that populate the research environment and their meaningful links
- https://dspace-cris.4science.it/ (demo)

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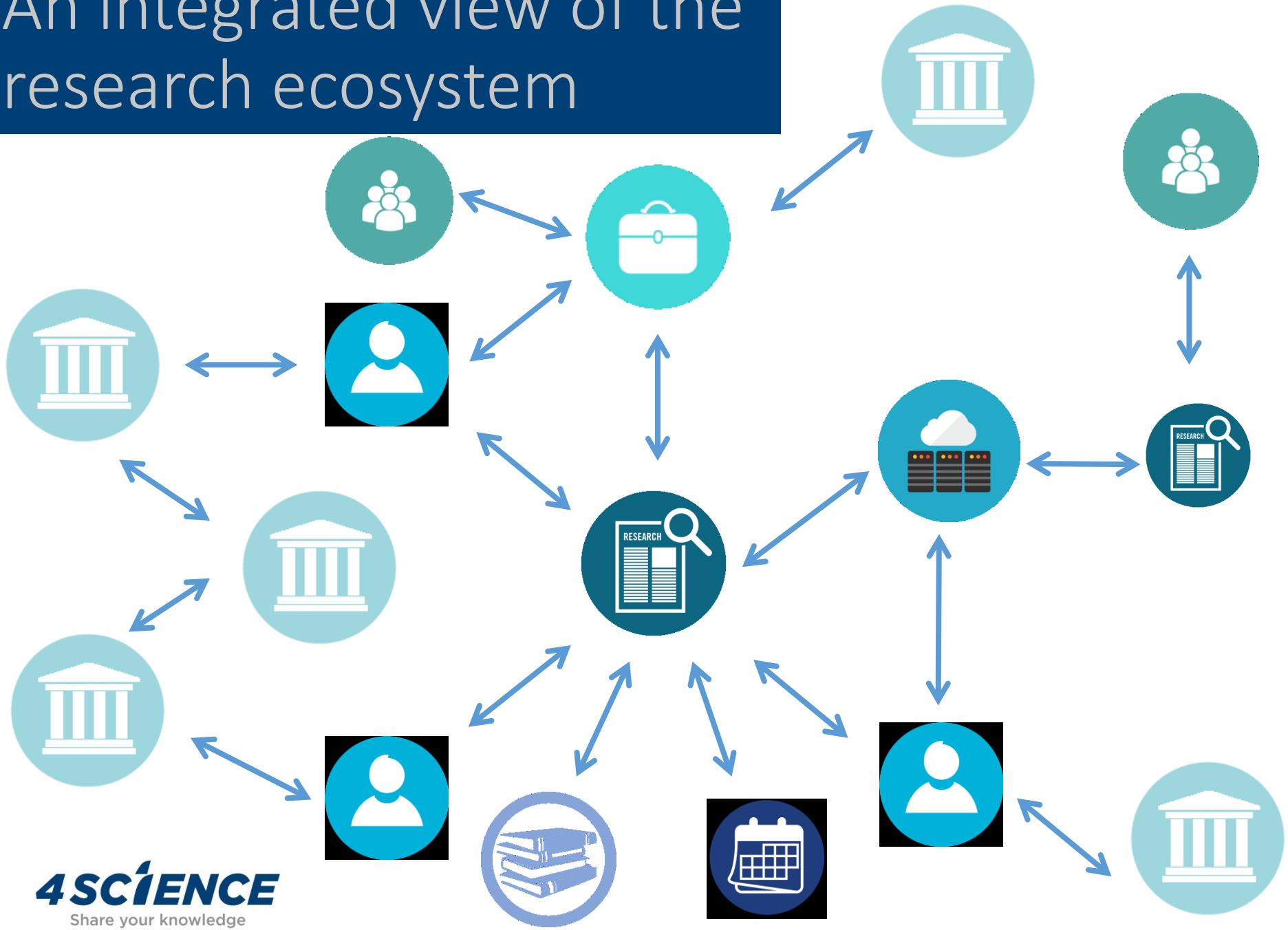
An integrated view of the research ecosystem



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DSpace-CRIS: why?

- Buying a commercial platform to manage Research Information (a CRIS or RIMS) is expensive and binds your institutions to a proprietary system

- DSpace-CRIS is free, open source, compliant with open standards, and provides your institution with a sustainable and effective tool to manage research information such as researchers' profiles, department pages, project grants & awards, research outputs, metrics, reports and statistics

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DSpace-CRIS: why?

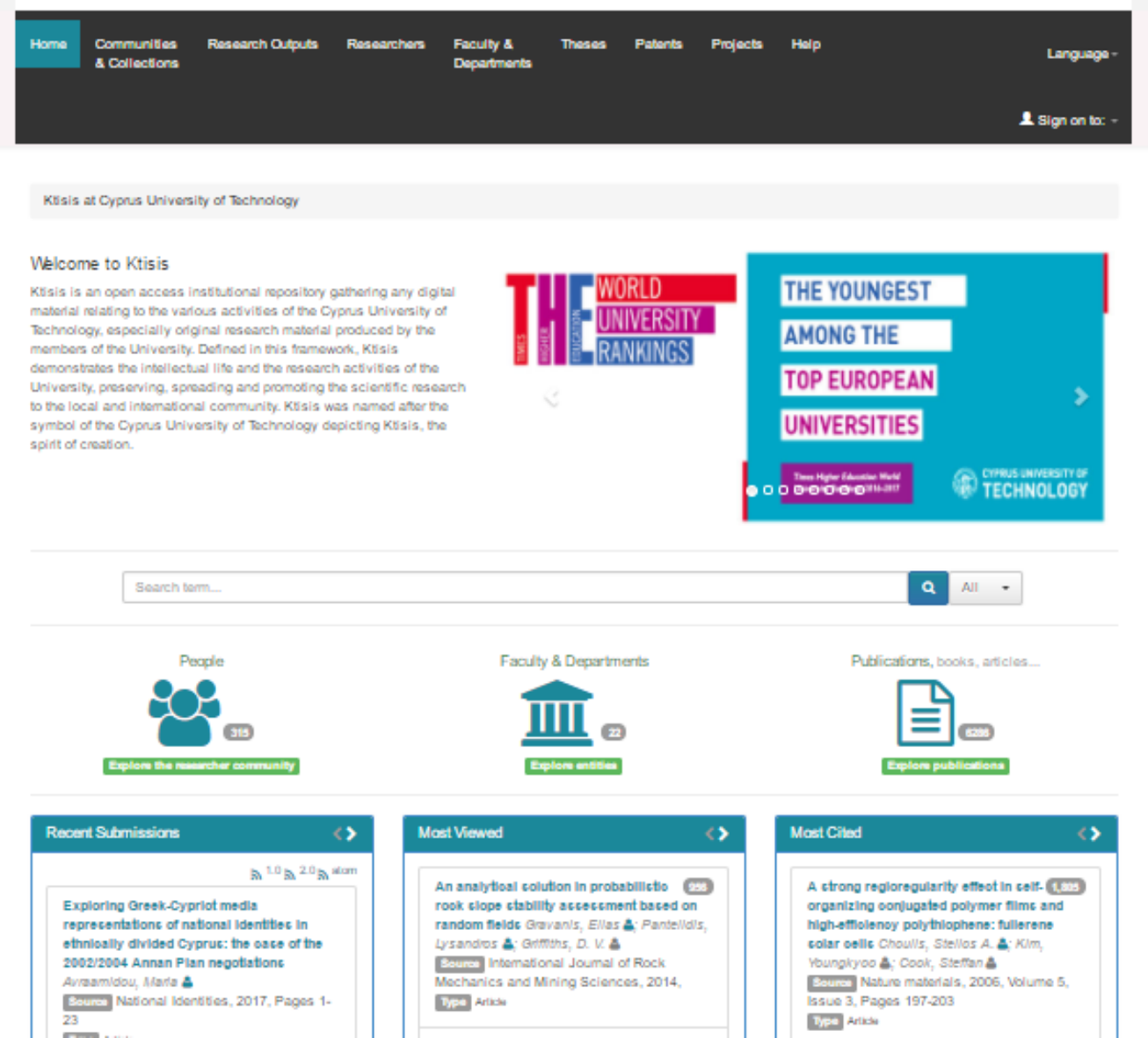
- DSpace-CRIS extends the use of DSpace where more sophisticated management of the entities that populate a specific domain is needed:
  - E.g. Researchers as authors for publications
  - E.g. Departments as aggregation level

(no need to implement full functionality of a CRIS to benefit from its advantages in several use cases)

- DSpace-CRIS is particularly useful also for institutions that have already implemented a CRIS with a commercial tool, so they can expose some CRIS information as public and exploit the dissemination power of DSpace-CRIS to achieve visibility

DSpace-CRIS: make it beautiful

- State-of-art technology for your UI (next: version 7 with AngularJS UI)
- Adaptive, responsive
- Icons for intuitive exploration
- Widgets for most viewed, most cited, etc.



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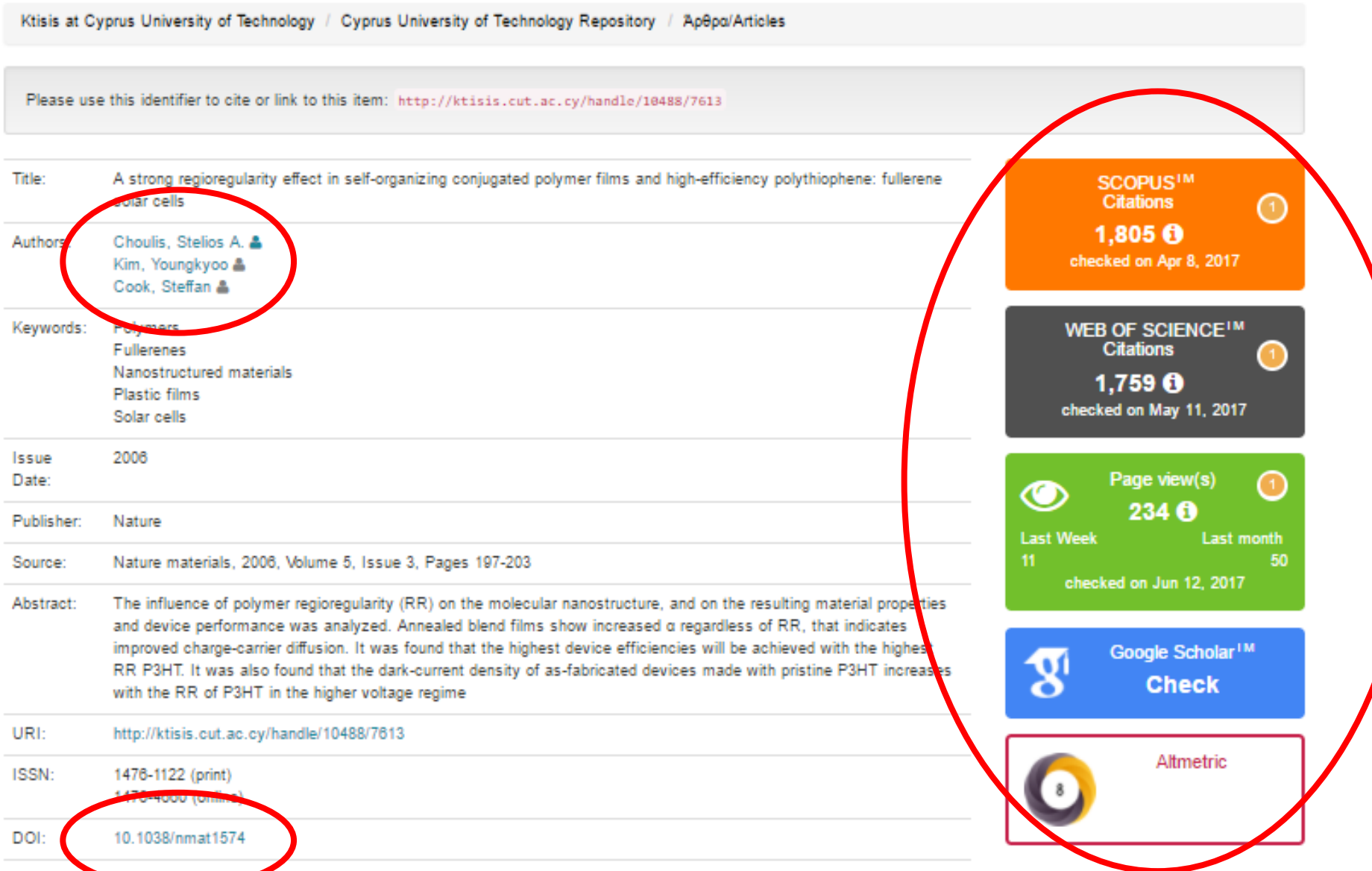
DSpace-CRIS use cases: an item



Ktisis at Cyprus University of Technology / Cyprus University of Technology Repository / Άρθρα/Articles

Please use this identifier to cite or link to this item: http://ktisis.cut.ac.cy/handle/10488/7613

Title:	A strong regioregularity effect in self-organizing conjugated polymer films and high-efficiency polythiophene: fullerene solar cells
Authors:	Choulis, Stelios A. Kim, Youngkyoo Cook, Steffan
Keywords:	Polymers Fullerenes Nanostructured materials Plastic films Solar cells
Issue Date:	2006
Publisher:	Nature
Source:	Nature materials, 2006, Volume 5, Issue 3, Pages 197-203
Abstract:	The influence of polymer regioregularity (RR) on the molecular nanostructure, and on the resulting material properties and device performance was analyzed. Annealed blend films show increased α regardless of RR, that indicates improved charge-carrier diffusion. It was found that the highest device efficiencies will be achieved with the highest RR P3HT. It was also found that the dark-current density of as-fabricated devices made with pristine P3HT increases with the RR of P3HT in the higher voltage regime
URI:	http://ktisis.cut.ac.cy/handle/10488/7613
ISSN:	1476-1122 (print) 1476-4660 (online)
DOI:	10.1038/nmat1574

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1,759
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checked on Jun 12, 2017

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Altmetric

DSpace-CRIS use cases: a researcher

Kalogirou, Soteris A

Network Lab | View Statistics | Email Alert | RSS Feed | Claim profile

Profile | Bibliometrics | Publications | Projects

Profile

Full Name Kalogirou, Soteris A. **Greek Name** Καλογήρου, Σωτήρης

Department Department of Mechanical Engineering and Materials Science and Engineering

Faculty Faculty of Engineering and Technology

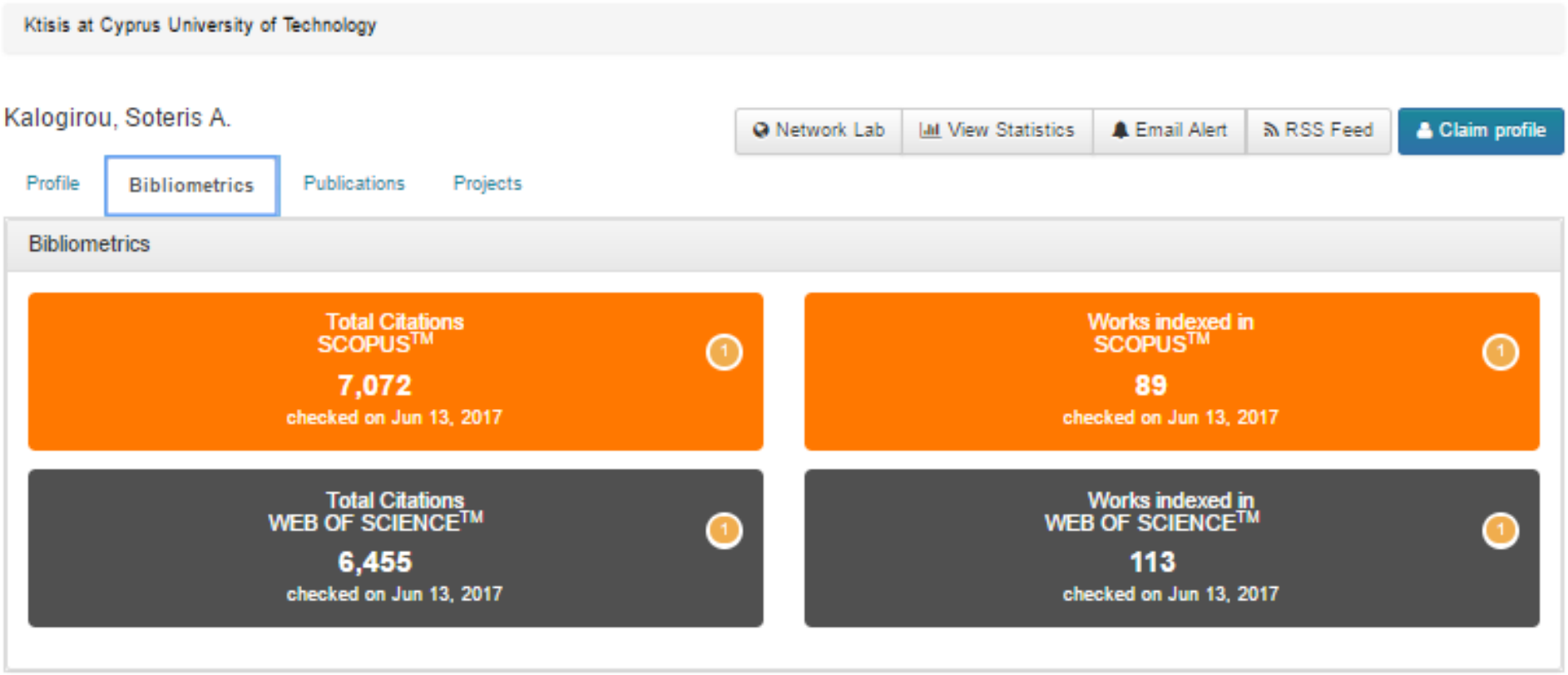
Email soteris.kalogirou@cut.ac.cy

ORCID 0000-0002-3654-1437 **Scopus Author ID** 7005998383 **Researcher ID** D-3883-2015

Biography

Soteris Kalogirou was born in Trachonas, which is a suburb of Nicosia. He is married and has two children. He received his first Degree in Mechanical Engineering from the Higher Technical Institute (1982) his Master of Philosophy (M.Phil) in Mechanical Engineering from the Polytechnic of Wales (1991) and his Ph.D in Mechanical Engineering from the University of Glamorgan, UK (1995). In June 2011 he was awarded from the University of Glamorgan, UK the title of D.Sc. He was employed as a Building Services Consultant by the firm Intersol Engineering from 1982-1987, and in various positions in the Mechanical Engineering and Engineering Practice Departments of the Higher Technical Institute from 1987 to 2007. In 2008 he was transferred to the Cyprus University of Technology and now he is a Senior Lecturer in Mechanical Engineering. He is considered internationally as an expert in the field of solar thermal collectors and to the use of artificial intelligence techniques for the performance prediction of energy and renewable energy systems. He is member of CIBSE (Chartered Institution of Building Services Engineers),

DSpace-CRIS use cases: metrics



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DSpace-CRIS use cases: publications

Kalogirou, Soteris A.

Network Lab | View Statistics | Email Alert | RSS Feed | Claim profile

Profile | Bibliometrics | **Publications** | Projects

Publications (Articles) | Show/Hide filters

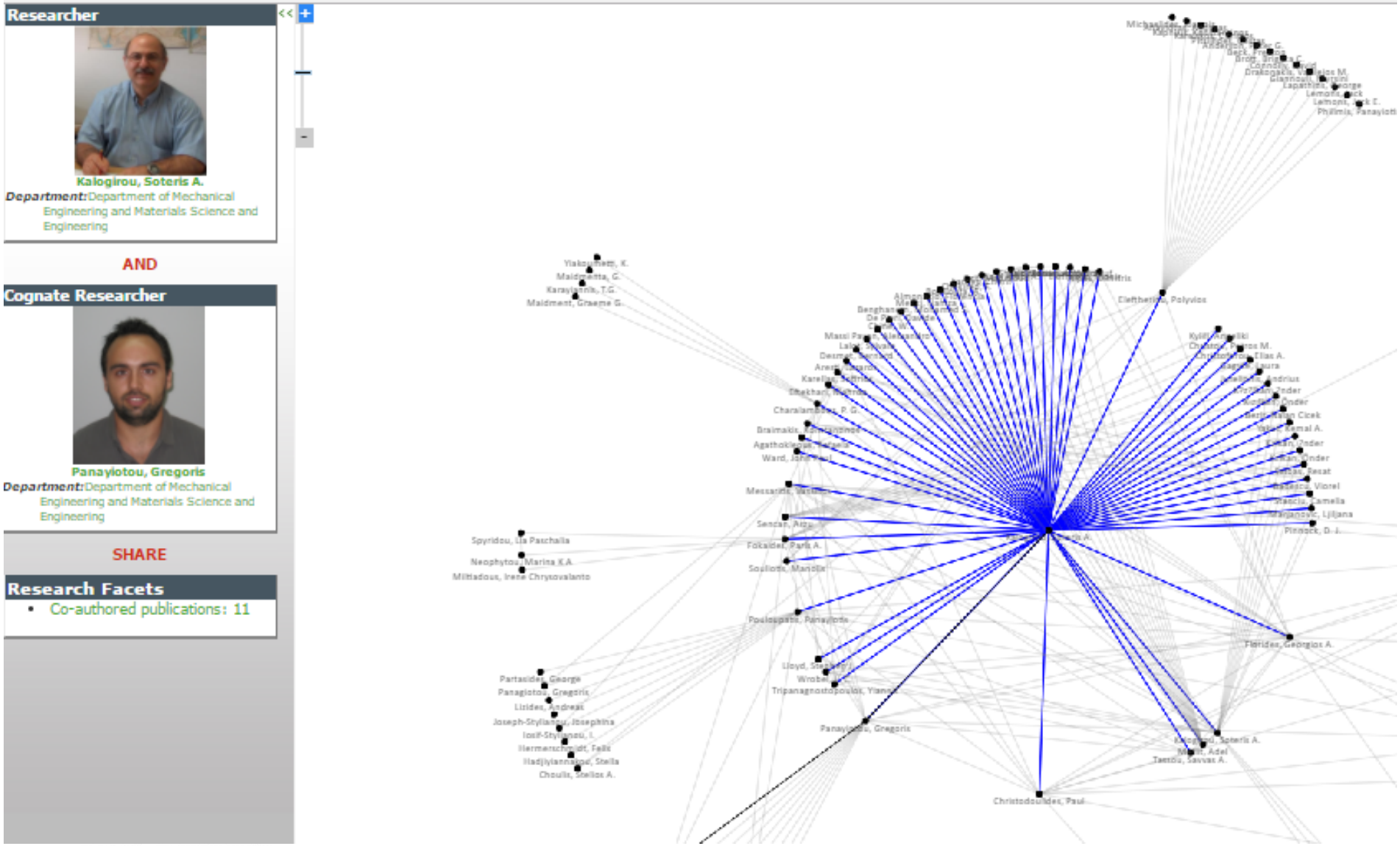
Results 1-20 of 133 (Search time: 0.044 seconds).

1 2 3 4 5 6 7 →

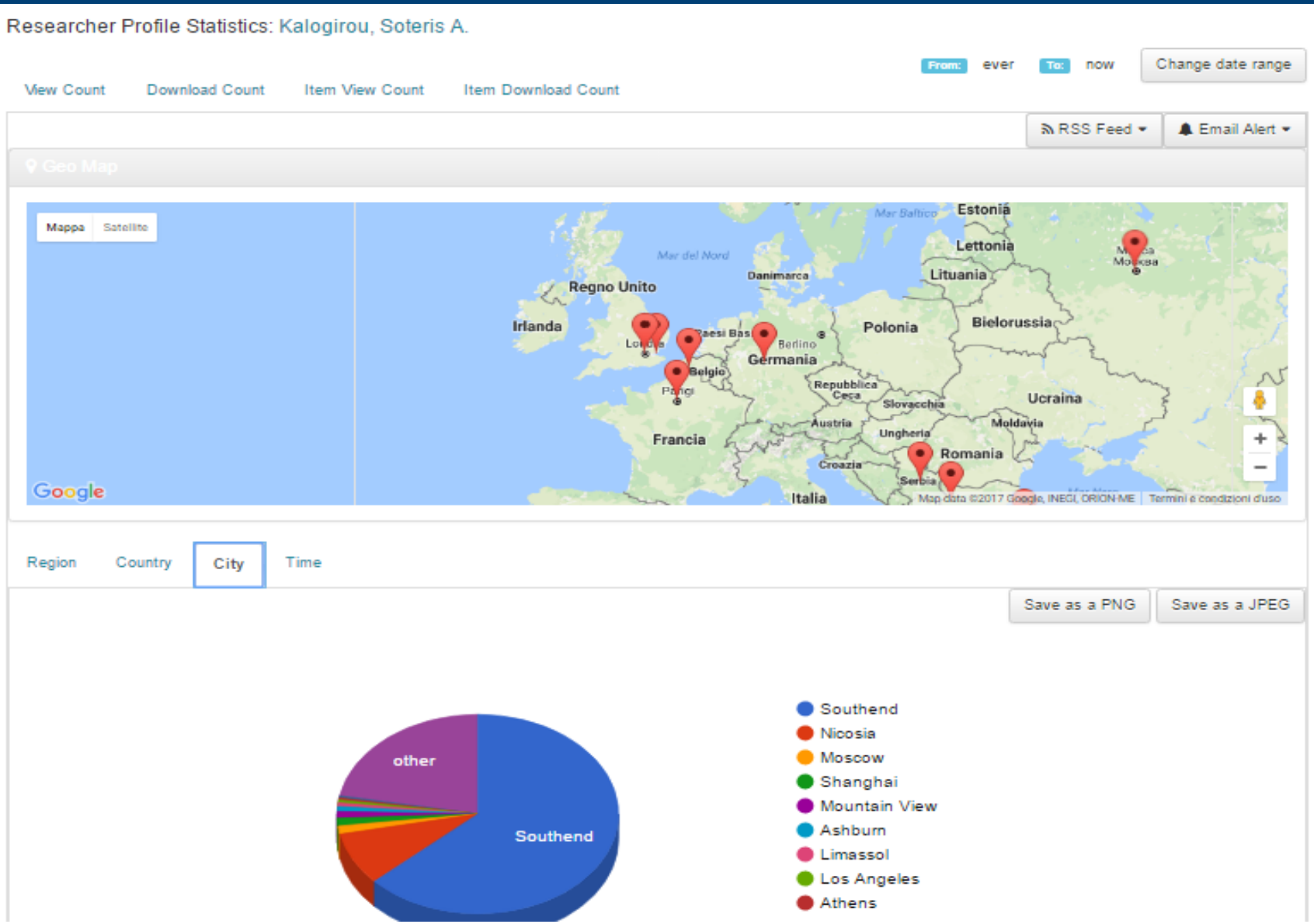
Refman | EndNote | Bibtex | RefWorks | Excel | CSV | Send via email | Export

	Issue Date	Title	Author(s)
1	2012	A detailed thermal model of a parabolic trough collector receiver	*Kalogirou, Soteris A.*
2	2005	A new approach using artificial neural networks for determination of the thermodynamic properties of fluid couples	*Sencan, Arzu; Kalogirou, Soteris A.*
3	2011	A note from the Editors of Energy	*Wang, Ruzhu; Lund, Henrik; Kalogirou, Soteris A.*
4	1999	A thermal model for reptiles and pelycosaurs	*Florides, Georgios A.; Wrobel, L. C.; Kalogirou, Soteris A.; Tassou, Savvas A.; Florides, Georgios A.; Wrobel, L. C.; Kalogirou, Soteris A.; Tassou, Savvas A.*
5	2006	An adaptive wavelet-network model for forecasting daily total solar-radiation	*Mellit, Adel; Benghanem, Mohamed S.; Kalogirou, Soteris A.; Mellit, Adel; Benghanem, Mohamed S.; Kalogirou, Soteris A.*
6	2011	ANFIS-based modelling for photovoltaic power supply system: a case study	*Mellit, Adel; Kalogirou, Soteris A.; Mellit, Adel*

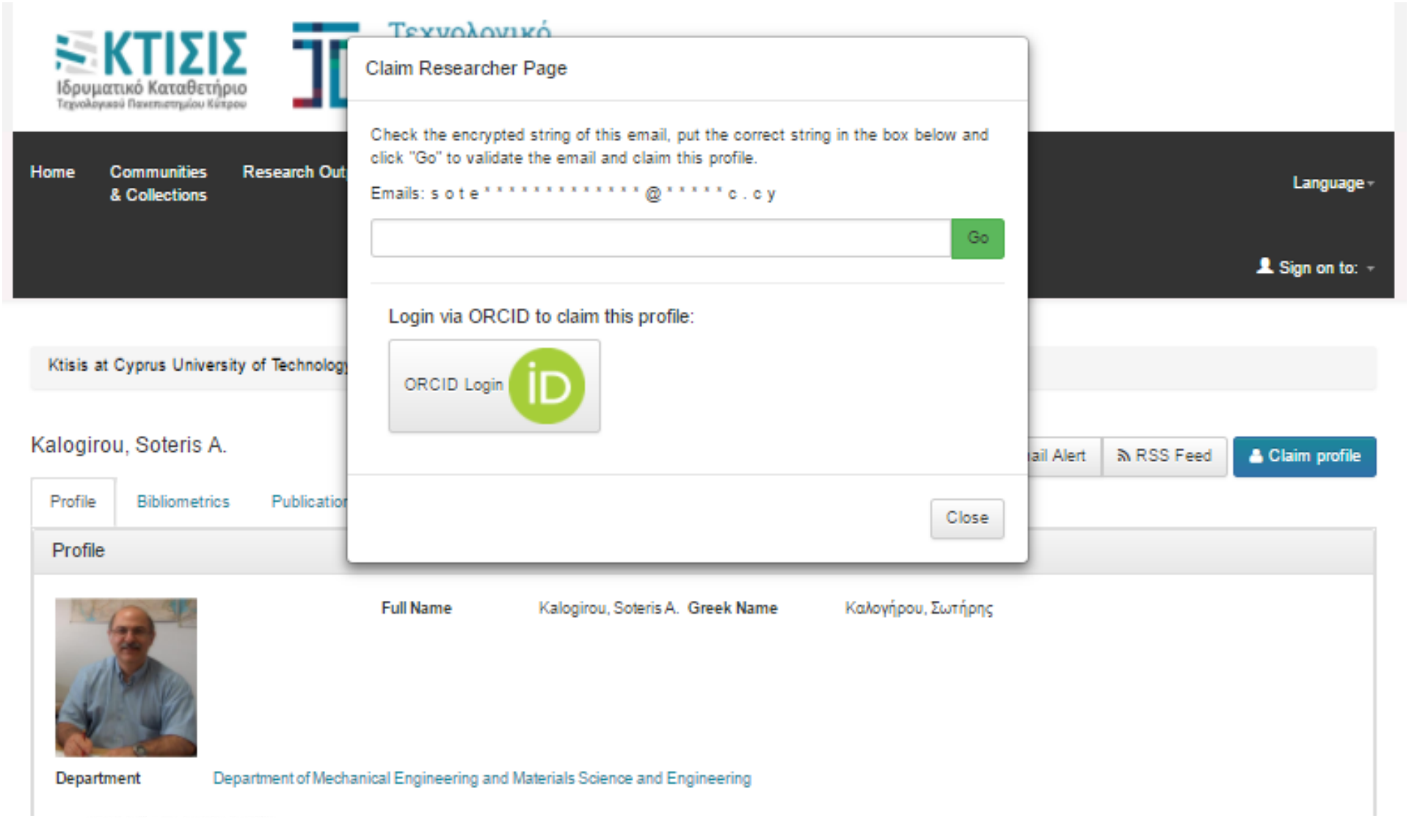
DSpace-CRIS use cases: network



DSpace-CRIS use cases: statistics



DSpace-CRIS use cases: ORCID v.2



DSpace-CRIS use cases: Research Data

- Recently at 4Science we released, free and open source, an integration with CKAN, the world's leading open-source data management platform
- Using an extensible viewer framework you can now offer data discovery, exploration, preview, sampling and visualization from your DSpace-CRIS repository just by adopting the CKAN add-on!
- CKAN makes open webservices for tabular data available: https://ckan.org/
- DSpace-CRIS & DSpace-CKAN add-on: https://github.com/4Science/dspace-ckan

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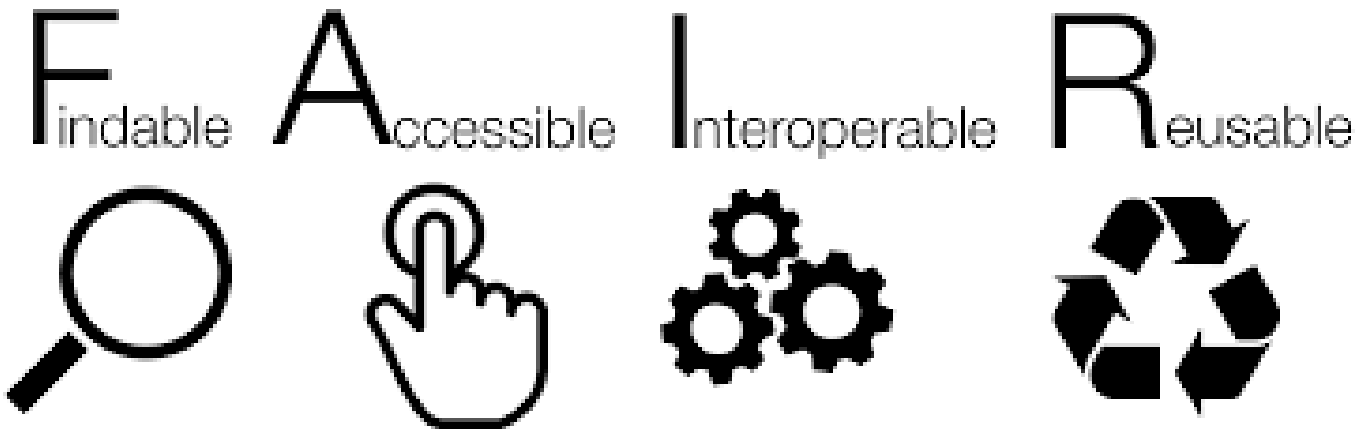
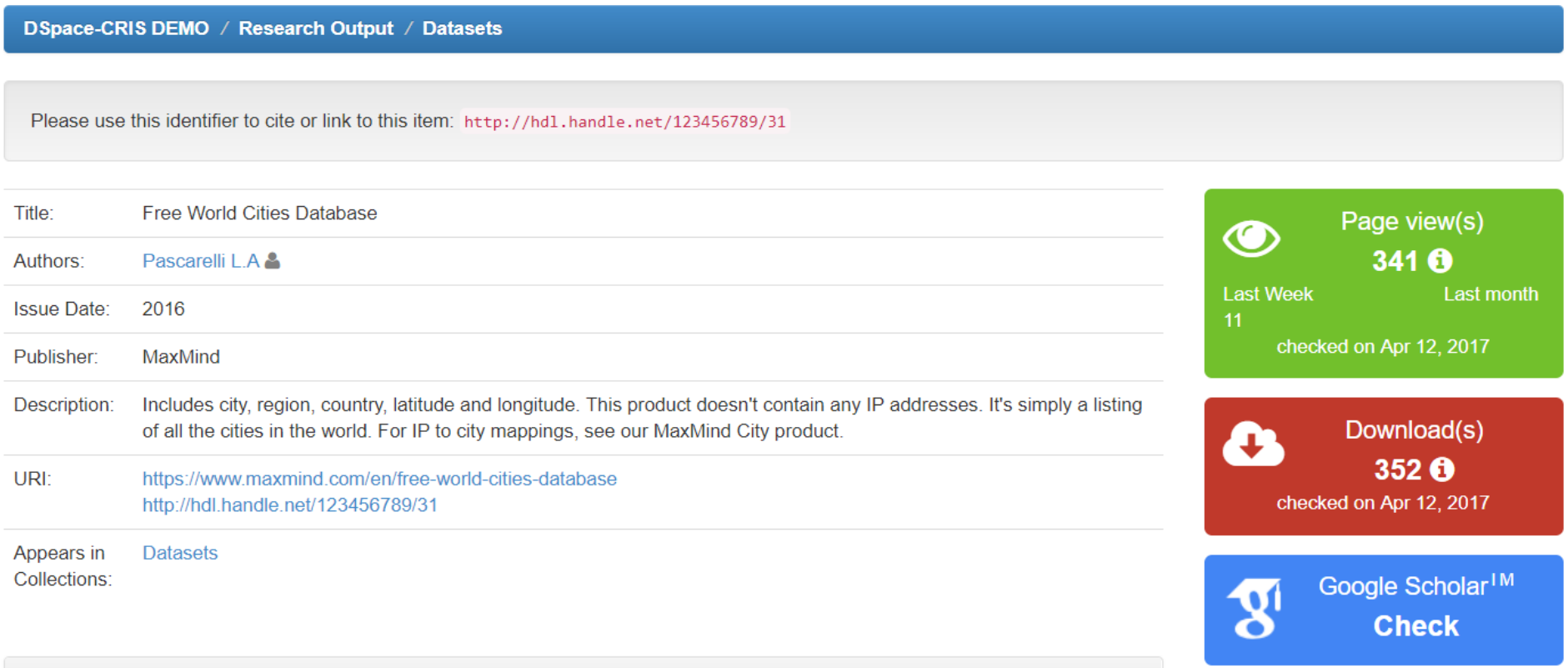
DSpace-CRIS use cases: Research Data

- Using DSpace and CKAN together you can make your research data FAIR:



- https://www.force11.org/group/fairgroup/fairprinciples

DSpace-CRIS use cases: Research Data



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CKAN Add-On Module: preview tabular & geospatial data

Paginated and filterable

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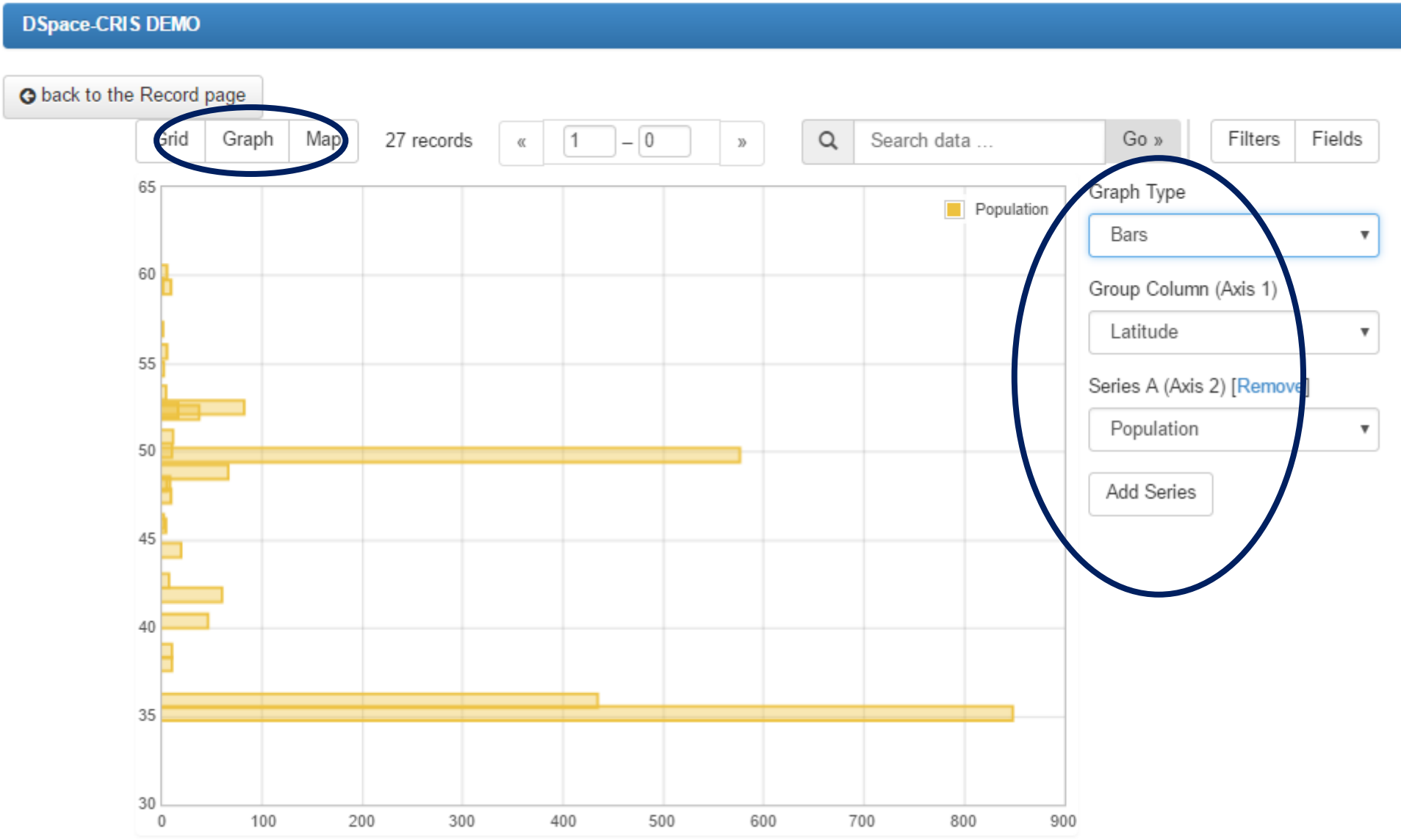
CKAN Add-On Module: preview tabular & geospatial data

Graph visualization



CKAN Add-On Module: preview tabular & geospatial data

Interactive map visualization

Grid | Graph | Map | 639 records | « 1 – 100 » | Search data ... | Go » | Filters

lon	lat	clase	*municipio*	nombre	dirección	actividad
-16.637585	28.1580…	turismo	Vilaflor	Hotel Vill…	Cm San …	alojamie…
-16.637835	28.1549…	turismo				
-16.662599	28.1216…	turismo				
-16.636974	28.1593…	turismo				
-16.636297	28.1585…	turismo				
-16.66551	28.1187…	turismo				
-16.666047	28.1168…	turismo				
-16.636497	28.1572…	turismo				
-16.366122	28.5127…	turismo				
-16.35427	28.4963…	turismo				
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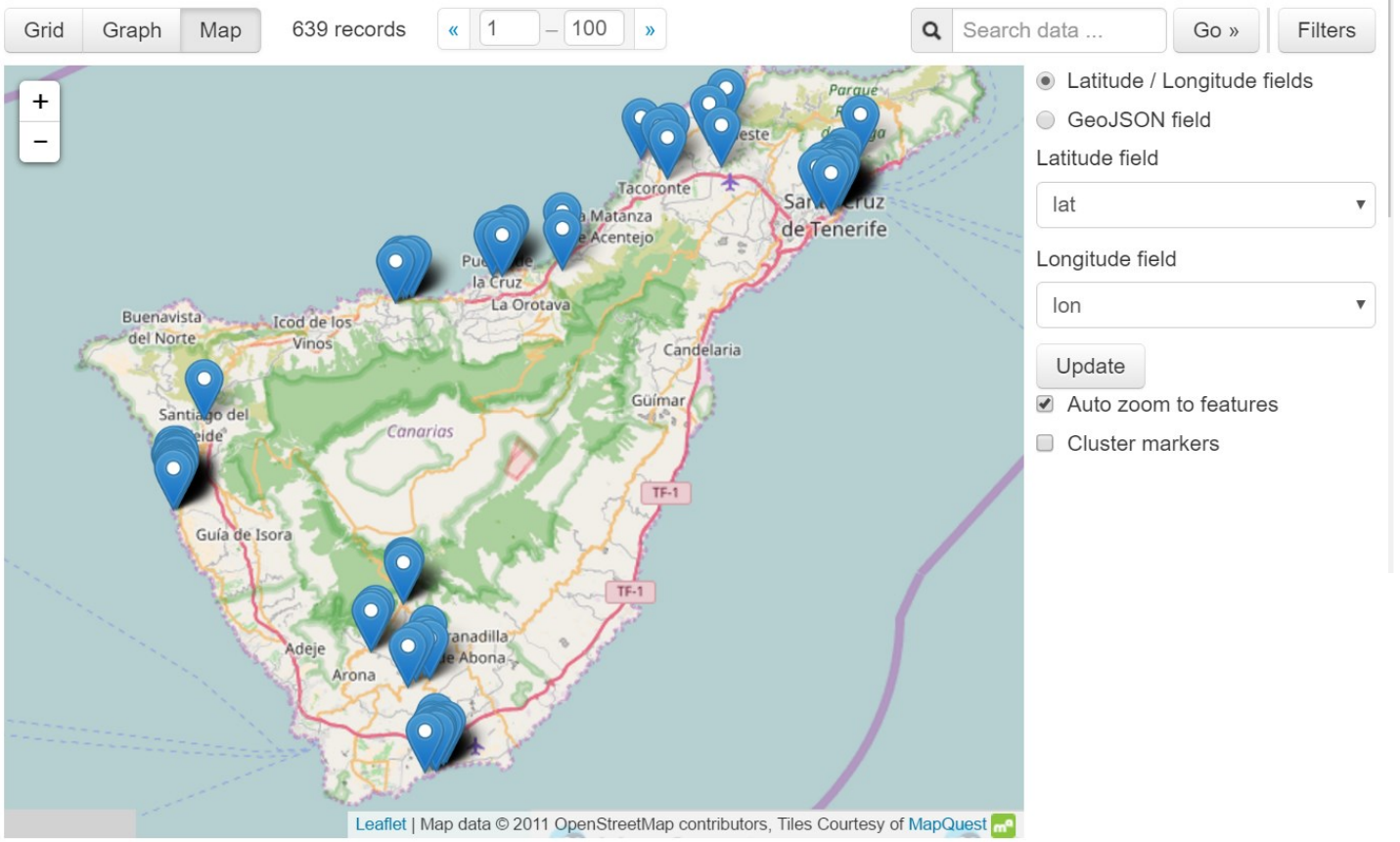
-16.399875	28.4985…	turismo				



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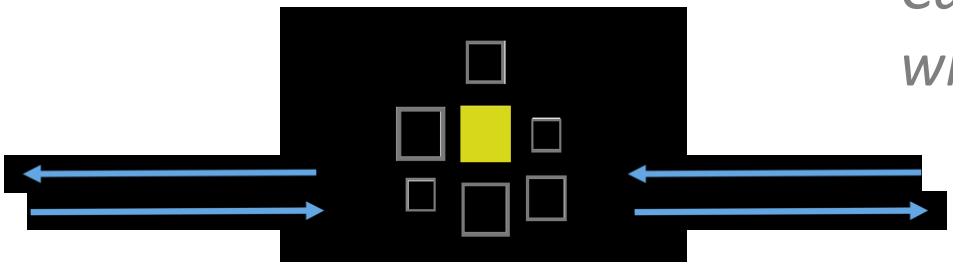
CKAN Integration Add-On: architecture



DSPACE CRIS

Can be integrated with LTP strategy

DURACLOUD™

proxing

- *Open access*
- *Embargo*
- *Restricted*

backend

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Open Source, get it from GitHub!

DSpace-CRIS add-ons

The IIIF Image Viewer, Document Viewer, OCR & Transcription, Video/Audio Streaming are add-on modules presently distributed by 4Science with an innovative business model: contribute to make them open source soon!

http://www.4science.it/en/dspace-add-ons/

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DSpace-CRIS priorities

- Interoperability (bi-directional)
- Open standards
- Persistent Identifiers
- Research data (integration with CKAN for data visualization and analysis)
- Digital libraries for Cultural Heritage

DSpace-CRIS: where?

- https://wiki.duraspace.org/display/DSPACECRIS/DSpace-CRIS+Users
- Universities and Research Centers will obviously benefit from a platform that can collect, manage, preserve and disseminate all information about research and its performance.
- GLAM (Galleries, Libraries, Museums, Archives) can likewise benefit from DSpace-GLAM, a “flavour” of DSpace-CRIS specially configured to provide a rich context to digital assets of the Cultural Heritage

DSpace-CRIS: https://digital.csic.es/ Integrated with an internal CRIS

DC | CSIC Research | Pasarela | Statistics | Contact | Search DSpace | Sign on to:

English español

Welcome to **DIGITAL.CSIC**, the institutional repository of the **Spanish National Research Council**.

DIGITAL.CSIC organizes, preserves and provides open access to CSIC research outputs.

DIGITAL.CSIC Annual Reports

2014 DSA 2017

DIGITAL.CSIC OPEN SCIENCE

Send us your works

Highlights

New CSIC Abierto Issue Out [11/05/2017]
CSIC Abierto 15 features how CSIC institutes have integrated the repository into their scientific communication strategies so as to maximize impact of their research outputs, enhance dissemination of non traditional research outcomes and test innovative ways to share projects. The issue also includes an interview with Open Access Button team.

DIGITAL.CSIC Workshop on Open Science [26/04/2017]
Open Science advocates for making science more collaborative and using new channels and tools to disseminate and share knowledge. Its innovative approach covers the entire research process to increase science quality, transparency and effectiveness and better align it with social challenges. The slides of "Introduction to Open Science" workshop address topics and tools of interest.

Slides of COAR Controlled Vocabularies Webinar in Spanish [23/03/2017]
On March 16, 2017 COAR in partnership with La Referencia held the webinar Vocabularios Controlados para Repositorios: Objetivos y Avances del Grupo de Trabajo COAR. The speakers are members of the Editorial Board of this COAR Working Group

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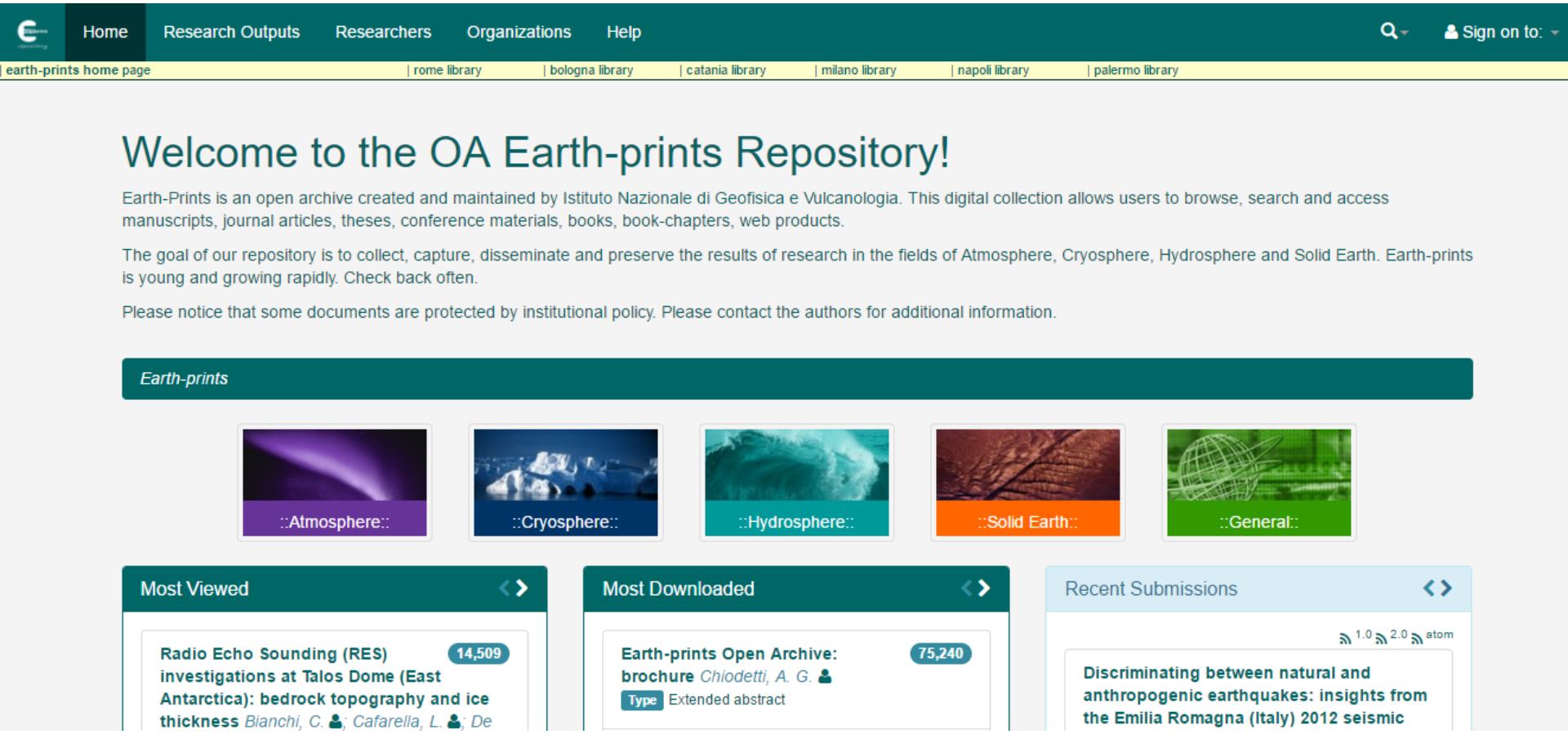
DSpace-CRIS: http://www.earth-prints.org/ Ontological approach



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DSpace-CRIS as a National Portal in Catalunya: http://portalrecerca.csuc.cat/

Collecting data about researchers, organizations, projects, publications from all the Catalan Universities

Run by the Consorci de Serveis Universitaris de Catalunya as a national service to raise visibility and awareness about Catalan Research

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https://tinyurl.com/4s-dashboard

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DSpace-CRIS in a nutshell

Versions 5.8 & 6.2 available on GitHub

Almost 100 DSpace-CRIS installations worldwide:
https://wiki.duraspace.org/display/DSPACECRIS/DSpace-CRIS+Users

The only open-source CRIS, maintained in the context of
a vast and authoritative worldwide community.

Documentation and software available on the DSpace Wiki:
https://wiki.duraspace.org/display/DSPACECRIS/DSpace-CRIS+Home

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4Science: a DSpace Registered Service Provider, with two DSpace Committers and the Lead of the REST API sub-team for DSpace 7

A **longtime commitment** in open source, open standards, interoperability, contributing to the most relevant international communities.

Thanks for your attention!

Susanna Mornati

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linkedin: susannamornati

orcid: 0000-0001-9931-3637

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