

Results from the "Enrich Local Data via the OpenAIRE Graph" Project: Bring Innovation to DSpace

[Andrea Bollini](#)¹, Susanna Mornati¹, Giuseppe Digilio¹, Jordan Piščanc², Michele Artini³, Claudio Atzori³

¹4Science, Italy; ²University of Trieste, Italy; ³ISTI-CNR, Italy

OR2021, 10th June 2021

OpenAIRE Open Innovation programme

The OpenAIRE Open Innovation Programme was launched to discover, support and fund **innovative ideas and implementations** of software in the Open Science domain.

<https://www.openaire.eu/open-innovation-in-openaire>



OpenAIRE Application boundaries & Open Call Topics

Data Exploitation Layer: OpenAIRE service portfolio



Data Curation and Integration Layer



Data sources Layer: Repository platforms for literature, datasets, software



Topic 3

Expand the OpenAIRE service portfolio

Topic 2

Enhance the quality of the OpenAIRE Graph

Topic 1

Next generation repository technologies

Data Curation and Integration Layer



Topic 2

Enhance the quality of the OpenAIRE Graph

4SCIENCE

Share your knowledge

OAIRE-ELD

Enrich Local Data via
the OpenAIRE Graph

Project goals

The project implements **two services for DSpace/DSpace-CRIS** to enhance local data with information in the OpenAIRE Research Graph.

→ **Data Correction:** to improve existing data

→ **Publication claim:** is focussed on identifying missing publications

Enrich Local Data via the OpenAIRE Graph

Phase 1: Solution Design

- Provided feedback on the
- * Notification broker service
- * OpenAIRE web services
- Produced the Implementation specification

Phase 2: Prototyping

- Implemented the proposed solution for DSpace and DSpace-CRIS
- Designed the call back mechanism

Phase 3: development and testing

- Improved the performance
- Ran a pilot project with the University of Trieste
- Was included out-of-the-box in DSpace-CRIS
- PRs created for DSpace

Data Correction

Data sources Layer: Repository platforms for literature, datasets, software



Confirm



OAI-PMH



Inference & Enrichment



Inform



OA Broker

[https://github.com/openaire/broker-commandline-client.](https://github.com/openaire/broker-commandline-client)





Home / OpenAIRE Broker

OpenAIRE Broker

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

Current Topics

Now showing 1 - 5 of 5



Topic	Last Event	Actions
ENRICH/MORE/PID	2021-01-21T12:33:53.935+0000	5384
ENRICH/MISSING/PID	2021-01-21T12:33:53.935+0000	4844
ENRICH/MISSING/ABSTRACT	2021-01-21T12:33:53.935+0000	53
ENRICH/MISSING/PROJECT	2021-01-21T12:33:53.935+0000	1
ENRICH/MORE/PROJECT	2021-01-21T12:33:53.935+0000	1



OpenAIRE Broker Suggestions

Below the list of all the suggestions, received from OpenAIRE, for the selected topic.

« Back to topics

Topic: ENRICH/MORE/PID

Now showing 5361 - 5364 of 5364



Trust	Publication	Details	Actions
0.375	Riferimenti bibliografici	PID Type: doi PID Value: 10.4000/books.res.4741	✓ Accept suggestion 🗑 Ignore suggestion 🚫 Reject suggestion
0.375	Note sugli autori	PID Type: doi PID Value: 10.14672/ada20181397189-193	✓ Accept suggestion 🗑 Ignore suggestion 🚫 Reject suggestion
0.375	Note sugli autori	PID Type: doi PID Value: 10.14672/ada20191586183-185	✓ Accept suggestion 🗑 Ignore suggestion 🚫 Reject suggestion

[Home](#) / OpenAIRE Broker Suggestions

OpenAIRE Broker Suggestions

Below the list of all the suggestions, received from OpenAIRE, for the selected topic.

[« Back to topics](#)

Topic: ENRICH/MISSING/PROJECT

Now showing 1 - 1 of 1



Trust	Publication	Project details	Actions
1.000	W.G. Sebalds babylonische Bibliothek. Kritik an einem heterotopischen Raum der Moderne	<p>OpenAIRE Suggested Project data</p> <p>Project title: Ästhetik, Intermedialität des Wissens in Literatur, Kunst und Wissenschaft</p> <p>Code: PDFMP1_137110 Funder: SNSF Funding program: Programmes Jurisdiction: CH</p> <hr/> <p>No local record found <input type="text"/></p>	<p><input checked="" type="checkbox"/> Import project and accept suggestion</p> <p><input type="checkbox"/> Ignore suggestion</p> <p><input type="checkbox"/> Reject suggestion</p>

Pilot feedback - Data Correction Service

“A great improvement for the BrokerService. Finally the suggested data in the place where I need them: directly in my Repository. The great integration helps the Repository Manager to quickly decide and enrich Repository data directly in the environment that is used to work and manage. It’s like an “all in one” solution.”

*Jordan Piščanc
Repository Manager of the University of Trieste*

Publication Claim

OpenAIRE Research Graph contains publications (and more research information) relevant for your institution

- new researchers joining your Institution contributed to the graph via their previous Institution
- your researchers may fail to submit to the Institutional repository but their publications come in the OpenAIRE graph via the publisher, funder or a domain community repository
- External coauthors already provided the information that you need

The product will constantly and automatically check the OpenAIRE graph looking for relevant data



We found 104 publications in the OpenAIRE Graph that seems to be related to your profile. Please [review the suggestions](#).

Drag & Drop your files here , or [browse](#)

+ New submission ▾



Search DSpace ▾

Search

Show

Your Submissions ▾

Now showing 1 - 10 of 25

Filters

Status +

Date +

Reset filters

Settings

Sort By

Workspace

Item

A machine learning evolutionary algorithm-based formula to assess tumor markers and predict lung cancer in cytologically negative pleural effusions

(2019-09-14) Alessandro De Stefano Gianni D'Angelo Stefano Elia Renato Massoud Claudio Cortese Franco Malignant pleural effusion is diagnostically challenging in presence of negative cytology. The assessment of tu



Workspace

Item

Influence of acute reduction of blood viscosity on endothelial function.

(2019-03-19) Antonio Cutruzzola Marilena Minieri Concetta Irace Claudio Carallo Claudio Cortese Agostino BACKGROUND The relationship between blood viscosity (BV) and endothelial function is rather complex. An



Suggestion for Claudio Cortese from the OpenAIRE Graph

Select / Deselect All (10)

✓ Approve & import Selected

⊘ Not mine Selected

Now showing 1 - 10 of 110



Total Score
100.00

Processi di trasformazione nel suburbio di Mediolanum tra tarda età repubblicana e media età imperiale. Il caso dell'area dell'Università Cattolica
CORTESE, CLAUDIO
Nell'area oggi occupata dall'Università Cattolica del Sacro Cuore di Milano a partire dal 1986 scavi di emergenza hanno messo in luce una porzione del suburbio occidentale di Mediolanum, e in particolare una realtà insediativa suburbana di età imperiale. Un'ampia area di tale insediamento è stata oggetto della presente ricerca che,

✓ Approve & import ⊘ Not mine 👁 See evidence

Total Score
100.00

Semantic Search and Browsing nell'ambito dei Beni Culturali
Cortese, Claudio
Negli ultimi anni, il mondo dei beni culturali si sta rivelando una delle aree più promettenti e stimolanti per quanto concerne la sperimentazione e la diffusione degli standard e delle tecnologie che rientrano nell'ambito del "Semantic Web". All'organizzazione dei dati secondo gli standard semantici si accompagna la necessità di

✓ Approve & import ⊘ Not mine 👁 See evidence

Total Score
100.00

MTHFR gene polymorphism, homocysteine and cardiovascular disease.
(2008-06-03) Corradino Motti ; Claudio Cortese
AbstractHomocysteine is an emerging new risk factor for cardiovascular disease. It is a thiol compound derived from methionine and involved in two main metabolic pathways: the cycle of activated methyl groups, requiring folate and vitamin B12 as cofactors, and the transsulfuration pathway to cystathionine and cysteine requiring

✓ Approve & import ⊘ Not mine 👁 See evidence

Total Score

Taking advantage of a side effect of isotretinoin.
(2004-03-02) Claudio Cortese ; Rosamaria Corona
Question: Do young adults who develop hypertriglyceridemia after isotretinoin therapy for acne have an inherited



Suggestions

Now showing 1 - 10 of 41

Researcher Name	Actions
Bollini, Andrea	Review suggestions
Cortese, Claudio	Review suggestions
Fazio, Riccardo	Review suggestions
Mornati, Susanna	Review suggestions
Surname, Firstname	Review suggestions
... another one	Review suggestions

Pilot feedback - Publication Claim Service

“The first real practical usage of the great potentiality of the OpenAIRE Research Graph that I’ve seen. The great thing is that also this service is directly integrated in my Repository. This will be a real ‘time saver’ for the Researchers: when they login to the Repository the Publication Claim Service will ‘suggest’ them new publications found in Research Graph ready to be automatically imported.”


*Jordan Piščanc
Repository Manager of the University of Trieste*

Summary

- ✓ The 2 product features have been implemented
- ✓ The [documentation website](#) is available and updated
- ✓ The source code is on GitHub ([REST](#), [Angular](#), [REST Contract](#))
- ✓ Automatic tests are in place for both the [backend](#) and the [frontend](#)
- ✓ A pilot installation has been performed with data from a [real repository](#) involving the owner Institution (University of Trieste)
- ✓ Acceptance Test Plan is available and was verified in the pilot instance

Thanks! Any questions?

Andrea Bollini <andrea.bollini@4science.it>

 <https://orcid.org/0000-0002-9029-1854>