



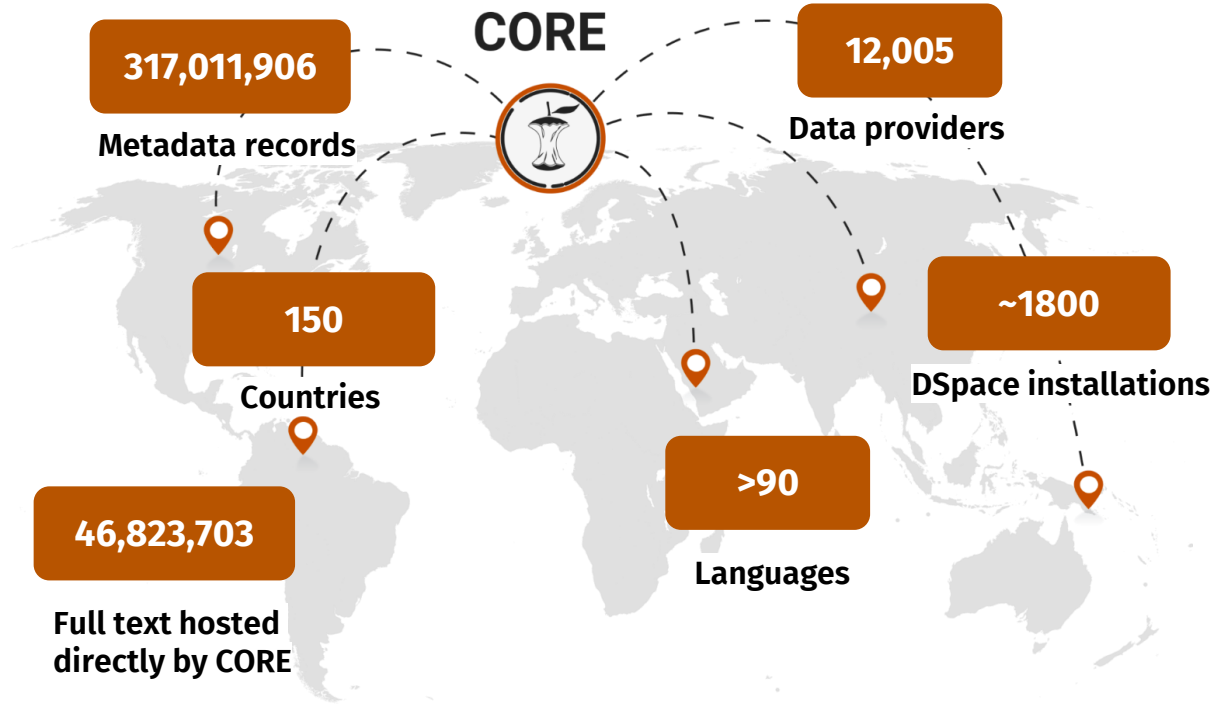
# Connectivity and Visibility of **DSpace** Repositories

CORE Operations Manager

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# CORE - Global Repository Coverage



Widely used (thousands of installations world-wide)

Broad global community

Approved and stable out-of-the box system, extendable (Research data, CRIS functionality)

## **DSpace** Characteristics

Reliable based on more than twenty years of development history

Metadata well-structured and complete

Some technical problem/challenges (details below)

## Where it all began

<https://dspace.mit.edu>

<https://dspace.mit.edu/oai/request>

MIT  
Libraries

DSpace@MIT

[DSpace@MIT Home](#)

## DSpace@MIT

DSpace@MIT is a digital repository for MIT's research, including peer-reviewed articles, technical reports, working papers, theses, and more.

Search MIT

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BROWSE

All of DSpace

Communities & Collections

By Issue Date

## Recommendations for visibility, connectivity and quality

- Checking the OAI-PMH interface via Browser and/or OAI-PMH Validator  
(<https://www.openarchives.org/Register/ValidateSite>)
- Take a look at your Configuration (OAI-PMH, Handle)
- Deliver correct Contact Address (on web-site and Identify response) and Observe the incoming feedback
- (Parallel) English interface (start page) for global users
- Pay attention to the Metadata Quality (Document links, Usage of Vocabularies)
- Register at Common Registries as OpenDOAR, Openarchives, ([www.openarchives.org](http://www.openarchives.org)) and Service Providers (CORE, <https://core.ac.uk/benefits#join-core>) and communicate changes
- Take a look at the CORE Data Provider's Guide  
(<https://core.ac.uk/documentation/data-providers-guide>)

## Checking the OAI-PMH interface via Browser

The DSpace base url for a ListRecords call  
has the standard format:

```
https://dspace.mit.edu/oai/request?verb=ListRecords&metadataPrefix=oai\_dc
```

# Checking the OAI-PMH interface via Browser



DSpace OAI-PMH Data Provider

Identify Sets Records

Response Date 2025-02-03 06:37:51

## List of Records

Results fetched 0 - 100 of 145049

Identifier oai:dspace.mit.edu:1721.1/126771

Last Modified 2022-09-26 07:12:38

Sets

### Metadata

```
<oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
  <dc:title>Michael Milken's Spreadsheets: Computation and Charisma in Finance in the Go-Go '80s</dc:title>
  <dc:creator>Deringer, William P</dc:creator>
  <dc:contributor>Massachusetts Institute of Technology. Program in Science, Technology and Society</dc:contributor>
  <dc:contributor>Deringer, William P</dc:contributor>
  <dc:description>Wall Street lore holds that "junk bond" king Michael Milken once blamed the tumultuous changes that roiled Am
—surveillance, valuation, and imagination—
each crucial to Milken's "machine." Yet this article also exposes another side to Milken's success, grounded not in computation l
construction of "killer apps" and "killer applicants" in the early history of personal computing.</dc:description>
  <dc:date>2020-08-24T19:47:30Z</dc:date>
  <dc:date>2020-08-24T19:47:30Z</dc:date>
```

## **DSpace – Potential OAI-PMH Problems**

**OAI-PMH interface not enabled**

**Internal server error**

**Security Error**

**noRecordsMatch**

**Handle Connectivity not configured**

**Not working local links to document (example: url uses localhost)**

**ListRecords call crashes**



## OAI-PMH interface not enabled

- <https://www.xxx.xx/cris/server/oai/request>

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404

Page not found

We can't find the page you're looking for. The page may have been moved or deleted.

## DSpace – Potential Problems

# HTTP Status 500 – Internal Server Error

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**Type** Status Report

**Message** An internal read or write operation failed

**Description** The server encountered an unexpected condition that prevented it from fulfilling the request.

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**Apache Tomcat/9.0.31 (Ubuntu)**

# Access Problems



## Warning: Potential Security Risk Ahead

Firefox detected an issue and did not continue to **repositorio.uniscjsa.edu.pe** because the site is misconfigured or your computer clock is set to the wrong time.

It's likely the web site's certificate is expired, which prevents Firefox from verifying the site. Attackers could try to steal information like your passwords, emails, or credit cards.

### What can you do about it?

The issue is most likely with the web site, and there is nothing you can do as a user or administrator about the problem.

[Learn more...](#)

Go



## Your connection is not private

Attackers might be trying to steal your information from **repositorio.uniscjsa.edu.pe** (for example, passwords, messages, or credit cards). [Learn more about this warning](#)

NET::ERR\_CERT\_DATE\_INVALID



[Turn on enhanced protection](#) to get Chrome's highest level of security

Advanced

Back to safety

**Sometimes the OAI response says: noRecordsMatch while the web-site has contents**

## OAI Error(s)

The request could not be completed due to the following error or errors.

**Error Code** noRecordsMatch

No matching records in this repository

## Handle connection not correct

```
<dc:type>Other</dc:type>  
<dc:identifier>http://hdl.handle.net/123456789/53</dc:identifier>
```

## Handle.Net<sup>®</sup>

The handle you requested, *123456789/53*, could not be found.

This handle is not valid. The numbers 123456789 are just a place holder for a valid handle prefix. It appears the DSpace site you encountered has not yet implemented handles. You will need to send an email to a contact from the DSpace site. There is nothing we can do from this end. Good luck.

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[Handle Proxy Server Documentation](#)  
[Handle.net Web Site](#)

## Handle connection not correct

```
<dc:identifier>1992-6510</dc:identifier>  
<dc:identifier>http://hdl.handle.net/11592/156</dc:identifier>  
<dc:language>spa</dc:language>
```



hdl.handle.net/11592/15

## Handle.Net®

### Error - Cannot Connect to Server

The handle you requested --

*11592/15*

-- cannot be found.

You may report this error using the form below.

**Handle:**

**URL of Web Page Listing the Handle:**

**Your Email Address:**

**Additional Information About the Error:**

## Document url not correct

```
<dc:identifier>http://localhost:8080/xmlui/handle  
/123456789/356</dc:identifier>
```

## Unable to connect

Firefox can't establish a connection to the server at localhost:8080.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the web.

Try Again

## Local document link not correct

```
<dc:identifier>http://repositorio.xxx.br/handle/123456789/395</dc:identifier>  
<dc:identifier>http://hdl.handle.net/123456789/6</dc:identifier>
```

## Not Found

The requested URL </handle/123456789/395> was not found on this server.



## DSpace – Local link does not work

<dc:identifier>http://dspace.unipampa.edu.br:8080/jspui/handle/riu/5524</dc:identifier>

Use este identificador para citar ou linkar para este item: <https://repositorio.unipampa.edu.br/jspui/handle/riu/5486>

Tipo: **Dissertação**

Título: Avaliação de diferentes compostos contra paralisia e efeitos deletérios em modelo de esclerose lateral amiotrófica em *Caenorhabditis elegans*

Título(s) alternativo(s): Evaluation of different compounds against paralysis and deleterious effects in a model of amyotrophic lateral sclerosis in *Caenorhabditis elegans*

Autor(es): Dal Forno, Ana Helena de Castro

# OAI-PMH ListRecords Crashes

[https://dspace.xxx.cz/oai/request?verb=ListRecords&resumptionToken=oai\\_dc%2F%2F%2F%2F47000](https://dspace.xxx.cz/oai/request?verb=ListRecords&resumptionToken=oai_dc%2F%2F%2F%2F47000)

**HTTP Status 500 - com.lyncode.xoai.dataprovider.exceptions.WritingXmlException: Error trying to output "**

**type** Exception report

**message** com.lyncode.xoai.dataprovider.exceptions.WritingXmlException: Error trying to output "

**description** The server encountered an internal error that prevented it from fulfilling this request.

**exception**

```
java.io.IOException: com.lyncode.xoai.dataprovider.exceptions.WritingXmlException: Error trying to output ''
    org.dspace.xoai.services.impl.cache.DSpaceXOAICacheService.store(DSpaceXOAICacheService.java:113)
    org.dspace.xoai.controller.DSpaceOAIDataProvider.contextAction(DSpaceOAIDataProvider.java:104)
    sun.reflect.GeneratedMethodAccessor553.invoke(Unknown Source)
    sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    java.lang.reflect.Method.invoke(Method.java:498)
    org.springframework.web.method.support.InvocableHandlerMethod.invoke(InvocableHandlerMethod.java:213)
    org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:126)
    org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:96)
    org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:617)
```

# Contact Information is difficult to find

E-Mail Contact

[dspace-help@myu.edu](mailto:dspace-help@myu.edu)

Entrar no repositório



[Usuário novo? Clique aqui para se registrar](#)

Digite seu endereço de e-mail e senha nos espaços abaixo

Endereço de e-mail:

Senha:

Entrar

[Esqueceu sua senha?](#)

## Version upgraded OAI-PMH base url without redirect

The format of the Dspace base url was different depending on the version and changed with a version change. A redirect from the previous URL is necessary so that the calls continue to work

### Development stages of the DSpace Base url format

`http://dspace.xxx.org:8080/dspace-oai/request`

`http://dspace.xxx.org/dspace-oai/request`

`https://dspace.xxx.org/dspace-oai/request`

`https://dspace.xxx.org/oai/request`

`https://dspace.xxx.org/server/oai/request`

`https://dspace.xxx.org/rest/oai/request`

`https://dspace.xxx.org/api/oai/request`

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**CORE**

**Thank you for your attention!**