

INFN Open Access Repository – Quick «How-To»

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14 aprile 2020

Outline

- Introduction and context
- How to access the INFN Open Access Repository
- How to upload contents on the INFN Open Access Repository
- Browse/create communities
- How to get support



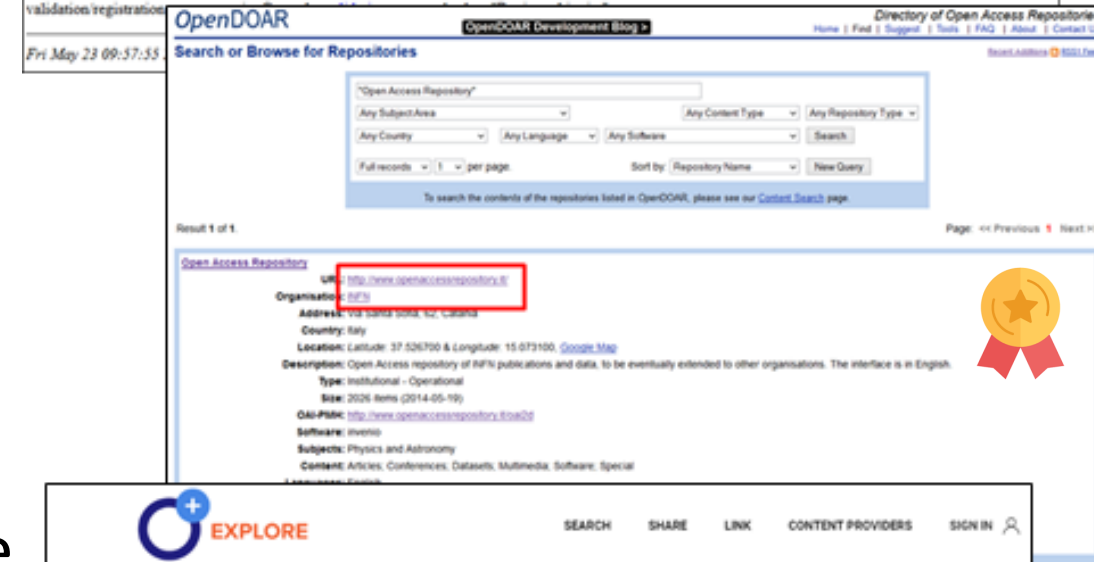
INFN Open Access Repository – Initial Requirements

- Compliant with Plan S
- Supports widely adopted protocols
- Able to store all kinds of digital assets
- Able to automatically harvest and store INFN-authored documents from other repositories
- Supports the management during the periodic national research assessments (VQR)
- Increases the visibility of both INFN research and researchers
- Compliant with EOSC guidelines

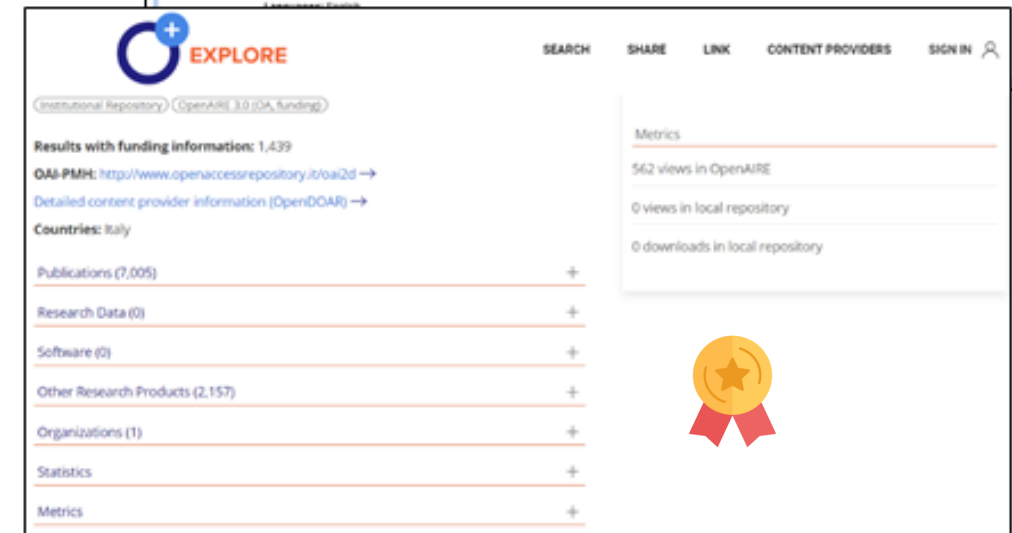
INFN OAR - the underlying DAMS ->

- Open source
- Deployable on a local infrastructure (i.e., not a hosted service)
- Compliant with main standards (e.g., [DCMI](#), [Marc21](#), [OAI-PMH](#))
- Can store all kinds of research outputs
- Large community
 - Co-developed by a large international collaboration comprising institutes such as CERN, DESY, EPFL, FNAL, SLAC and used as institutional Digital Asset Management System (DAMS) by tens of scientific institutions worldwide
- Active development
- Scalability
 - the CERN Document Server operates and manages since 2002 more than 0.7 million records in high-energy physics, covering articles, books, journals, photos, videos, and more
 - Zenodo currently hosts about 1.5 million records belonging to various disciplines
- Experience
 - Work with Invenio at INFN Catania since 2006

INFN OAR - a bit of history

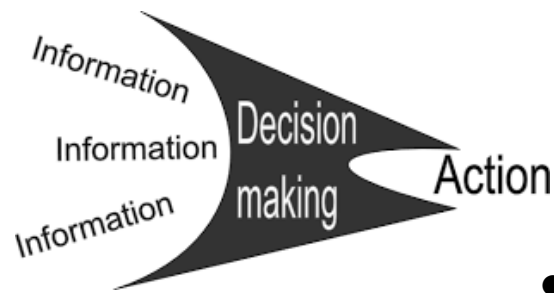


- Developed at Catania since 2014
- Intended to be a standard & certified single entry point for the deposit of research outputs and other digital assets
- Uses standards to exchange data and metadata with other repositories ([arXiv](#), [SCOAP³](#), [Zenodo](#), [re3data](#), etc.)



INFN OAR - a bit of history

- Since INFN OAR first version (2014):
 - Invenio v1 reached its end of life and will not receive any further updates
 - Invenio v2, was a transitional release never made widely public
 - Zenodo was officially launched
 - Invenio v3.0 was officially released (June 2018)
 - Zenodo developers released their code on GitHub, including the GUI (August 2018)



- Migration from Invenio v1 to Zenodo (based on Invenio v3)
- Zenodo GUI customised and adapted as the front-end of the new version of the INFN OAR
- Integration with INFN-AAI, [GARR IDEM](#) and [eduGAIN](#)
 - ([SAML](#)-based) federated authentication
- Re-engineering of back-end architecture into micro-services
 - [Kubernetes](#)
 - [CI/CD](#)
- First deployed at the end of 2018
- Open for use since end of March 2019

INFN OAR – functionalities and compliances

The screenshot shows the INFN OAR website interface. At the top, there is a blue header with the INFN OAR logo on the left, a search bar, and navigation links for 'Upload', 'Communities', and 'Login'. Below the header, the main content area is divided into two columns. The left column, titled 'Latest entries', lists three recent uploads with their dates, types, and 'Open Access' status. Each entry includes a 'View' button and a brief description. The right column, titled 'INFN Open Access Repository at a glance', contains a bulleted list of key features: Research. Shared., Findable. Citeable. Discoverable., Communities, Funding, and Flexible licensing. Below this, there is a section for 'Tweets by @INFN_' featuring a tweet from INFN_ in Italian about a research proposal. At the bottom of the tweet section is a small image of a galaxy or nebula.

INFN
OAR
Open Access Repository

Search [] [] Upload Communities [] Login

Latest entries

February 22, 2020 (v1) Journal article Open Access View
Plan S e le società scientifiche – una rivoluzione per l'Open Access?
Bianco, Stefano; Patrizi, Laura
Pagare per scrivere o pagare per leggere? O magari pagare due volte, sia per scrivere sia per leggere? Valutare il contenuto dell'articolo oppure il suo contenitore? Dove finiscono i diritti degli scrittori e iniziano quelli dei lettori? L'accesso alla scienza pubblica deve essere gratuito ed...
Uploaded on February 22, 2020

January 21, 2020 (v1.0) Presentation Open Access View
INFN use-case: Open Access Repository
Barbera, Roberto; Bruno, Riccardo; Fargetta, Marco; Rotondo, Riccardo
INFN OAR Presentation at the InvenioRDM Project Meeting held at CERN 20-24 January 2020.
Uploaded on January 21, 2020

October 8, 2019 (v1) Journal article Open Access View
Dimensional reduction in networks of non-Markovian spiking neurons: Equivalence of synaptic filtering and heterogeneous propagation delays
Mattia, Maurizio; Biggio, Matteo; Galluzzi, Andrea; Storace, Marco
Understanding the collective behavior of the intricate web of neurons composing a brain is one of the most challenging and complex tasks of modern neuroscience. Part of this complexity resides in the distributed nature of the interactions between the network components: for instance, the neurons...
Uploaded on November 14, 2019

October 16, 2019 (v1) Poster Open Access View
Science Reproducibility and Reusability with FutureGateway and a Zenodo-like repository: the PALMS experiment
Bruno, Riccardo; Barbera, Roberto; Fargetta, Marco; Rotondo, Riccardo; Anagnostou, Anastasia; Taylor, Simon J. E.
Open Science (OS) is a powerful and novel paradigm to share knowledge across multidisciplinary scientific communities with the aim to improve the quality of science. One of the most important OS enablers are the FAIR principles, which

INFN Open Access Repository at a glance

- **Research. Shared.** – all research outputs from across all domains of INFN research are welcome!
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- **Funding** – you can associate an upload to the grant that has funded the work.
- **Flexible licensing** – you can choose among several licenses. You can also upload closed or embargoed research outputs.

Tweets by @INFN_

INFN @INFN_
Per risolvere un'anomalia osservativa di alcuni blazar, un gruppo di ricercatori dell'INAF e dell'INFN ha proposto una soluzione che coinvolge ipotetiche particelle chiamate ALP che sono tra i candidati per la materia oscura. @mediainaf
home.inf.it/it/comunicazio...

- Adopts leading-edge technologies in the domain of digital repositories
- Includes the possibility for digital assets, offered by the new Zenodo GUI, to be stored in the repository not only open access but also embargoed, restricted and closed
- Exploits the concept of “communities”, which is central in the Zenodo architecture, to cope with several aggregation of contents: per INFN division, per Scientific Committee, per project, per initiative, etc.
- Open to non-INFN users (thanks to the concept of «Communities»)
- Supports DOI versioning
- **Is compliant with Plan S requirements & guidelines**
- **Is compliant with FAIR principles**

<http://openaccessrepository.it>

Plan S requirements & guidelines (<https://bit.ly/2Vo4jrE>)

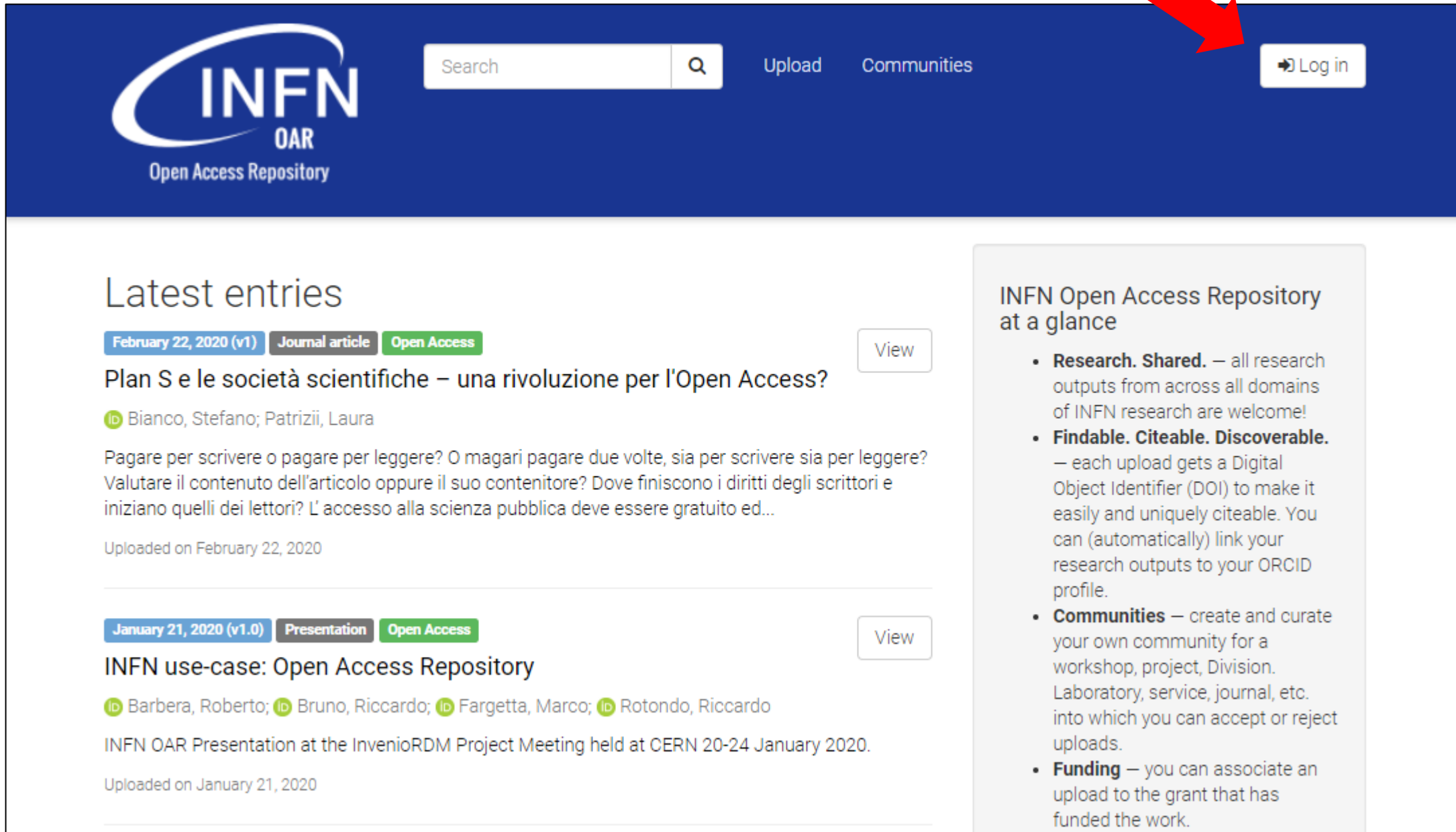
The image is a screenshot of the Plan S website. At the top left, there is a logo consisting of an orange padlock icon and the text 'Plan S' in a bold, sans-serif font, with the tagline 'Making full and immediate Open Access a reality' underneath it. To the right of the logo, there are navigation links: 'Why Plan S', 'Principles and Implementation' (which is underlined with an orange line), 'Who's involved', and 'About'. Below these links are two more options: 'Contact' and 'Apply for Transformative Journal status'. The main content area features a large graphic with a white background and an orange overlay. The text 'Making full and immediate Open Access a reality' is written in white on the orange background. Below this, the words 'Principles and Implementation' are written in a large, bold, orange font. The background of the graphic is filled with various white line-art icons related to technology, education, and open access, such as a laptop, a lightbulb, a gear, a shield, a hand cursor, a magnifying glass, a graduation cap, a database, a thumbs up, and a padlock. The overall design is clean and modern, using a color palette of orange, white, and grey.

FAIR principles (www.go-fair.org/fair-principles/)

FAIR Principles	Compliance
 <h3>Findability</h3> <p>Resource and its metadata are easy to find by both, humans and computer systems. Basic machine readable descriptive metadata allows the discovery of interesting data sets and services.</p>	<ul style="list-style-type: none">✓ F1. Resource is uploaded to a public repository.✓ F2. Metadata are assigned a globally unique and persistent identifier.
 <h3>Accessibility</h3> <p>Resource and metadata are stored for the long term such that they can be easily accessed and downloaded or locally used by humans and ideally also machines using standard communication protocols.</p>	<ul style="list-style-type: none">✓ A1. Resource is accessible for download or manipulation by humans and is ideally also machine readable.✓ A2. Publications and data repositories have contingency plans to assure that metadata remain accessible, even when the resource or the repository are no longer available.
 <h3>Interoperability</h3> <p>Metadata should be ready to be exchanged, interpreted and combined in a (semi)automated way with other data sets by humans as well as computer systems.</p>	<ul style="list-style-type: none">✓ I1. Resource is uploaded to a repository that is interoperable with other platforms.✓ I2. Repository meta- data schema maps to or implements the CG Core metadata schema.✓ I3. Metadata use standard vocabularies and/or ontologies.
 <h3>Reusability</h3> <p>Data and metadata are sufficiently well-described to allow data to be reused in future research, allowing for integration with other compatible data sources. Proper citation must be facilitated, and the conditions under which the data can be used should be clear to machines</p>	<ul style="list-style-type: none">✓ R1. Metadata are released with a clear and accessible usage license.✓ R2. Metadata about data and datasets are richly described with a plurality of accurate and relevant attributes.

How to access the INFN Open Access Repository

Login (<http://openaccessrepository.it>)



The screenshot shows the homepage of the INFN Open Access Repository. The top navigation bar is dark blue and contains the INFN OAR logo, a search bar, and links for 'Upload' and 'Communities'. A 'Log in' button is located in the top right corner, highlighted by a red arrow. Below the navigation bar, the main content area is white. On the left, there is a 'Latest entries' section with two article listings. Each listing includes a date, category, 'Open Access' tag, a 'View' button, author names with ORCID icons, a short abstract, and the upload date. On the right, there is a grey box titled 'INFN Open Access Repository at a glance' containing a bulleted list of features: Research Shared, Findable/Citeable/Discoverable, Communities, and Funding.



INFN OAR
Open Access Repository

Search [] [Q] Upload Communities **Log in**

Latest entries

February 22, 2020 (v1) Journal article Open Access View

Plan S e le società scientifiche – una rivoluzione per l'Open Access?





 Bianco, Stefano;  Patrizii, Laura

Pagare per scrivere o pagare per leggere? O magari pagare due volte, sia per scrivere sia per leggere? Valutare il contenuto dell'articolo oppure il suo contenitore? Dove finiscono i diritti degli scrittori e iniziano quelli dei lettori? L'accesso alla scienza pubblica deve essere gratuito ed...

Uploaded on February 22, 2020

January 21, 2020 (v1.0) Presentation Open Access View

INFN use-case: Open Access Repository

 Barbera, Roberto;  Bruno, Riccardo;  Fargetta, Marco;  Rotondo, Riccardo


INFN OAR Presentation at the InvenioRDM Project Meeting held at CERN 20-24 January 2020.

Uploaded on January 21, 2020


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Login




Log in


 Log in with your organisation


 Log in with GitHub


 Log in with ORCID

— OR —

Email Address 

Password 

 Log In



Login

SELECT YOUR IDENTITY FEDERATION

Catch-all **GrIDP**

Worldwide **eduGAIN**

Italy **IDEM**

Not Sure? Click Here

Click here if you have credentials issued by IDPOPEN (see next slide)

Click here if you have federated credentials and you're coming from outside Italy

Click here if you have federated credentials from an Italian University or Research Organisation

Click here if you don't have any federated credentials (see next slide)

**What if you don't have any federated credentials?
(Others, jump to slide no. 20)**

Go to <https://idpopen.garr.it/> and register yourself

The screenshot shows the registration page of the GARR IdP service. At the top, there is a navigation bar with links for 'About', 'Service Providers', 'Documentation', 'Register', and 'Log-in'. Below the navigation bar is a central graphic featuring a large orange padlock icon with the word 'Services' written vertically to its right. To the left of the padlock are several small icons of people, and to the right are several computer monitor icons. Below this graphic is the 'Register' section, which contains a form for 'Personal information'. The form fields include: 'Given Name*', 'Family Name*', 'Title', 'Address', 'Phone', 'Desired username*' (with 'barbera' entered), 'Password*', 'Confirm password*', 'Country*' (a dropdown menu showing 'Select Country'), 'Organisation*' (a dropdown menu showing 'Select Organisation'), 'Institutional Email Address*', and 'Additional Email Addresses*'. At the bottom of the form is a 'register' button. Below the form is a 'Note' section with the text: 'If you would change your password or other information please log-in to the IdP service following the Account link on the top right corner'. At the very bottom, it says 'Hosted by GARR - Managed by UNICT and INFN'.

Use institutional email addresses

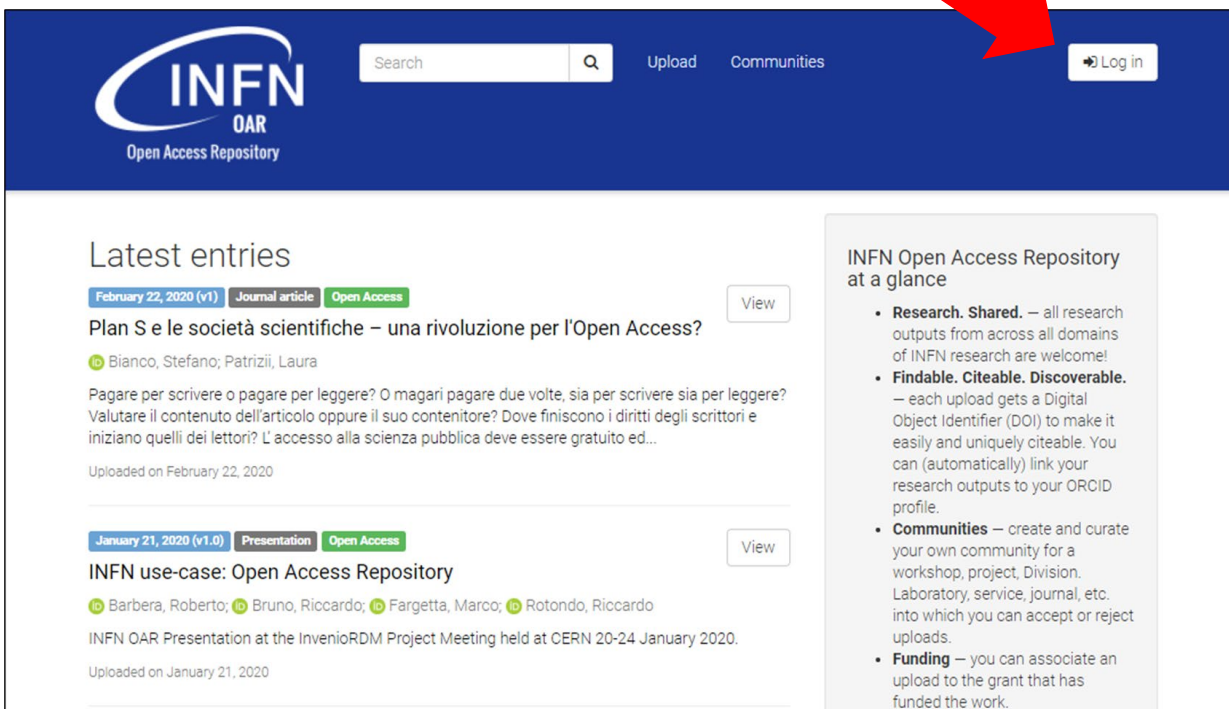


Note: registration needs human intervention for approval

You will get your credentials in 1-2 working days

Login

(<http://openaccessrepository.it>)



INFN OAR Open Access Repository

Search [] [] Upload Communities [] Log in

Latest entries

February 22, 2020 (v1) Journal article Open Access [View]

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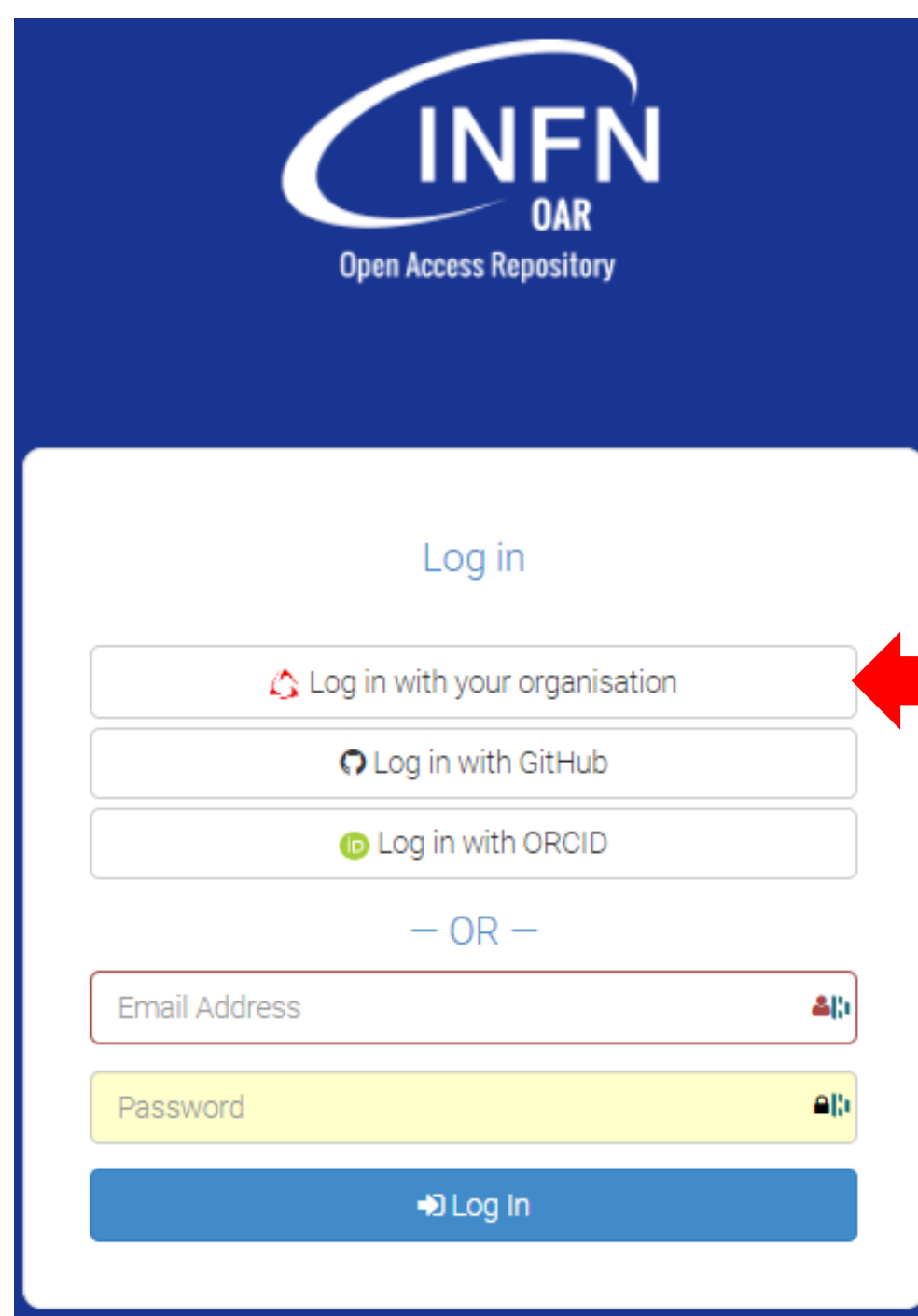
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INFN OAR Open Access Repository

Log in

Log in with your organisation

Log in with GitHub

Log in with ORCID

– OR –




Email Address [] []

Password [] []

Log In

Login

**SELECT YOUR
IDENTITY FEDERATION**

 Catch-all	GrIDP		
 Worldwide	eduGAIN		
 Italy	IDEM		

 **Not Sure ?
Click Here** 

Login

 SELECT YOUR IDENTITY PROVIDER

 **IDPOPEN** 
Catch-all

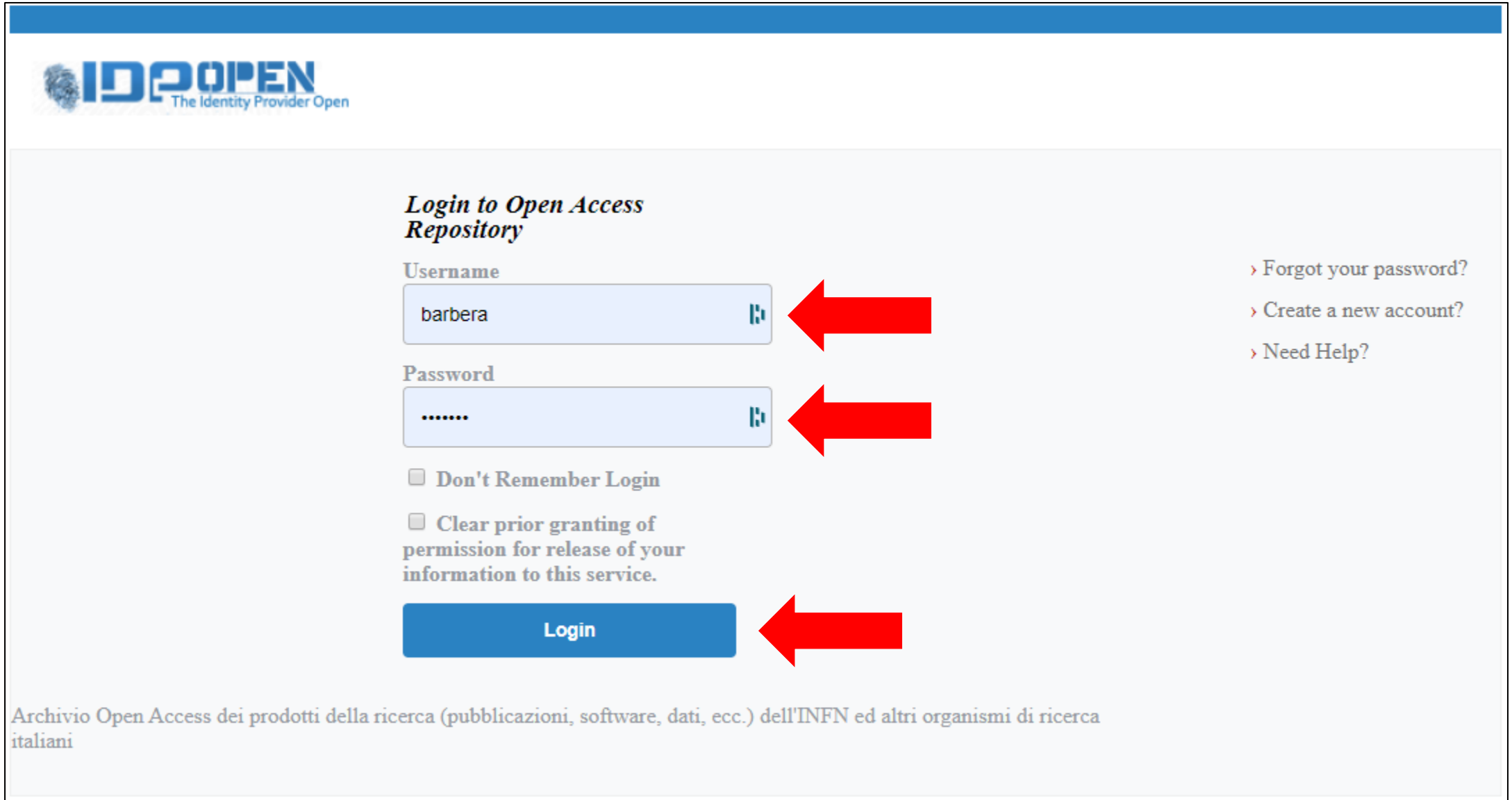
 **Social Networks' Bridge IdP** 
Social

 **DZ ARN IDP** 
Algeria

 **EGI.eu** 
The Netherlands



Login



IDP OPEN
The Identity Provider Open

Login to Open Access Repository

Username
barbera

Password
.....

Don't Remember Login

Clear prior granting of permission for release of your information to this service.

Login

[› Forgot your password?](#)
[› Create a new account?](#)
[› Need Help?](#)

Archivio Open Access dei prodotti della ricerca (pubblicazioni, software, dati, ecc.) dell'INFN ed altri organismi di ricerca italiani

After a successful login (<http://openaccessrepository.it>)

INFN OAR
Open Access Repository

Search

Upload Communities

roberto.barbera@ct.infn.it

Latest entries

February 22, 2020 (v1) Journal article Open Access View

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Complete your profile (1/2)

INFN OAR Open Access Repository

Search Upload Communities roberto.barbera@ct.infn.it

- Profile
- Security
- Linked accounts
- Applications
- Shared links
- GitHub
- Administration
- Log out

Latest entries

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Complete your profile (2/2) – fill all fields and update your profile

Home / Account / Profile

Settings

- Profile
- Security
- Linked accounts
- Applications
- Shared links
- GitHub
- Administration

Profile

Username


Required. Username must start with a letter, be at least three characters long and only contain alphanumeric characters, dashes and underscores.

Full name

Email address

Re-enter email address

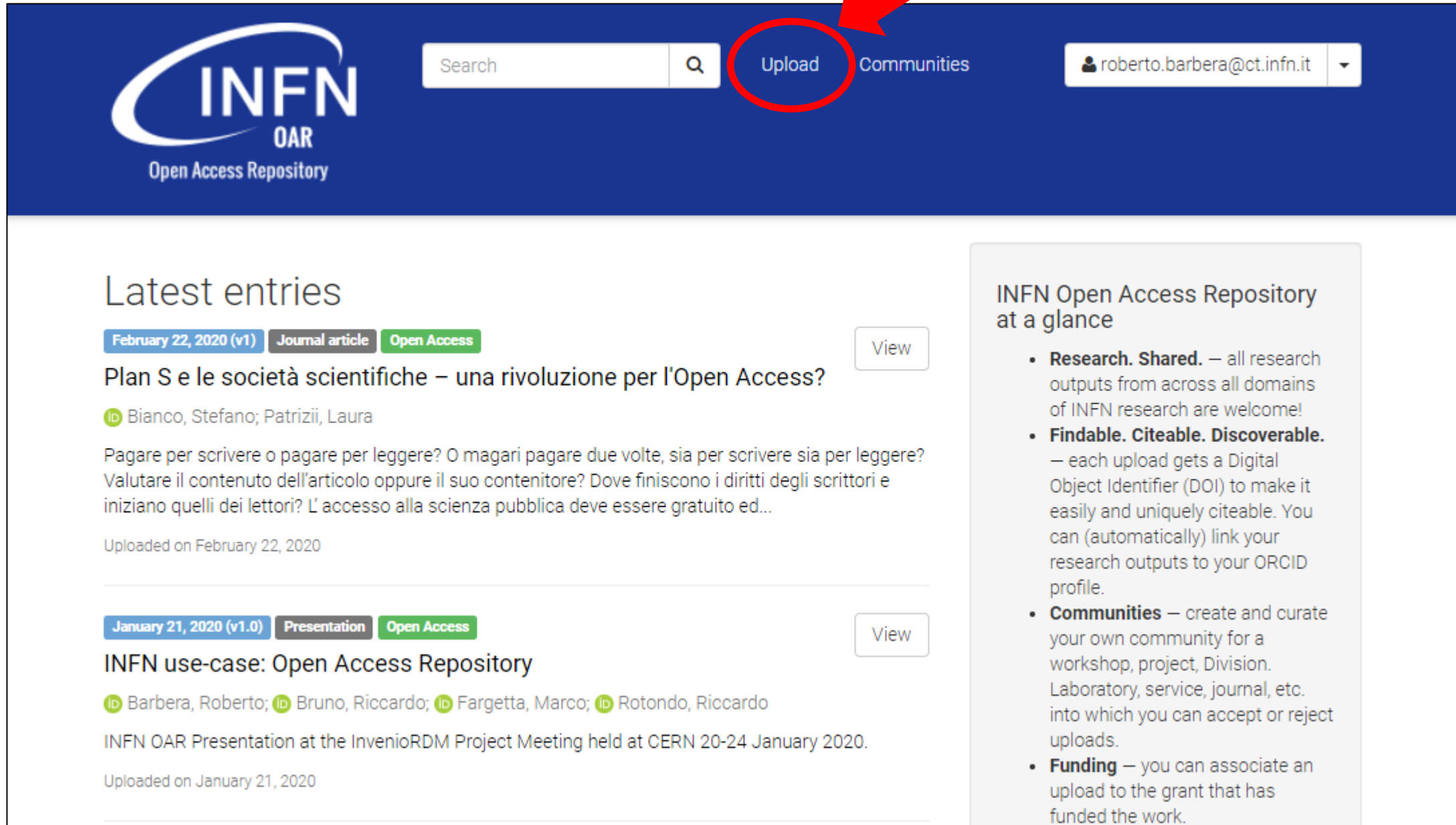
Please re-enter your email address.



How to upload contents on the INFN Open Access Repository

Upload contents

Click on Upload



The screenshot shows the top navigation bar of the INFN Open Access Repository. The 'Upload' button is circled in red, and a red arrow points to it from the text 'Click on Upload' located above the navigation bar. The navigation bar also includes a search box, a 'Communities' link, and a user profile dropdown menu for 'roberto.barbera@ct.infn.it'. Below the navigation bar, the page displays 'Latest entries' with two article listings. The first article is 'Plan S e le società scientifiche – una rivoluzione per l'Open Access?' by Bianco, Stefano; Patrizii, Laura, dated February 22, 2020. The second article is 'INFN use-case: Open Access Repository' by Barbera, Roberto; Bruno, Riccardo; Fargetta, Marco; Rotondo, Riccardo, dated January 21, 2020. On the right side, there is a sidebar titled 'INFN Open Access Repository at a glance' containing a list of features: Research. Shared., Findable. Citeable. Discoverable., Communities, and Funding.

INFN
OAR
Open Access Repository

Search

[Upload](#) [Communities](#)

roberto.barbera@ct.infn.it

Latest entries

February 22, 2020 (v1) **Journal article** **Open Access** [View](#)

Plan S e le società scientifiche – una rivoluzione per l'Open Access?

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January 21, 2020 (v1.0) **Presentation** **Open Access** [View](#)

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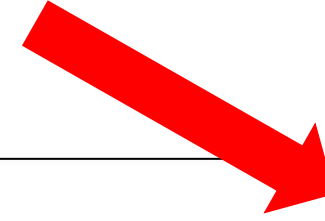
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Upload contents

Click on New Upload

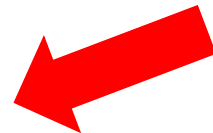


Search uploads...

Sort

CovidStat @ INFN Open Access Repository
Created Apr 10, 2020 2:56:49 PM, modified Apr 10, 2020 3:06:20 PM

Open Science in action
Created Dec 4, 2019 8:10:28 AM, modified Dec 4, 2019 9:15:00 PM



Past uploads

Select the file to be uploaded

First, select the file

Instructions: (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your work for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

Files ▼

📁 Choose files 👉 Start upload

Drag and drop files here

— or —

📁 Choose files

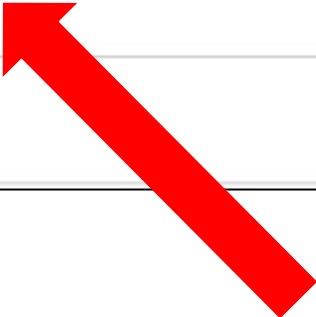
(minimum 1 file required, max 50 GB per dataset - [contact us](#) for larger datasets)

Then, start the transfer

Select the Community/ies your upload should belong to

Communities ? recommended ▼

Start typing a community name... 🔍



You can associate an upload to more than one community

Select the type of upload

Upload type required ▾

Publication Poster Presentation Dataset Image Video/Audio Software Lesson Other

Publication type

In case of a Publication,
click to select the type



- Journal article ▾
- Book
- Book section
- Conference paper
- Journal article**
- Patent
- Preprint
- Project deliverable
- Project milestone
- Proposal
- Report
- Software documentation
- Thesis
- Technical note
- Working paper
- Other

Provide some basic information (1/2)

Leave this empty unless your upload already has a DOI

Basic information required

Digital Object Identifier

Optional. Did your publisher already assign a DOI to your upload? If not, leave the field empty and we will register a new DOI for you. A DOI allows others to easily and unambiguously cite your upload. Please note that it is NOT possible to edit a DOI once it has been registered by us, while it is always possible to edit a custom DOI.

Publication date *

Required. Format: YYYY-MM-DD. In case your upload was already published elsewhere, please use the date of first publication.

Title *

Required.

Authors *

Optional.

[+ Add another author](#)


DOIs are automatically minted so you should not need reservation in most cases



Comply with the format

Including ORCID ID is highly recommended
If you don't have one, go to <https://orcid.org/signin>

Provide some basic information (2/2)

Description *



Required.

Version

Optional. Mostly relevant for software and dataset uploads. Any string will be accepted, but semantically-versioned tag is recommended.
See semver.org for more information on semantic versioning.

Language

e.g.: 'eng', 'fr' or 'Polish'

Optional. Primary language of the record. Start by typing the language's common name in English, or its ISO 639 code (two or three-letter code).
See [ISO 639 language codes list](#) for more information.

Keywords

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Important: one keyword per line, not many in the same line

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- Restricted Access
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@ Grants ×

Optional. OpenAIRE-supported projects only. For other funding acknowledgements please use the *Additional Notes* field.
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Related/alternate identifiers recommended

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Browse/create communities

Browse communities (1/2)

Click on Communities

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Upload **Communities**

Latest entries

February 22, 2020 (v1) **Journal article** **Open Access**

Plan S e le società scientifiche – una rivoluzione per l'Open Access?

Bianco, Stefano; Patrizij, Laura

Pagare per scrivere o pagare per leggere? O magari pagare due volte, sia per scrivere sia per leggere? Valutare il contenuto dell'articolo oppure il suo contenitore? Dove finiscono i diritti degli scrittori e iniziano quelli dei lettori? L'accesso alla scienza pubblica deve essere gratuito ed...

Uploaded on February 22, 2020

January 21, 2020 (v1.0) **Presentation** **Open Access**

INFN use-case: Open Access Repository

Barbera, Roberto; Bruno, Riccardo; Fargetta, Marco; Rotondo, Riccardo

INFN OAR Presentation at the InvenioRDM Project Meeting held at CERN 20-24 January 2020.

Uploaded on January 21, 2020

INFN Open Access Repository at a glance

- **Research. Shared.** – all research outputs from across all domains of INFN research are welcome!
- **Findable. Citeable. Discoverable.** – each upload gets a Digital Object Identifier (DOI) to make it easily and uniquely citeable. You can (automatically) link your research outputs to your ORCID profile.
- **Communities** – create and curate your own community for a workshop, project, Division. Laboratory, service, journal, etc. into which you can accept or reject uploads.
- **Funding** – you can associate an upload to the grant that has funded the work.

Browse communities (2/2)

Communities created and curated by INFN Open Access Repository users

Search communities

Showing 0 to 8 out of 8 communities.

Sort by

Associazione italiana per la promozione della scienza aperta (AISA)

View

Collection of videos, writings and presentation slides from the events organized by the Associazione italiana per la promozione della scienza aperta.

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University of Innsbruck

View

Test community for University of Innsbruck.

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Istituto Zooprofilattico Sperimentale della Sicilia

View

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COVIDSTAT-INFN

View

Curate

CovidStat is a project carried out by the CovidStat Working Group at INFN, whose creation was promoted within the Italian National Institute of Nuclear Physics with the aim of making a statistical analysis of the data provided daily by the Civil...

Curated by: roberto_barbera

My communities

New

COVIDSTAT-INFN

Identifier: covidstat-infn

Actions

Department of Physics and Astronomy 'E. Majorana' of the University of Catania

Identifier: dfa

Actions

Click on View to browse the contents belonging to a community

Create a new community (1/2)

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My communities New

- COVIDSTAT-INFN** Actions ▾
Identifier: covidstat-infn
- Department of Physics and Astronomy 'E. Majorana' of the University of Catania** Actions ▾
Identifier: dfa

Click on New to create a new community

Create a new community (1/2) - fill the form and then "Create"

New community

Information ▾


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Title

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Description



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June 2, 2019 (v1) Software Open Access View

Valutazione Rischio Chimico_LNF


 Cantone, Claudio

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Uploaded on June 2, 2019

May 9, 2019 (v2) Presentation Open Access View

Plan S e accesso aperto: fra principi, mercato e processi valutativi della ricerca

 Stefano Bianco


Presentation by Stefano Bianco at the conference "I costi della conoscenza", Pisa May 9th 2019.




Uploaded on May 17, 2019
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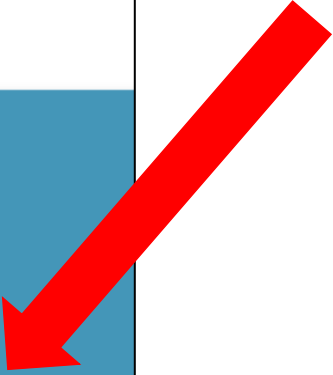
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