



The Research Organization Registry (ROR) and CRIS Infrastructure: Current Examples and Future Possibilities

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About ROR

What is ROR?

ROR, the Research Organization Registry, is a global, community-led registry of open persistent identifiers for research organizations.

ROR is an established, trusted, widely adopted, no-cost service that is becoming a standard in scholarly communication and scholarly publishing.

Why ROR?

Only ROR offers a **free, open, easy, curated, community-led** solution that allows research organization metadata to travel freely between thousands of research systems.

Search and browse ROR records at
<https://ror.org/search>

Flemish Government

ORGANIZATION TYPES

Funder, Government

OTHER NAMES

Labels

Flämische Regierung (de)

Gouvernement flamand (fr)

Vlaamse Overheid (nl)

RELATIONSHIPS

Child Organizations

[Flanders Environment Agency](#)

[Departement Omgeving](#)

[Departement Economie, Wetenschap & Innovatie](#)

Some record data is not displayed in this view. [See JSON view for full record data](#)

Record last modified 2024-12-11. Is there an issue with the data on this record? [Suggest a change](#)

LOCATIONS

Brussels (GeoNames ID [2800866](#)), Belgium

WEBSITE

<http://www.flanders.be/en>

OTHER IDENTIFIERS

GRID [grid.453158.e](#)

ISNI [0000 0001 2174 3776](#)

Crossref Funder ID [501100002913](#)

Wikidata [Q1186029](#)

ROR currently includes over 115,000 research organizations from around the world.

All ROR metadata is CC0 and is freely available as JSON & CSV and via a REST API.

The problem ROR solves

Articles

1-10 of 2232 results for 'Virginia Tech' ←

☐ Select all Export selected citations [Edit search](#) ▾

☐  Restricted access Research article First published Mar 1, 2014

[A Digital Library for Recovery, Research, and Learning From April 4, 2011 to March 29, 2014](#)

Edward A. Fox, Christopher Andrews, Weiguo Fan, Jian Jiao, Ananya Kasraee, David A. Clark, et al.

Traumatology

[Preview abstract](#) ▾

☐  Restricted access Research article First published Sep 1, 2013

[Test Road Experiment on Imminent Warning Rear Lighting and Signal](#)

Walter W. Wierwille, Suzanne E. Lee, Maryanne C. DeHart, Michael Perel, et al.

Human Factors

[Preview abstract](#) ▾

Articles

1-10 of 2899 results for 'Virginia Polytechnic' ←

☐ Select all Export selected citations [Edit search](#) ▾

☐  Restricted access Research article First published Feb 1, 1997

[Reaction Spinning of Polymethylmethacrylate Fibers](#)

Siu Yuen Fok, Richard A. Mickles, Richard G. Griskey

Textile Research Journal

[Preview abstract](#) ▾

☐  Restricted access Research article First published Jan 1, 1997

[The Effects of the Safe-sun Program on Patrons' and Lifeguards' at Swimming Pools](#)

Richard A. Winnett, Bonnie L. Cleaveland, Deborah F. Tate, David N. Lom, et al.

Journal of Health Psychology

The problem ROR solves

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Richard A. Hunt, Ph.D.

ORCID

Name
Richard Hunt

Activities [Collapse all](#)

▼ Employment (2) [Sort](#)

Virginia Tech: Blacksburg, US

2021 to present | Associate Professor (Management)
Employment [Show less detail](#)

Organization identifiers
ROR: <https://ror.org/02smfhw86>
Virginia Tech: Blacksburg, US
<https://www.vt.edu/about/index.html>

Tianzi Wang

ORCID

Activities [Collapse all](#)

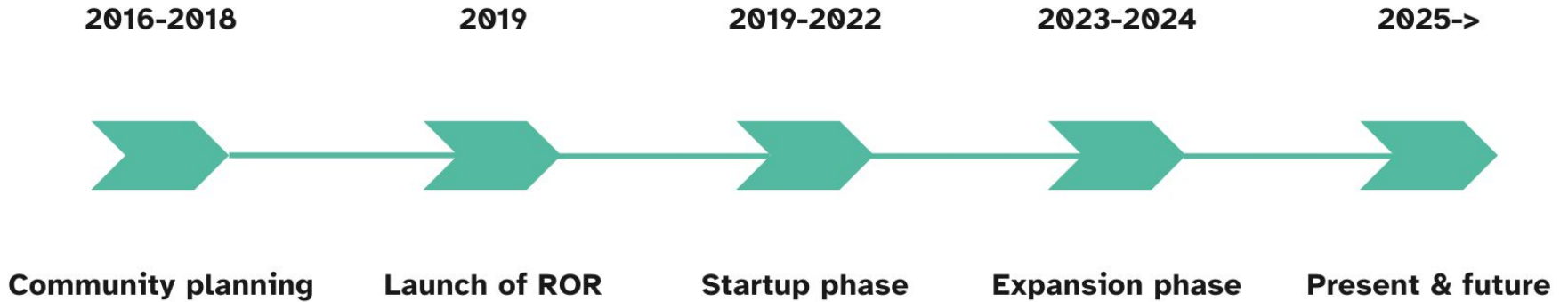
▼ Education and qualifications (1) [Sort](#)

Virginia Tech: Blacksburg, Virginia, US

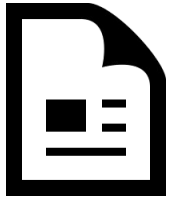
2016 to 2019 | MS (Grado Department of Industrial and Systems Engineering)
Education [Show less detail](#)

Organization identifiers
ROR: <https://ror.org/02smfhw86>
Virginia Tech: Blacksburg, US
<https://www.vt.edu/about/index.html>

History of ROR



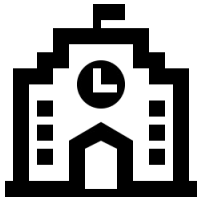
<https://ror.org/about/history/>



DOI for research outputs
(1997)



ORCID for researchers
(2012)



ROR for research organizations
(2019)

Features of ROR

- 115,000+ records, global coverage
- Open CC0 data and free REST API
- Easy to integrate into software systems
- Multilingual metadata and character sets
- Organization hierarchies and relationships
- Fast, accurate, and transparent curation
- Easy to request changes and additions
- 4-6 weeks to process most requests
- Built-in mapping to other identifiers
- Text to ROR ID matching tools
- Searchable on the web

Key systems use ROR

- Core infrastructure services
 - ◆ Crossref
 - ◆ DataCite
 - ◆ ORCID
 - ◆ OpenAire and OpenOrgs
- Knowledge graphs and large indexes
 - ◆ Web of Science
 - ◆ OpenAlex
 - ◆ Lens
 - ◆ Europe PMC
- Repository and CRIS systems
 - ◆ Zenodo
 - ◆ Figshare
 - ◆ Dryad
 - ◆ DSpace & DSpace-CRIS
- Publishing systems
 - ◆ Open Journal Systems (OJS)
 - ◆ AAAS Science Journals
 - ◆ Scholastica
- See also <https://ror.org/community/#adopters>

Better Together: ORCID + ROR

Result - ROR affiliations are growing

- **7.3 million** affiliations
- **5.1 million** records associated with a ROR
- **75,000** ROR IDs in use
- In 2024 we doubled the number of affiliations added!

Yearly affiliations with Org IDs ▼



How ROR data is used in the ORCID registry

38

ROR is noncommercial and sustainable

- ROR is operated as a collaborative initiative by the California Digital Library, Crossref, and DataCite as part of each organization's ongoing operational budget.
- ROR does not depend on grants or on fees, and it cannot be transferred to a commercial entity.
- ROR is committed to following the [Principles of Open Scholarly Infrastructure](#) (POSI).





CRIS Systems and ROR - The Present

ROR is used in popular CRIS systems and in custom workflows for tracking national research

ROR IN DSPACE-CRIS

- Creation of missing organization entities (configurable)
- Linking researcher affiliations, educations and qualifications to ROR-validated organizations
- Synchronization of department/unit level information organization with ORCID
- Interoperable with DataCite (affiliation, publisher)

4SCIENCE
Share your knowledge

www.4science.com



A screenshot of the 4Science website. The top navigation bar includes links for 'Communities & Collections', 'Research Outputs', 'Fundings & Projects', 'People', and 'Statistics'. The main content area displays the profile of 'Valentini, Cesare', an employee of 'Itway S.p.A.' in Milan, Italy. The profile includes a 'ROR Identifier' and a '4Science was established in 2015' note. A sidebar on the left shows navigation options like 'Researchers publications', 'Projects', and 'People'. The bottom section shows a list of publications, with one titled 'Building a Semantic Web Digital Library for the Municipality of Milan'.

CONCLUSIONS

- Alignment with Open Science Principles
- Supports FAIR (Findable, Accessible, Interoperable, Reusable) data principles
- Contributes to the broader open science ecosystem
- Improved Interoperability Seamless data exchange with external systems (e.g., ORCID, OAI-PMH)
- Empowering Institutional Identity: Strengthens the digital presence of research organizations
- Enables more accurate tracking and showcasing of institutional research impact
- A Step Towards Next-Generation Repository Services

Symplectic Elements v6.23 overview

Webinar

30th April 2025

4:00 pm – 5:00 pm GMT+1

Find out more about our products or services and to request a free no obligation demo

Get in touch

This release continues our focus on powerful metadata handling and system flexibility – introducing expanded external organisation support, improved repository integrations, and a major upgrade to the Award Management portal experience.

Some of the highlights we will cover include:

External Organisations

This release expands our support for organisation disambiguation across the platform. Building on work introduced in 6.22, Elements now uses authoritative identifiers like GRID and ROR to standardise data for grant funders, academic affiliations, degrees, certifications, and more.

Repository Tools Enhancements

Full support for DSpace 8, harvesting of file-level reuse licences and file creation times, and improved handling of deposit workflows and metadata mapping.

OA Monitor Enhancements

Building on the redesigned OA Monitor framework introduced in 6.20, you'll find new bulk action tools, a compliance override feature, and clearer metadata displays that show precisely which file or repository item determined OA compliance – helping institutions manage complex open access requirements with greater precision and transparency.

Awards Management portal upgrade

The researchers & reviewers portal in the Awards Management module has been overhauled to offer a faster, more intuitive experience for researchers and reviewers. With upgraded backend technology and improved UX, users can now submit deliverables directly and access key project information like budget details, documents, change requests, and contract statuses.

<https://www.symplectic.co.uk/events/symplectic-elements-v6-23-overview/>

ROR in the Pure ORCID integration

Configuring the ORCID integration to use ROR ID

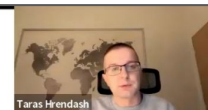
1. ROR ID must be added as ID on an organisation in the organisational hierarchies associated with persons exporting content to ORCID.

The screenshot displays the 'Organisational unit' configuration interface. On the left is a sidebar with navigation links: EDIT, Metadata (selected), Persons, OVERVIEW, Relations, Display, HISTORY AND COMMENTS, and History and comments. The main content area is titled 'Organisational unit' and contains several sections: 'Type' with a dropdown menu; 'Organisational unit information' with input fields for 'Organisational unit name *', 'Short name', 'Sort name', and 'Web name'; 'Profile information' with an 'Add profile information...' button; and 'IDs' with an 'ID type' dropdown set to 'ROR ID' and an 'ID *' input field containing the value '123456789'. At the bottom right are 'Cancel' and 'Create' buttons.

https://helpcenter.pure.elsevier.com/en_US/import-sources/using-ror-id-vs-using-ringgold-id

ROR and the Czech Republic

Problems with Data Integration



On the National database (IS VaVaI) side:

- **Issue:** Outputs have to be self-reported, but users sometimes (approx. 10%) forget to register their outputs.
Solution: We add missing outputs from WoS **based on affiliation**.
- **Issue:** Occasionally (6%), authors self-report more affiliations in the national database (due to multiple work contracts), but there are fewer affiliations in WoS.
Solution: WoS is used as the verification source **based on affiliation**.

On the WoS side:

- **Issue:** Missing affiliation (4-11%).
Solution: We attempt to infer affiliations based on the address string when possible.
- **Issue:** Incomplete affiliation data for Czech Academy of Science institutes (200-300 cases).
Solution: The national database is the primary source of information about affiliations.
- **Issue:** Incorrect affiliation.
Solution: No blind guessing; rely on feedback from research organizations.





CRIS Systems and ROR - The Future



The future of research information is FAIR and OPEN

The FAIR Principles



Findable: Metadata and data should be easy to find for both humans and computers.



Accessible: The exact conditions under which the data is accessible should be provided in such a way that humans and machines can understand them.



Interoperable: The (meta)data should be based on standardized vocabularies, ontologies, thesauri etc. so that it integrates with existing applications or workflows.



Reusable: Metadata and data should be well-described so that they can be replicated and/or combined in different research settings.

<https://www.go-fair.org>

The Barcelona Declaration



1

We will make openness the default for the research information we use and produce



2

We will work with services and systems that support and enable open research information



3

We will support the sustainability of infrastructures for open research information



4

We will support collective action to accelerate the transition to openness of research information

<https://barcelona-declaration.org/>

**What factors affect the
adoption of ROR in
international CRIS
infrastructures?**



Thank you!
Keep ROR-ing and
keep in touch!

support@ror.org

<https://ror.org>