

DSpace-CRIS 7

Praxistreffen – 01.04.2022

DSpace - CRIS 7 in a nutshell

- Free and open-source extension of DSpace7 (latest release is 2022.01.00 - feb 28th - aligned with DSpace 7.2)
- Fully embraces Configurable Entities
- enabled out-of-the-box with a richer data model based on the OpenAIRE information space and CERIF (Publication, Person, OrgUnit,...)
- Enables real CRIS / RIMS processes and use cases, beyond simple data storage
- Optimized and production ready

DSpace - CRIS 7 in a nutshell

Enriching the new DSpace 7 entities, DSpace-CRIS additionally provides:

- **Structured Metadata:** ternary relationships (e.g. publicationauthor-affiliation) and nested metadata (authors' affiliations, roles/ qualifications, etc.)
- **Enhanced Security:** not all entity types have the same security needs! Security is based on context and is granular at metadata level
- **Process Management:** data changes follow different rules and decentralized management, profiles can be self-managed, projects can change status, etc.
- **Assured Performance:** based on a proven, battle-tested approach, on hundreds of production installations for years, to manage relationships: real CRIS / RIMS systems are huge and data are deeply interconnected

Public interface

- Configurable sections (explore):
browsing, advanced search, faceting, listing, etc
- Configurable layout (tabs, boxes, custom field rendering) via REST API and xls files
- Interlinked navigation: inverse relations, links to other entities
- Metrics visualization (Scopus citations, WOS citations, Scopus h-index, Altmetrics, ...)
- Advanced and extensible statistics visualization (with charts, aggregated views, etc.)

Public interface

Explore sections, browse and search can be customized

Browse

Department

Author

Title

Type

Date issued

Subject

Search Research Outputs

All AND

All AND

All

Recent Additions

[Publication](#)
Test Publication 2
(2021-03) Author

[Publication](#)

Most viewed

[Publication](#)
Regional Portal FVG: Effective Interoperability
Trough DSpace-CRIS and Open Standards
(2019) Piščanc J, Trampus R, Bolini, Andrea
© 2017 The Authors. Friuli-VeneziaGiulia (FVG) Regional



Search the repository ...

Filters

Author

Editor

Organization

Subject

Funding

Publications Search Results

Now showing 1 - 10 of 94

[Publication](#)
test hide research profile
(2020) dvdr

[Publication](#)
Test publication for openaire
(2020)

[Publication](#)
Another test publication for OpenAIDE



Search the repository ...

Filters

Subject

Item Type

Researcher

Organizations

Projects Search Results

Now showing 1 - 10 of 12

[Funding](#)
Institutions and Metaphysics of Cosmology in the Epistemic Networks of Seventeenth-Century Europe

[Funding](#)
Regulation of intestinal homeostasis and epithelial barrier by LPA

[Funding](#)

Public interface

Repository content can be accessed in many ways

is [Research Outputs](#) [Projects](#) [People](#) [Statistics](#) ▾

Search



Research outputs

94



Projects

12



People

36

Public interface

Home page content is configurable

DSpace-CRIS 7

DSpace-CRIS is the first free and open-source extension of DSpace for Research Data and Information Management ever developed.


DSpace-CRIS has the institutional repository as its core component, providing high visibility online of the collected information and objects. DSpace-CRIS broadens DSpace functionality and expands its data model while remaining aligned with its code base.


DSpace-CRIS adopts and ensures compliance with international standards and practices to facilitate interoperability, data transfer and sharing. Key features:


- Full ORCID v3 integration (push/pull information)
- Integration with dozen external data sources, including commercial ones, to retrieve bibliographic and bibliometric data
- Support for decentralized management, self-service researcher profile management and digital workflows
- Aligned to the latest OpenAIRE Guidelines for Literature Repositories, Data Archives and CRIS Managers
- Data quality tests ensure that your information is always complete and accurate

Join the international community of leading institutions using DSpace-CRIS.

Search the repository ...

 Research outputs
97

 Projects
12

 People
36



Recent Additions

Publication

Analysis-Ready Data from Hyperspectral Sensors—The Design of the EnMAP CARD4L-SR Data Product

(2021) Martin Bachmann ; Kevin Alonso

Today, the ground segments of the Landsat and Sentinel missions provide a wealth of well-calibrated, characterized datasets

  1



Most viewed

Publication

Regional Portal FVG: Effective Interoperability Trough DSpace-CRIS and Open Standards

(2019) Piščanc J. ; Trampus R. ;

© 2017 The Authors. Friuli-Venezia Giulia (FVG) Regional Scientific System includes three Public Research Institutions, three

Scopus® Citations 1  834  1

Person

Public interface

Configurable Layout and Security for each Entity

The road (and the roadmap) for building Trusted Digital Repositories within an Interuniversity Consortium

Date Issued
Author(s)

2018
Cortese, Claudio  4Science 
Bollini, Andrea   4Science 

Export 

Views

6 

Acquisition Date
Jan 31, 2022

google-scholar
Check

Downloads
Downloads

Home • CRIS • Person • Bollini, Andrea

Export 

Bollini, Andrea



Preferred name
Main Affiliation
Web Site

Bollini, Andrea
4Science 
<https://www.linkedin.com/in/andreabollini/>
<https://github.com/abollini>
andrea.bollini@4science.it
0000-0003-0864-8867 

Email
ORCID

Research outputs Projects Metrics Other

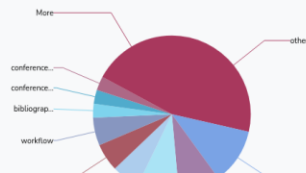
Research Output

Visualization by Type

Visualization by Date

Visualization Demo LTR

Visualization Demo RTL




Public interface



Items can be exported in several formats

Home • CRIS • Person • Bollini, Andrea

Export ...

Bollini, Andrea

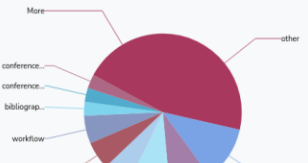


Preferred name Bollini, Andrea
Main Affiliation 4Science 
Web Site <https://www.linkedin.com/in/andreabollini/>
<https://github.com/abollini>
Email andrea.bollini@4science.it
ORCID [0000-0003-0864-8867](https://orcid.org/0000-0003-0864-8867) 

Research outputs Projects Metrics Other


Research Output

Visualization by Type Visualization by Date Visualization Demo LTR Visualization Demo RTL



More
other
conference...
bibliogr...
workflow

person (9).pdf 46,52%



Bollini, Andrea
CRIS at 4Science

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Via
E-mail andrea.bollini@4science.it
ORCID [0000-0003-0864-8867](https://orcid.org/0000-0003-0864-8867)

Affiliations
4Science

Education
PhD in Information Systems, University of Turin, 2014

Publications
Bollini, Andrea, 2024, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 36, no. 1, pp. 1-15.
Bollini, Andrea, 2023, "The Impact of Digital Transformation on Business Process Management", *Journal of Business Process Management*, vol. 35, no. 1, pp. 1-15.
Bollini, Andrea, 2022, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 34, no. 1, pp. 1-15.
Bollini, Andrea, 2021, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 33, no. 1, pp. 1-15.
Bollini, Andrea, 2020, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 32, no. 1, pp. 1-15.
Bollini, Andrea, 2019, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 31, no. 1, pp. 1-15.
Bollini, Andrea, 2018, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 30, no. 1, pp. 1-15.
Bollini, Andrea, 2017, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 29, no. 1, pp. 1-15.
Bollini, Andrea, 2016, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 28, no. 1, pp. 1-15.
Bollini, Andrea, 2015, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 27, no. 1, pp. 1-15.
Bollini, Andrea, 2014, "The Role of Digital Transformation in Business Process Management", *Journal of Business Process Management*, vol. 26, no. 1, pp. 1-15.

Public interface

Interlinked navigation

Home • CRIS • Person • Bollini, Andrea

Bollini, Andrea

Export ⋮



Preferred name
Main Affiliation
Web Site

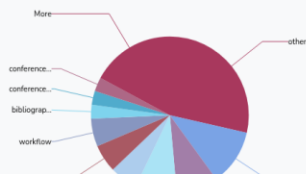
Bollini, Andrea
4Science [🌐](#)
<https://www.linkedin.com/in/andreabollini/>
<https://github.com/abollini>
andrea.bollini@4science.it
0000-0003-0864-8867

Email
ORCID

Research outputs Projects Metrics Other

Research Output

Visualization by Type Visualization by Date Visualization Demo LTR Visualization Demo RTL



4Science

4SCIENCE

Country
City
Description

Director Valenti, Cesare
Parent Organisation ITWay
Founding Date 2015

IT
City Milan
Description 4Science was established in 2015 to support universities, research and cultural institutes all around the world in managing and realizing digital projects. We guarantee full compliance with methodological and scientific international standards and we strongly support open source, open standards and interoperability protocols. The 4S

Export ⋮



Public interface

Metrics visualization

Research outputs Projects Metrics Other

Scopus® H-Index

2

Last Week 1 Last Month 1

Acquisition Date
Apr 16, 2021

Scopus® Coauthor

23

Last Week 22 Last Month 21

Acquisition Date
Apr 16, 2021

Scopus® Cited By

30

Last Week 25 Last Month 30

Acquisition Date
Apr 16, 2021

Scopus® Citations

30

Last Week 30 Last Month 30

Acquisition Date
Apr 16, 2021

Scopus® Documents

6

Last Week 5 Last Month 4

Acquisition Date
Apr 16, 2021

Publication

Non-viral COVID-19 vaccine delivery systems

(2020-12-10) Cortese, Claudio ; Bollini, Andrea ; Lombardi, Corrado 

Scopus® Citations 2



Non-viral COVID-19 vaccine delivery systems

Journal
Date Issued
Author(s)
Editor(s)
DOI

Adv Drug Deliv Rev
2020-12-10
Cortese, Claudio  4Science 
Bollini, Andrea  4Science 
Lombardi, Corrado  4Science 
10.1016/j.addr.2020.12.008

Scopus® citations

2

Acquisition Date
Apr 16, 2021

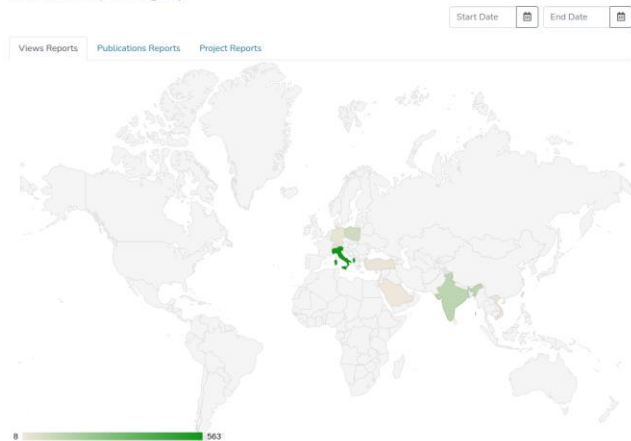
altmetric



Public interface

Advanced and extensible statistics visualization

Statistics by Category

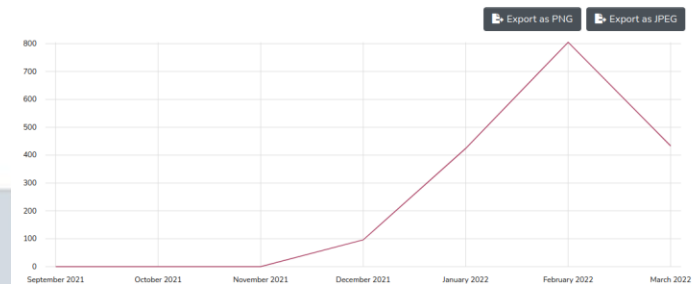


Reports

Total Visits Total Visits Per Month Top City Views

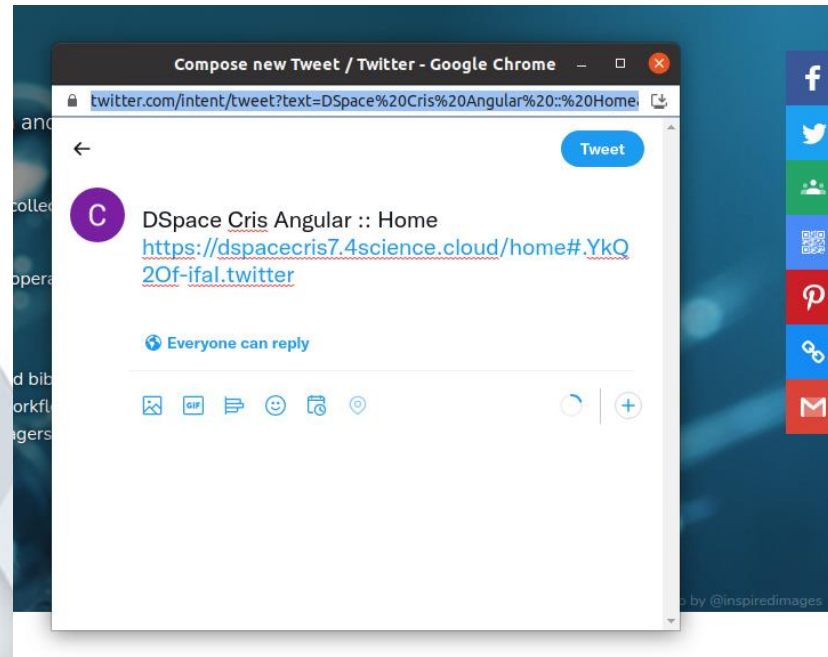
Export Excel Export CSV

city	views
Tirana	474
Parma	115
Savigliano	114
Ahmedabad	96
Other	87



Public interface

Social share feature (via AddThis)



Researcher Profile

Update Profile

Researcher Profile

Researcher profile associated

Status: **PUBLIC**

[+ Create new](#) [View](#) [Delete](#)

Famous, Researcher



Preferred name
Alternative Name
Main Affiliation
Web Site
ORCID

Famous, Researcher
Bollini, Andrea
4Science
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0000-0002-1622-9796

Can be created:

- From scratch
- By claiming an existing Entity (Person)
- Following suggestion(s) from DSpace-CRIS7 once logged in

Submission

- Manual, with fully customizable collection based forms structure
- Live Import – integration with a variety of data sources
- Integration with the Grobid machine vision library to automatically extract metadata on PDF upload

Submission

Manual Submission

+ ▾

- Equipment
- Event
- Funding
- Journal
- Organizational Unit
- Patent

E>

⬇️ Drag files to attach them to the item, or [browse](#)

Collection **Publication** ▾ Add more +

Publication basic information ⓘ ^

Identifiers

DOI ▾ Identifiers ⊞

If the item has any identification numbers or codes associated with it, please enter the types and the actual numbers or codes.

[+ Add more](#)

Title *

Title

Enter the main title of the item.

Other Titles

Submission

Live Import – integration with a variety of data sources

Import a publication from an external source

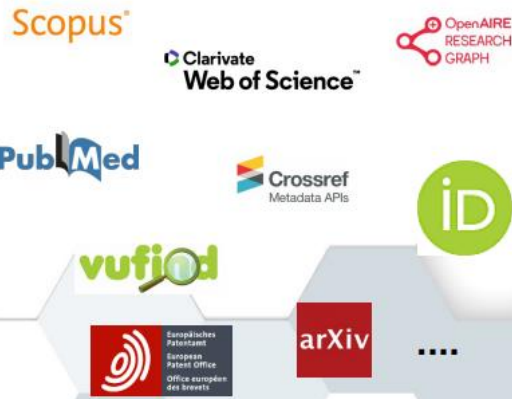
Search the external source Pubmed ▾ Search

Your search returned no results.

Pubmed
arXiv
Scopus

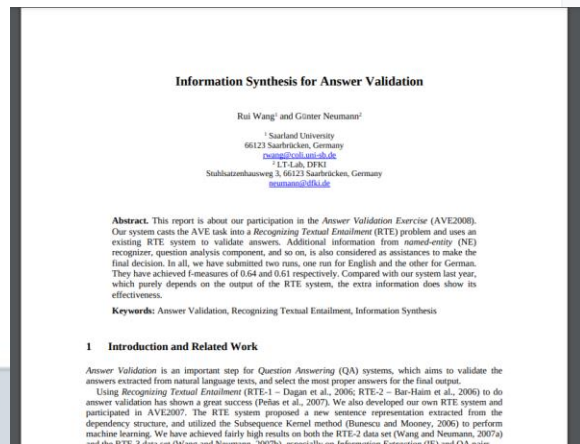
[← Back to MyDSpace](#)

Large set of connectors for bibliographic and bibliometric databases (both commercial and open)



Submission

Integration with Grobid machine vision library



Upload files

Here you will find all the files currently in the item. You can update the file metadata and access conditions or [upload additional files](#)

Wang_paperAVE2008.pdf (100.76 KB)
Wang_paperAVE2008.pdf

No Thumbnail Available

Title *

Information Synthesis for Answer Validation

Enter the main title of the item.

Other Titles

Other Titles

If the item has any alternative titles, please enter them here.

[+ Add more](#)

Date of Issue *

2009 month day

Please give the date of previous publication or public distribution. You can leave out the day and/or month.

Authors

Wang, Rui ✕ Neumann, Günter ✕ [+ Add more](#)

Editors

Items edit and management

- Users can have controlled permission to manage “their” objects (context based: profiles, publications, projects, etc.)
- Edit permissions can be limited to specific metadata
- Users can request changes to records that they are not allowed to edit directly. Change requests are highlighted in the workflow

Edit Item – Archived item is changed

Export Statistics Subscribe ...

Sierra Sur de Oaxaca

- Options
- Request a correction
- Edit all the details
- Audit
- Administer

Drop files to attach them to the item, or browse

Collection Publication Add more +

Publication basic information

Identifiers

DOI	10.24875/CIRU.21000697	
<small>If the item has any identification numbers or codes associated with it, please enter the types and the actual numbers or codes.</small>		
Pubmed ID	35350065	
<small>If the item has any identification numbers or codes associated with it, please enter the types and the actual numbers or codes.</small>		
URI	https://dspacecris7.4science.cloud/handle/123456789/322	
<small>If the item has any identification numbers or codes associated with it, please enter the types and the actual numbers or codes.</small>		

+ Add more

Title *

Emergencia por COVID-19 en la Sierra Sur de Oaxaca y la agenda 2030 del desarrollo sostenible.

Enter the main title of the item.

Other Titles

Other Titles

If the item has any alternative titles, please enter them here.

Edit – correction request

Correction request – Workflow is engaged

The screenshot displays a user interface for a digital library. On the left, a navigation menu includes buttons for 'Export', 'Statistics', 'Subscribe', and a three-dot menu. Below these, a dropdown menu is open, listing options: 'Options', 'Request a correction', 'Edit all the details', 'Audit', and 'Administer'. The main content area shows a record for 'test embargo 111' with the following details: '(2023)', 'No Abstract', and 'Is a request of correction'. A red arrow points to the 'Is a request of correction' status. Below the status, the 'Submitter' is identified as 'Demo Site Administrator'. A 'Claim' button is visible at the bottom of the record details.

Export Statistics Subscribe ...

Options
Request a correction
Edit all the details
Audit
Administer

Waiting for controller
Item
test embargo 111
(2023)
No Abstract
Is a request of correction
Submitter : Demo Site Administrator
Claim

Edit – correction request

The screenshot shows the DSpace-CRIS interface. At the top, there are navigation links: Home, CRIS, Publication, and DSpace-CRIS@HKU: Achieving Visibility with a CERIF Compliant Open Source System. Below this, there is a 'Details' section for the record. The title is 'DSpace-CRIS@HKU: Achieving Visibility with a CERIF Compliant Open Source System'. A dropdown menu is open, showing options: Options, Export, and Request a correction. Below the title, there is a search bar and a 'Show' dropdown set to 'All tasks'. There are also filter sections for 'Status' and 'Type'. The main content area shows a list of records, with the first one highlighted. The record title is 'An Impaired Inflammatory and Innate Immune Resp...' and it has a status of 'Waiting for controller' and a type of 'Publication'. A red arrow points to the 'Request a correction' button in the dropdown menu.

Users can request changes to records that they are not allowed to edit directly. Change requests are highlighted in the workflow

The screenshot shows the 'Corrections' section of the DSpace-CRIS interface. It displays a table of changes related to the item's metadata. The table has three columns: Metadata, Previous value, and Current value. The first row shows 'Type (dc.type)' with a previous value of 'Review' and a current value of '-'. The second row shows 'Date of Issue (dc.date.issued)' with a previous value of '2021' and a current value of '2021-02'. Below the table, there is a section for 'Publication basic information' and 'Identifiers', with a DOI of '10.14348/molcells.2021.0068'. A red arrow points to the 'Request a correction' button in the dropdown menu from the previous screenshot.

Metadata	Previous value	Current value
Type (dc.type)	Review	-
Date of Issue (dc.date.issued)	2021	2021-02

Data quality

- OpenAIRE integration with the Notification Broker
- Publication suggestions from OpenAIRE and ORCID
- Duplicate detection
- Automatic import from Scopus and WOS
- Correction request flow
- Advanced import and export capabilities (from/to xls or DBMS)

Data quality

OpenAIRE Notification Broker

Home / OpenAIRE Broker

OpenAIRE Broker

Below you can see all the topics received from the subscriptions to OpenAIRE.

Current Topics

Now showing 1 - 6 of 6

Topic	Last Event	Actions
ENRICH/MORE/PID	2020/10/09 10:11 UTC	
ENRICH/MISSING/ABSTRACT	2020/10/08 16:14 UTC	
ENRICH/MISSING/SUBJECT/ACM	2020/09/21 17:51 UTC	
ENRICH/MISSING/PID	2020/10/01 07:36 UTC	
ENRICH/MISSING/PROJECT	2020/09/17 10:28 UTC	

Topic: ENRICH/MORE/PROJECT

Now showing 1 - 1 of 1

Trust	Publication	Project details	Actions
1.000	Analysis-Ready Data from Hyperspectral Sensors—The Design of the EnMAP CARD4L-SR Data Product	<p>OpenAIRE Suggested Project data</p> <p>Project title: EUFAR</p> <p>Acronym: EUFAR</p> <p>Code: 227159</p> <p>Funder: EC</p> <p>Funding program: INFRA</p> <p>Jurisdiction: EU</p> <p>No local record found </p>	<p> Import project and accept suggestion</p> <p> Ignore suggestion</p> <p> Reject suggestion</p>

[← Back to topics](#)

Data quality

Suggestions from OpenAIRE or ORCID


We found **1 publication** in the ORCID registry that seems to be related to your profile. Please [review the suggestions](#).

The screenshot shows a DSpace repository interface. At the top, there are navigation links: "Communities & Collections", "Research Outputs", "Projects", and "People". Below this is a breadcrumb trail: "Home > MyDSpace". A green notification banner states: "We found 33 publications in the OpenAIRE Graph that seems to be related to your profile. Please review the suggestions." Below the banner is a file upload area with a dashed border and the text "Drag & Drop your files here, or browse". To the right of the upload area are icons for adding and removing files. Below the upload area is a search bar with a dropdown menu set to "All repository" and a search button. To the left of the search bar is a "Show" dropdown menu set to "Your Submissions". Below the search bar is a "Bulk Export" button. Below the search bar is a "Filters" section with expandable categories: "Status", "Type", and "Date". Below the filters is a list of publications. The first publication is titled "Regional Portal FVG: effective interoperability through DSpace-CRIS and open standards" and is dated "(2017)". Below the title is a "View" button.

Missing records in the repository are automatically suggested to the researcher looking in the OpenAIRE Graph and their ORCID profile

Data quality

Duplicate Detection

Potential duplicates 1 

The system has identified some potential duplicates. Please carefully review the list and flag each occurrence with the appropriate choice or discard this submission.

Now showing 1 - 1 of 1

Publication
Regional Portal FVG: effective interoperability through DSpace-CRIS and open standards
(2017) Piščanc, Jordan Trampus, Romano Balbi, Luisa Mennielli, Michele Mornati, Susanna Pascarelli, Luigi Bollini, Andrea Friuli-VeneziaGiulia (FVG) "Regional Scientific System" includes three Public Research Institutions, three Universities, four International Instit.

« 1 »

Potential duplicates are detected during submission and workflow item review.

Data quality

Scopus and WOS Import

Via CLI command or
Processes web UI,
Pu

Create a new process

Script

import-publications

Parameters

--service

Add a parameter...

Cancel

Save

import-publications

Perform the creating of workspace item using external sources (i.e. Scopus, WebOfScience)

-s --service <value> the name of the external service to be queried ("scopus" or "wos")

-e --eperson <value> email of the eperson performing the import

Import and export

Collections and search results can be exported

The screenshot displays a repository search interface. On the left, a search bar is followed by a 'Search Results' section showing 'Now showing 1 - 10 of 171' and a list of results including 'Demo Site Administrator' and 'Organizational Unit'. An 'Export' dropdown menu is open, listing 'Journal', 'Organizational Unit', 'Patent', 'Person', 'Research Project', and 'Publication'. In the center, a modal dialog titled 'Item Export Process Launcher' is shown, containing the text 'Export all items of a particular entity type belonging to the current search.', an 'Entity Type' dropdown set to 'Publication', and a 'Format' dropdown set to 'publication-xls'. At the bottom of the dialog are 'Cancel' and 'Export' buttons. On the right, a search results list is partially visible with buttons for 'Statistics', 'Subscribe', and a three-dot menu. The three-dot menu is open, showing options: 'Options', 'Administer', 'Export', and 'Import items into collection'. Below the menu are 'By Title' and 'By Type' sorting options.

Import and export

Items can be imported in bulk mode

The screenshot displays a web interface for bulk import. On the left, a menu is open, showing options: Statistics, Subscribe, and a three-dot menu. The three-dot menu is expanded, listing: Options, Administer, Export, and Import items into collection. Below the menu, there are tabs for 'By Title' and 'By Type'. On the right, the 'Bulk import' section is visible. It includes a 'Collection' dropdown set to 'Equipment', a 'Source file' section with a 'Choose File' button and the text 'No file chosen', and an unchecked checkbox for 'Abort on first error'. At the bottom right of this section are 'Back' and 'Start import' buttons.

Customization

Some home page (and not) components can be customized



Edit CMS Metadata 'cris.cms.home-header'

English

Edit CMS Metadata 'cris.cms.footer'

English

Deutsch

Full ORCID v.3 integration

Login supported

  Log In ▾

Email address

Password

➔ Log in

or

➔ Log in with Shibboleth

➔ Log in with ORCID

New user? [Click here to register.](#)

[Have you forgotten your password?](#)

Full ORCID v.3 integration

Researchers can connect their profile to ORCID

Bollini, Andrea



Preferred name
Main Affiliation
Web Site

Bollini, Andrea
4Science 
<https://www.linkedin.com/in/andreabollini/>
<https://github.com/abollini>
andrea.bollini@4science.it
0000-0003-0864-8867 
Scopus Author ID
55484808800

Research outputs Projects Metrics **ORCID** Other


ORCID Authorizations

Granted authorizations

- Get your ORCID iD
- Read your information with visibility set to Trusted Parties
- Add/update your research activities
- Add/update other information about you

Missing authorizations

Great! This box is empty, so you have granted all access rights to use all functions offers by your institution.

 Disconnect from ORCID

Full ORCID v.3 integration

Researchers can manage ORCID settings and preferences

ORCID Synchronization settings

Enable 'Manual' Synchronization mode to disable batch synchronization, so you must send your data to ORCID Registry manually

Synchronization mode

Synchronization mode

Manual

Publication preferences

Disabled

All publications

Funding preferences

Disabled

All fundings

Profile preferences

Affiliation

Education

Biographical data

Identifiers





















[Update settings](#)

Full ORCID v.3 integration

Researchers can push profile information to ORCID registry

ORCID Registry Queue

Now showing 1 - 5 of 39

		Description		
		Color blindness (daltonism) in the light of genetic studies		
		COVID-19 vaccine research and development: ethical issues		
		Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine		
		COVID-19 vaccine development: What lessons can we learn from TB?		
		Daltonism and painting		

« 1 2 3 4 5 6 7 8 »

Full ORCID v.3 integration

Whenever appropriate, authenticated ORCID IDs are shown

Bollini, Andrea



Preferred name
Main Affiliation
Web Site

Email
ORCID
Scopus Author ID

Bollini, Andrea
4Science
<https://www.linkedin.com/in/andreabollini/>
<https://github.com/abollini>
andrea.bollini@4science.it
0000-0003-0864-8867
55484808800

Publication

DSpace Hibernate-Prototype

(2008-04-01) Bollini, Andrea ; Ninfo, Daniele

This article shows the reengineering of the persistence tier of the open source software DSpace, to introduce a lower coupling in its software layers. The prototype was made using design patterns and standards from J2EE world: Domain Store, Session Façade, Application Service, JPA were also introduced for a technological upgrade.

3

DSpace Hibernate-Prototype

Journal
Date Issued
Author(s)

LEO, Letteratura Elettronica Online
2008-04-01
Bollini, Andrea •
Ninfo, Daniele

Abstract

This article shows the reengineering of the persistence tier of the open source software DSpace, to introduce a lower coupling in its software layers. The prototype was made using design patterns and standards from J2EE world: Domain Store, Session Façade, Application Service, JPA were also introduced for a technological upgrade.

Subjects

[DSpace](#) [Hibernate](#) [reengineering](#) [JPA](#) [digital library](#) [design pattern](#)



DSpace-CRIS 7 Roadmap

<https://wiki.lyrasis.org/display/DSPACECRIS/Product+RoadMap>

Thank you for your attention

Corrado Lombardi, 4Science

corrado.lombardi@4science.com



[0000-0001-9999-4364](https://orcid.org/0000-0001-9999-4364)

