

4SCIENCE

SHARE YOUR KNOWLEDGE

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

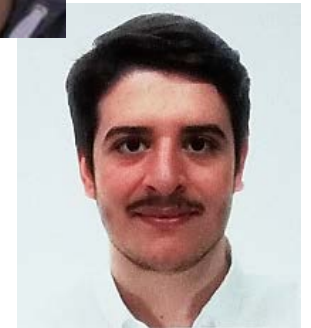
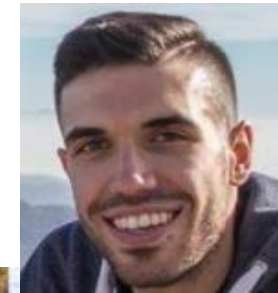
Susanna Mornati, 4Science

Open Research Information & Data Management Tools:
DSpace-CRIS and the Evolution of Institutional Repositories

OpenAIRE National Workshop 2018, Cyprus 9^o May



4Science is a company providing open IT solutions for Research and Cultural Heritage.
Our expert team has been working for Open Science since thirty years.



We support institutions making open solutions available, free from licenses and maintained by international communities, to enhance the sustainability of research information and data and the cultural heritage



OpenAIRE is an extraordinary initiative of the European Union

<https://www.openaire.eu/openaire-tender-calls-winners>

The **Repository tools** pilot by 4Science aims at increasing the **interoperability features** supported by the most widely used platforms in the open science ecosystem.

The project focuses on **two** main topics:

- Implementation and customization of new protocols;
- Implementation of OpenAIRE metadata guidelines and OpenAIRE-APIs interaction.

In particular, 4Science will implement the following **tools** for Literature Repositories, Data Repositories, Journals platforms, and CRIS/RIMS (such as DSpace, Dataverse, OJS and DSpace-CRIS):

- Signposting patterns in OJS;
- ResourceSync framework in DSpace;
- OpenAIRE Guidelines for Data repositories in Dataverse and DSpace-CRIS;
- OpenAIRE project API in DSpace-CRIS.

These new protocols were selected based on [recent recommendations by COAR](#).



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?

DSpace-CRIS

- 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)



An integrated view of the research ecosystem





- 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.

Ktisis at Cyprus University of Technology

Welcome to Ktisis

Ktisis is an open access institutional repository gathering any digital material relating to the various activities of the Cyprus University of Technology, especially original research material produced by the members of the University. Defined in this framework, Ktisis demonstrates the intellectual life and the research activities of the University, preserving, spreading and promoting the scientific research to the local and international community. Ktisis was named after the symbol of the Cyprus University of Technology depicting Ktisis, the spirit of creation.

THE WORLD UNIVERSITY RANKINGS

THE YOUNGEST AMONG THE TOP EUROPEAN UNIVERSITIES

CYPRUS UNIVERSITY OF TECHNOLOGY

Search term...

People 315 Explore the researcher community

Faculty & Departments 22 Explore entities

Publications, books, articles... 428 Explore publications

Recent Submissions

Most Viewed

Most Cited

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)
1476-4860 (online)


DOI: 10.1038/nmat1574

SCOPUS[™]
Citations 1
1,805 
checked on Apr 8, 2017

WEB OF SCIENCE[™]
Citations 1
1,759 
checked on May 11, 2017

Page view(s) 1
234 
Last Week Last month
11 50
checked on Jun 12, 2017

Google Scholar[™]
Check 

Altmetric 

Kalogirou, Soteris A. (sp00110)

Network Lab

View Statistics

Email Alert

RSS Feed

Profile

Contact information

Biography

Bibliometrics

Publications

University responsibilities

Teaching list

Supervision of Phd/Msc projects

Research activities

Research projects

Service to the community/university

Committee memberships - external organizations

Service to the professional/self-development

Participation in editorial boards

Contact Information



Kalogirou, Soteris A.
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

Status Current Staff

DSpace-CRIS use cases: metrics

Ktisis at Cyprus University of Technology

Kalogirou, Soteris A.

[Network Lab](#) [View Statistics](#) [Email Alert](#) [RSS Feed](#) [Claim profile](#)

[Profile](#) **[Bibliometrics](#)** [Publications](#) [Projects](#)

Bibliometrics

<p>Total Citations SCOPUS™</p> <p>7,072</p> <p>checked on Jun 13, 2017</p>	<p>Works indexed in SCOPUS™</p> <p>89</p> <p>checked on Jun 13, 2017</p>
<p>Total Citations WEB OF SCIENCE™</p> <p>6,455</p> <p>checked on Jun 13, 2017</p>	<p>Works indexed in WEB OF SCIENCE™</p> <p>113</p> <p>checked on Jun 13, 2017</p>

DSpace-CRIS use cases: publications

Publications (All) Show/Hide filters

Results 1-20 of 229 (Search time: 0.001 seconds).


1 2 3 4 5 6 7 8 9 10 →


Refman
 EndNote
 Bibtex
 RefWorks
 Excel
 CSV
 Send via email
 Export

<input type="checkbox"/>	Issue Date	Title	Author(s)
<input type="checkbox"/>	1 1996	A comparative study of methods for estimating intercept factor of parabolic trough collectors	Schizas, Christos N.; Kalogirou, Soteris; Neocleous, Costas
<input type="checkbox"/>	2 2012	A detailed thermal model of a parabolic trough collector receiver	Kalogirou, Soteris A.
<input type="checkbox"/>	3 2004	A high frequency phase reference	Panayi, G.; Patz, R.; Watson, S.; Williams, RJ; Kalogirou, Soteris A.; Panayi, G.; Patz, R.; Watson, S.; Williams, RJ

DSpace-CRIS use cases: projects

Building-integrated fibre-reinforced solar technology

 [View Statistics](#)

 [Email Alert](#)

 [RSS Feed](#)

Primary Data

Project title	Building-integrated fibre-reinforced solar technology	Code	BFIRST	Project Coordinator	Kalogirou, Soteris A.
Start date	01-05-2012	Expected Completion	30-04-2016		

Description

Abstract

Photovoltaics (PV) has experienced an exponential increase in the last 10 years and this trend is expected to continue with the support of feed-in-tariff policies in some countries and the on-going production costs reduction. The situation for building-integrated photovoltaics (BIPV) is, however, radically different from that of general PV industry. Despite the impressive figures for the photovoltaic market, current deployment for BIPV applications has still a large room for improvement. New products must be developed in order to overcome technical and non-technical barriers for BIPV at a European scale. A higher degree of standardization is needed in order to facilitate the labour of architects and engineers. A complete characterisation of the products, at laboratory, experimental building and real building scale and the development of extensive product catalogues with exhaustive product performance description are essential in order to encourage the incorporation of BIPV products into construction works. Finally, carefully planned dissemination strategies are important to contribute to a wider knowledge of the technology and its possibilities by all the parties involved in BIPV. The aim of BFIRST project is the development and demonstration of a set of standardised, multifunctional photovoltaic building components based on a recently developed technology for solar cells encapsulation within glass fibre-reinforced composite materials. By means of this new technology, cell encapsulation within composite materials takes place in a single step, yielding a self-supporting, monolithic and lightweight photovoltaic module. Curved and complex geometries can be obtained, opening a wide range of new BIPV products with enhanced building integration possibilities. Moreover, by using a composite material, in which the cells and their connections are completely embedded, the need to use additional materials as a base or covering is eliminated. Protective coating materials can also be added, either onto the mould during the manufacturing process, or afterwards, once the component has been released from the tool. The resulting PV modules present advanced characteristics in terms of structural capacity, transparency, adaptability to non-planar geometries, protection, weight and reduction of stages in the manufacturing process, as well as issues concerning transport, manipulation, assembly and safety and security.

DSPACE-CRIS use cases: network

Researcher << +



Kalogiros, Soteris A.
Department: Department of Mechanical Engineering and Materials Science and Engineering

AND

Cognate Researcher

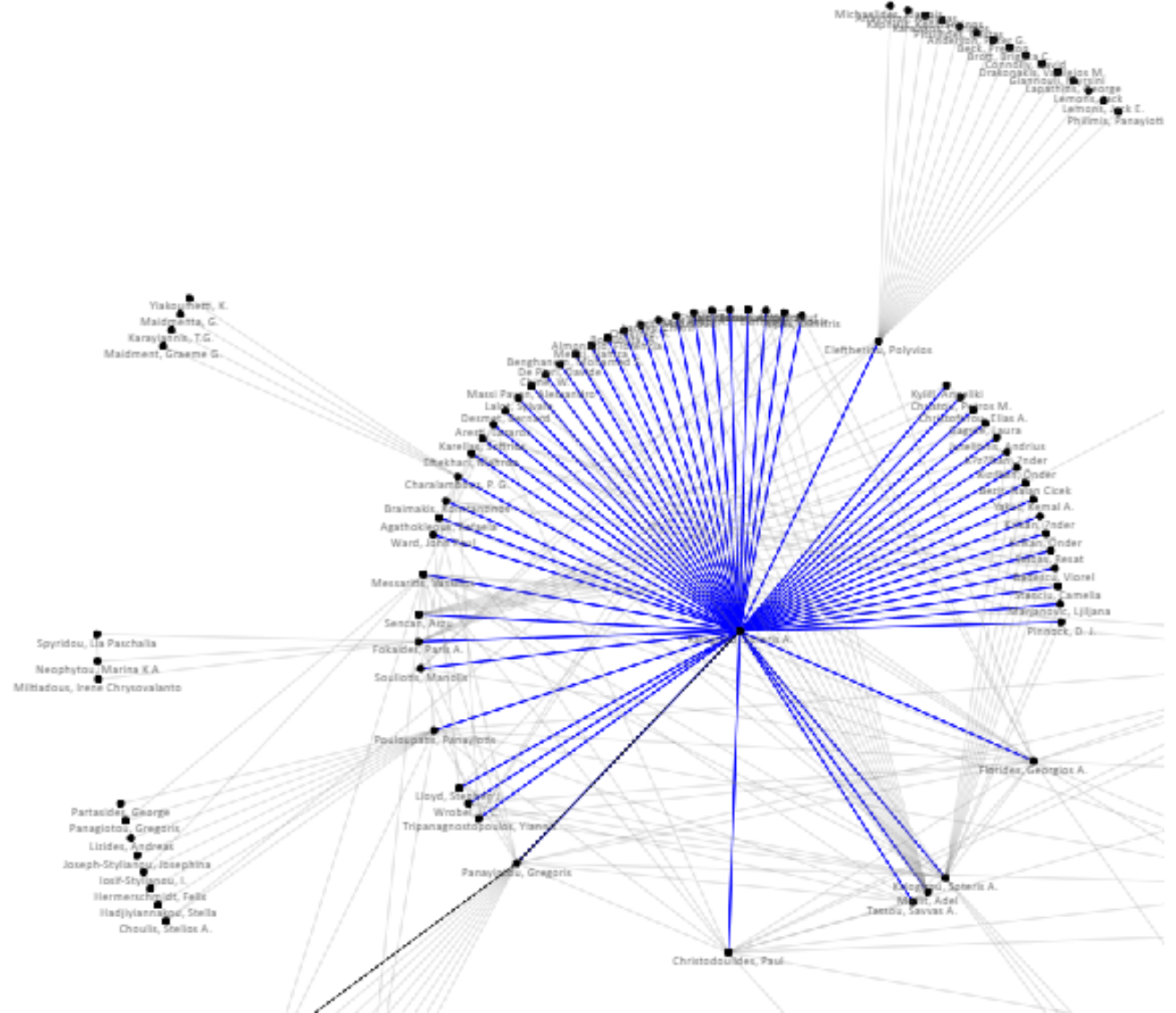


Panayiotou, Gregoris
Department: Department of Mechanical Engineering and Materials Science and Engineering

SHARE

Research Facets

- Co-authored publications: 11



Dspace-CRIS use cases: statistics

Researcher Profile Statistics: Kalogirou, Soteris A.

From: ever To: now Change date range

View Count Download Count Item View Count Item Download Count

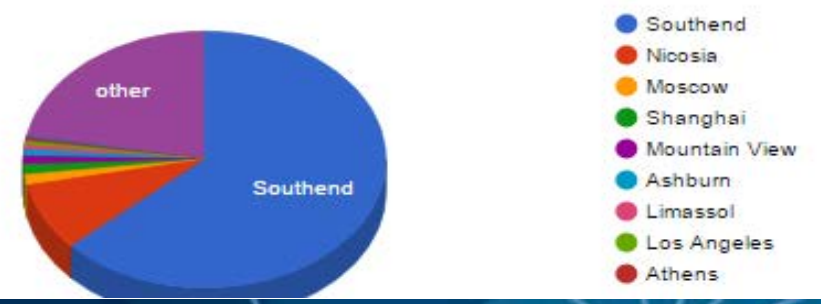
RSS Feed Email Alert

Geo Map




Region Country City Time

Save as a PNG Save as a JPEG




DSpace-CRIS use cases: a department

Department of Mechanical Engineering and Materials Science and Engineering

 View Statistics

 Email Alert

 RSS Feed

Informations

Publications

Peoples

OrgUnit's Researchers publications (Dept/Workgroup Publication)

Show/Hide filters ▾

Results 1-20 of 350 (Search time: 0.001 seconds).

1 2 3 4 5 6 7 8 9 10 →

Refman EndNote Bibtex RefWorks Send via email

<input type="checkbox"/>	Issue Date	Title	Author(s)
<input type="checkbox"/>	1 2012	2-(2,3,4,5,6-Pentafluorophenyl)-1H-benzo[d]imidazole, a fluorine-rich building block for the preparation of conjugated polymer donors for organic solar cell applications	Chochos, Christos L.  ; Choulis, Stelios A.  ; Ioannou, Theodosia A.  ; Ioannidou, Heraklidia A.  ; Economopoulos, Solon P.  ; Koutentis, Panayiotis A.  ; Itskos, Grigorios  ; Neophytou, Marios 
<input type="checkbox"/>	2 14-Mar-2015	4H-1,2,6-Thiadiazin-4-one-containing small molecule donors and additive effects on their performance in solution-processed organic solar cells	Hermerschmidt, Felix  ; Kalogirou, Andreas  ; Min, Jie  ; Zissimou, Georgia A.  ; Tuladhar, Sachetan M.  ; Ameri, Tayebbeh  ; Faber, Hendrik A.  ; Itskos, Grigorios  ; Choulis, Stelios A.  ; Anthopoulos, Thomas D.  ; Bradley, Donal D.C.  ; Nelson, Jenny M.  ; Brabec, Christoph J.  ; Koutentis, Panayiotis A. 
<input type="checkbox"/>	3 2012	A detailed thermal model of a parabolic trough collector receiver	Kalogirou, Soteris A. 

The screenshot displays a web interface for a researcher's profile. A modal window titled "Claim Researcher Page" is centered on the screen. The modal contains the following text and elements:

- Title:** Claim Researcher Page
- Instruction:** Check the encrypted string of this email, put the correct string in the box below and click "Go" to validate the email and claim this profile.
- Email:** s o t e ***** @ ***** c . c y
- Form:** A text input field with a green "Go" button to its right.
- Section:** Login via ORCID to claim this profile:
- Button:** A button labeled "ORCID Login" with the ORCID logo (a green circle with "iD" in white).
- Close:** A "Close" button at the bottom right of the modal.

The background interface shows the following details:

- Header:** Logos for "KTISIΣ" (Institutional Repository of the Technological Center) and "Τεχνολογικό" (Technological).
- Navigation:** Home, Communities & Collections, Research Out.
- User Options:** Language dropdown, Sign on to dropdown.
- Profile Information:** Ktis is at Cyprus University of Technology, Kalogirou, Soteris A.
- Profile Tabs:** Profile, Bibliometrics, Publication.
- Profile Content:** A photo of Soteris A. Kalogirou, a man with a mustache wearing a light blue shirt. Below the photo, the text reads: Full Name Kalogirou, Soteris A. Greek Name Καλογήρου, Σωτήρης.
- Footer:** Email Alert, RSS Feed, and Claim profile buttons.

Preferred name



Show archived

ORCID ID

sandbox.orcid.org/0000-0002-9421-192X

View public version

From	Subject	Date	
▼ DSpace-CRIS Demo WebSite	Your ORCID Record was amended	2016-02-19	<input type="checkbox"/>

DSpace-CRIS Demo WebSite has updated items in the Work section of your record.

Preferred name

Biography



▼ Education (0)

+ Add education | ⌵ Sort

You haven't added any education, [add some now](#)

▼ Employment (0)

+ Add employment | ⌵ Sort

You haven't added any employment, [add some now](#)

▼ Funding (0)

+ Add funding | ⌵ Sort

You haven't added any funding, [add some now](#)

▼ Works (1)

+ Add works | ⌵ Sort

Test Article for ORCID



Sample journal
2015-01-01 | other
SOURCE-WORK-ID: 65
URL: <http://demo-dspace-cris.cineca.it/handle/123456789/41>

Source: DSpace-CRIS Demo WebSite

Preferred source



Get a QR Code for your iD

Also known as
DSpace-CRIS, Researcher

Country

Keywords

Websites

Emails
researcher.dspacecris@mailinator.com

Import publications from ORCID

▼ Search for identifier

Fill in publication identifiers (DOI is preferable) and then press "Search process."

PubMed ID: PubMed SCOPUS
e.g. 20524090

DOI (Digital Object Identifier) : PubMed SCOPUS
e.g. 10.1021/ac0354342

SCOPUS ID: SCOPUS™
e.g. 2-s2.0-0000000117

WOS ID: WEB OF SCIENCE
e.g. WOS:000270372400005

ORCID iD: iD
e.g. 0000-0002-9029-1854 0000-0002-9029-1854

arXiv ID: arXiv.org
e.g. arXiv:1302.1497

Cinii NAID: Cinii
e.g. 110004744915

Bollini, A.

2006

[See details & import the record](#)



Guia de instalação DSpace-CRIS

Lucas Ângelo da Silveira, Milton Shintaku, Andrea Bollini

2016

[See details & import the record](#)



SCOPUS™

Publication metadata in CERIF: Inspiration by FRBR

Dvořák, J., Drobíková, B., Bollini, A.

2014

[See details & import the record](#)



SCOPUS™

DSpace-CRIS@HKU: Achieving visibility with a CERIF compliant open source system

Palmer, D.T., Bollini, A., Mornati, S., Mennielli, M.

2014

[See details & import the record](#)

DSpace-CRIS: interoperability

- Save your researcher's time and provide records from ORCID, PubMed, PubMed Europe, Scopus, WebOfScience, ArXiv, CrossRef and more... also as automatic feeds
- Import information from master legacy systems such as HR, export information to your data warehouse or your analytics solution, integrate your DSpace-CRIS with the institutional Identity Management system to control authentication and authorization, and so on...
- Import bibliometric information automatically from Scopus and Web of Science or from any other sources using spreadsheets

DSpace-CRIS use cases: identifiers and links

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/13>

Title: Example of XLS to setup CRIS data model

Authors: [Bollini, Andrea](#)

person(s)

Issue Date: 2016

Project: [Gamma ray burst](#)

project(s)

Related Publication: [Research Data sample item](#)

publication(s)

Conference: [Conference on High Energy](#)

event(s)

Abstract: This is the sample data model configuration script for org.dspace.app.cris.batch.StartupMeta dataCo

URI: <http://hdl.handle.net/123456789/13>

Appears in Collections: [Datasets](#)

Show full item record

SCOPUS™ Citations
10
checked on Nov 8, 2016

WEB OF SCIENCE™ Citations
45
checked on Nov 8, 2016

Title: DSpace-CRIS 5 Technical documentation

Authors: [Bollini, Andrea](#)
[Pascarelli, Luigi Andrea](#)

Issue Date: 2016

Project: DSpace-CRIS Open Source: CRIS made easy with DSpace

- Related Dataset:
- [Example of CSV to import items into repository](#)
 - [Example of XLS to import organizations into repository](#)
 - [Example of XLS to import projects into repository](#)
 - [Example of XLS to import researchers into repository](#)
 - [Example of XLS to import journals into repository](#)
 - [Example of XLS to import events into repository](#)
 - [Example of XLS to setup CRIS data model](#)

back link



DSpace-CRIS use cases: Research Data

DSpace-CRIS DEMO / Research Output / Datasets

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/31>

Title: Free World Cities Database

Authors: [Pascarelli L.A](#)

Issue Date: 2016

Publisher: MaxMind

Description: Includes city, region, country, latitude and longitude. This product doesn't contain any IP addresses. It's simply a listing of all the cities in the world. For IP to city mappings, see our MaxMind City product.

URI: <https://www.maxmind.com/en/free-world-cities-database>
<http://hdl.handle.net/123456789/31>

Appears in [Datasets](#)

Collections:

Page view(s)
341
Last Week: 11 Last month:
checked on Apr 12, 2017

Download(s)
352
checked on Apr 12, 2017

Google ScholarTM
Check

Files in This Item:

File	Description	Size	Format
worldcitiespop.csv	City and country by MaxMind	147.6 MB	Tabular Data

[Show full item record](#)

Explore online **View/Open**

CKAN Add-On Module: preview tabular & geospatial data

Paginated and filterable

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	Vilaflor	El Somb...	Cl Santa...	alojamie...
-16.662599	28.1216...	turismo	Vilaflor	El Nogal	Cm Real...	alojamie...
-16.636974	28.1593...	turismo	Vilaflor	Tio Paul...	Pz La Igl...	alojamie...
-16.636297	28.1585...	turismo	Vilaflor	Los Gira...	Cl Dolor...	alojamie...
-16.66551	28.1187...	turismo	Vilaflor	Los F...	Cm C...	alojamie...
-16.666047	28.116...	turismo	Vilaflor	Los F...	Cm C...	alojamie...
-16.636497	28.157...	turismo	Vilaflor	Los F...	Cm C...	alojamie...
-16.366122	28.512...	turismo	Adeje	Albatros	Av Jable ...	alojamie..
-16.35427	28.496...	turismo	Arona	Parque Albatros	Lg Costa...	alojamie..
-16.3502...	28.525...	turismo	San Miguel	Parque Albatros	Ur Golf d...	alojamie..
-16.425668	28.502...	turismo	San Miguel	Parque Albatros	Ur Golf d...	alojamie..
-16.300875	28.408...	turismo	San Miguel	Parque Albatros	Ur Golf d...	alojamie..

Grid Graph Map 3 records << 1 - 3 >> albatros Go » Filters

Filters

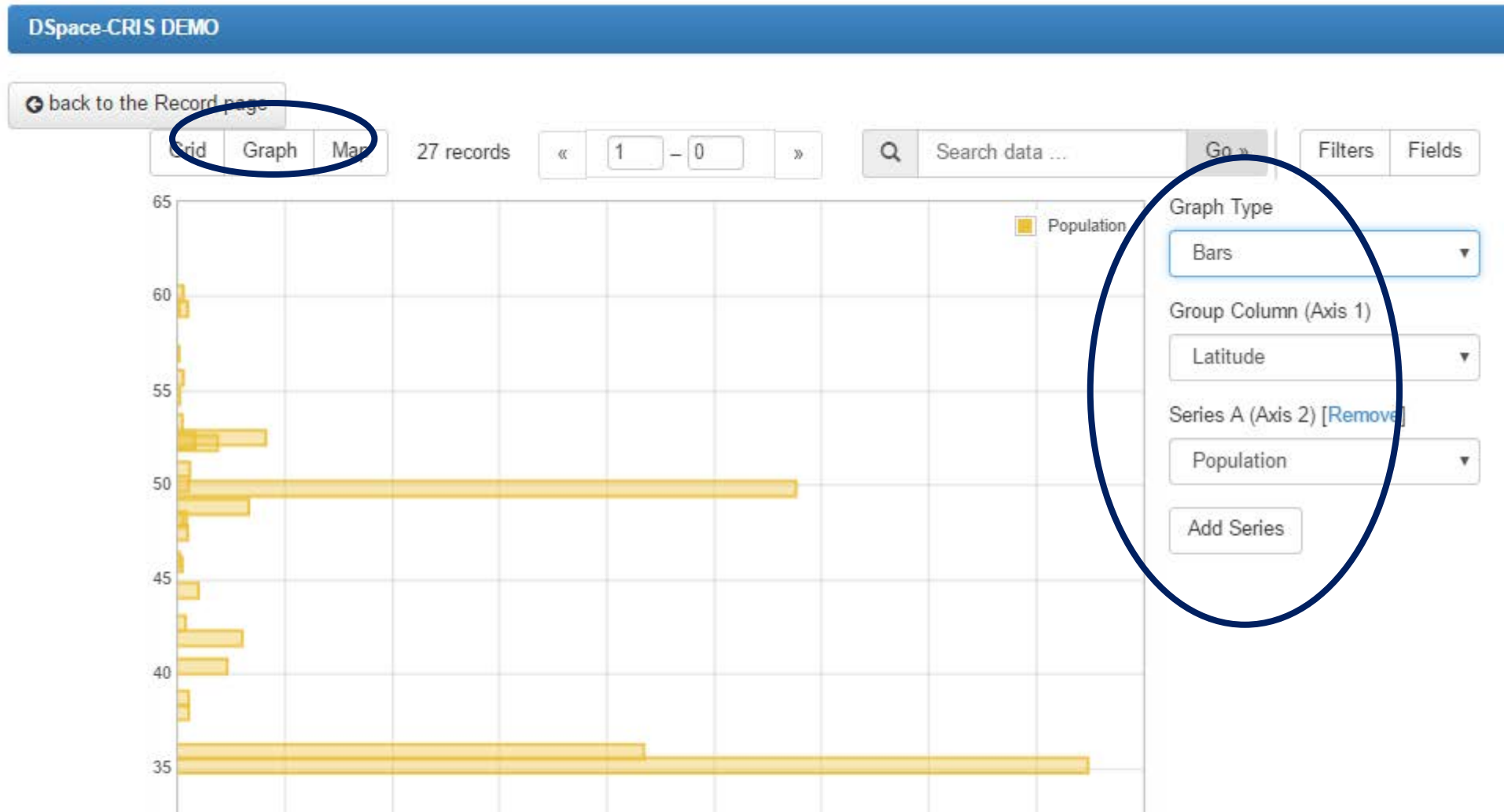
Field
lon

Add



CKAN Add-On Module: preview tabular & geospatial data

Graph visualization



CKAN Add-On Module: preview tabular & geospatial data

Interactive map visualization

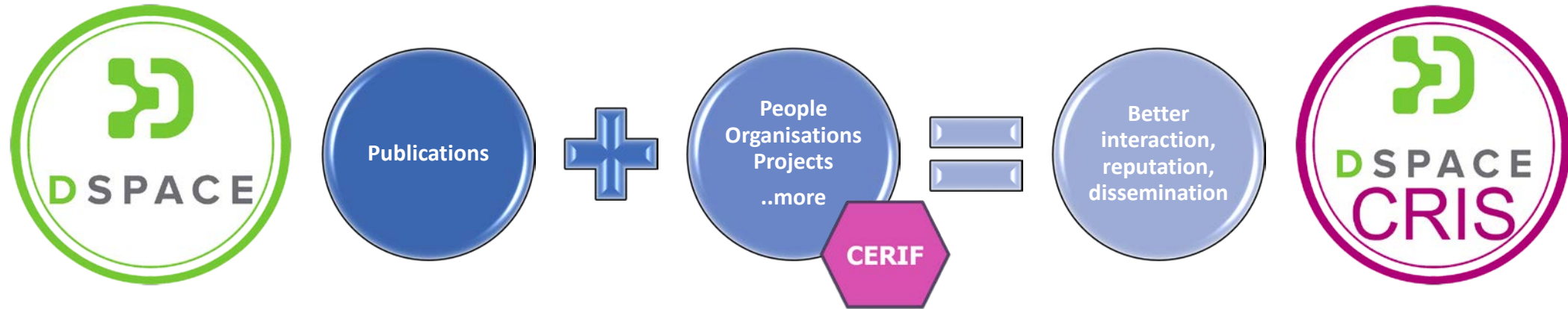
Grid Graph **Map** 639 records << 1 - 100 >> Search data ... Go » Filters

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				
-16.3502...	28.5253...	turismo				
-16.425668	28.5024...	turismo				
-16.300875	28.1085...	turismo				

Grid Graph Map 639 records << 1 - 100 >> Search data ... Go » Filters

Latitude / Longitude fields
 GeoJSON field
 Latitude field: lat
 Longitude field: lon
 Update
 Auto zoom to features
 Cluster markers

DSpace-CRIS in a nutshell



Versions 5 & 6 available on GitHub

Many DSpace-CRIS
installations
worldwide



The only free 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/DSPACE+CRIS/DSpace-CRIS+Home>

Conclusions

Make your research FAIR
with DSpace-CRIS!



F
indable



A
ccessible



I
nteroperable



R
eusable



Thanks for your attention!

www.4science.it

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skype: susanna.mornati

linkedin: susannamornati

orcid: 0000-0001-9931-3637

Where to find us next?

OR 2018
Bozeman MT
USA
4-7 June

CRIS 2018
Umea
Sweden
13-16 June

DSpace-CRIS
Workshop
and User Group
Meeting
Umea, Sweden
13 June

And more
to come!

German DSpace
User Group
Meeting
Berlin
Sept 2018

