

# DSPACE and Google Scholar Webinar for Ghana



**DSPACE**

(Michele Mennielli)



(Monica Westin)



(Richard Bruce Lamptey)



(Iryna Kuchma)



(Omo Oaiya)

- > Mailing Lists
- > User Groups
  - DSpace-Konsortium Deutschl...
  - > German DSpace User Group
  - > **Ghanaian DSpace User Group**
    - Webinar - DSpace and Goo...
  - > Grupo Argentino de Usuarios ...
  - > Grupo Brasileiro de Usuários ...
  - Grupo Mexicano de Usuarios ...
  - > Grupo Peruano de Usuarios d...
  - > North American User Group
  - > UKUsergroup
- > Meetings
- Slack
- IRC
- > Contribution
- > Development
- > Project Teams
- > RoadMap
- > Strategic Planning
- > Archived Pages
- ⚙ Space tools

Dashboard / Home / User Groups

## Ghanaian DSpace User Group

Created by Michele Mennielli, last modified on Jun 12, 2019

This space is thought to make it easy for DSpace users in Ghana to share information about their activities, projects, events and ideas and to make them known to the global DSpace Community. In Ghana there are 14 installations and a vibrant community of users. This page and its sub-pages are the platform to coordinate the collaboration among Ghanaian institutions in order to facilitate discussions on Country specific themes and topics of interest.

- 1. Who is using DSpace in Ghana?
- 2. How to communicate?
  - 2.a. Mailing Lists
    - General and global DSpace lists
    - National Mailing List
  - 2.b. Slack
  - 2.c. Events
    - Webinars
    - In person meetings

### 1. Who is using DSpace in Ghana?

In the Duraspace Registry there are information about the DSpace installations currently running in Ghana. Please take a moment to look for your Institution and check whether the information is correct. If your institution is missing, you can add it here: <https://duraspace.org/registry/register-your-site/>

### 2. How to communicate?

There are numerous ways to get in touch, both at a global level with the general DSpace Community and at the specific country level.

**[A new WIKI space for the Ghanaian DSpace User Group](#)**

**[A new Slack Channel for instant messaging #dspace-gh](#)**

**#dspace-gh**  
 ☆ | 👤 2 | 🗨 0 | Add a topic

---

**About #dspace-gh**

Channel Details

Purpose  
This channel is for the Ghanaian DSpace User Group to allow members of the group to easily share ideas, information, questions and best practices

Created  
Created by you on June 12, 2019

Highlights

Pinned Items

2 Members

- Michele Mennielli (you)
- Richard Bruce Lamptey

Add more people...

Apps

Shared Files

Notification Preferences

**# dspace-gh**

You created this channel on June 12th. This is the very beginning of the # dspace-gh channel.  
 Purpose: This channel is for the Ghanaian DSpace User Group to allow members of the group to easily share ideas, information, questions and best practices (edit)

+ Add an app + Add people to this channel

Wednesday, June 12th

Michele Mennielli 10:17 AM  
joined #dspace-gh.

Michele Mennielli 10:17 AM  
set the channel purpose: This channel is for the Ghanaian DSpace User Group to allow members of the group to easily share ideas, information, questions and best practices

Today

Richard Bruce Lamptey 8:53 AM  
was added to #dspace-gh by Michele Mennielli. Also, Richard Bruce Lamptey joined.

+ | Message #dspace-gh

# Google Scholar Indexing for DSpace Repositories

Monica Westin, Google Scholar  
[mwestin@google.com](mailto:mwestin@google.com)

# Overview

1. How the Google Scholar indexing system works
2. Common repository indexing problems
3. Suggested fixes
4. How to check your repository's coverage in Scholar
5. Resources and troubleshooting guidelines
6. Questions

# How the Google Scholar indexing system works

- Google Scholar crawls the entire web looking for scholarly publications: articles, books, reports, theses, conference proceedings, preprints ...
- The indexing system identifies scholarly content, determines each item's bibliographic metadata, and groups all versions of an item together with this metadata in search results

The screenshot shows a Google Scholar search interface. At the top, the Google Scholar logo is on the left, and a search bar contains the text "Directed complete poset models of T1 spaces" with a magnifying glass icon on the right. Below the search bar, it indicates "Articles" and "2 results (0.03 sec)". On the left side, there is a filter menu with options: "Any time", "Since 2019", "Since 2018", "Since 2015", and "Custom range...". The main search result is titled "Directed complete poset models of  $T_1$  spaces" and is from a PDF at nie.edu.sg. The author is D Zhao, X Xi, and the source is the Proceedings of the Cambridge Philosophical Society, 2018. The abstract describes a poset model of a topological space X and mentions that every  $T_1$  space has a (bounded complete algebraic) poset model. At the bottom of the result, there are icons for a star, a document, and a link, followed by the text "Cited by 1 Related articles All 4 versions". The text "All 4 versions" is circled in red.

Google Scholar

"Directed complete poset models of  $T_1$  spaces"

Articles 2 results (0.03 sec)

Any time  
Since 2019  
Since 2018  
Since 2015  
Custom range...

Directed complete poset models of  $T_1$  spaces [PDF] nie.edu.sg

D Zhao, X Xi - ... Proceedings of the Cambridge Philosophical Society, 2018 - cambridge.org

A poset model of a topological space  $X$  is a poset  $P$  such that the subspace  $\text{Max}(P)$  of the Scott space  $\Sigma P$  is homeomorphic to  $X$ , where  $\text{Max}(P)$  is the set of all maximal points of  $P$ . Every  $T_1$  space has a (bounded complete algebraic) poset model. It was, however, not ...

☆ 97 Cited by 1 Related articles All 4 versions

# We try to make repositories visible worldwide

- For uniquely held items (e.g. dissertations), repository content is the primary link

Primary link →

[THE MITOCHONDRIAL NATURE OF THE DNA REPAIR PROTEIN APE1](#)

[A Barchiesi - 2018 - iris.sissa.it](#)

Mitochondria arose around two billion years ago from the engulfment of an  $\alpha$ -proteobacterium by a precursor of the modern eukaryotic cell 1. Nowadays they are the principal source of energy production and metabolism that are fundamental processes for the survival and wellbeing of the cell. Mitochondria are organelles with a double membrane, the outer (OM) and the inner membrane (IM), and together they delimit two aqueous compartments: the matrix, in the inner side, and the intermembrane space (IMS)(Figure 1).

☆ [🔗](#) [Related articles](#) [All 3 versions](#) [🔗](#)

Showing the best result for this search. [See all results](#)

[\[PDF\] sissa.it](#)

← Access link

- For formally published articles, repository content appears as the access link and/or in “All XX versions”

#### Directed complete poset models of $T_1$ spaces

[D Zhao, X Xi - ... Proceedings of the Cambridge Philosophical Society, 2018 - cambridge.org](#)

A poset model of a topological space  $X$  is a poset  $P$  such that the subspace  $\text{Max}(P)$  of the Scott space  $\Sigma P$  is homeomorphic to  $X$ , where  $\text{Max}(P)$  is the set of all maximal points of  $P$ . Every  $T_1$  space has a (bounded complete algebraic) poset model. It was, however, not known whether every  $T_1$  space has a directed complete poset model and whether every sober  $T_1$  space has a directed complete poset model whose Scott topology is sober. In this paper we give a positive answer to each of these two problems. For each  $T_1$  space  $X$ , we ...

☆ ⓘ Cited by 1 Related articles [All 4 versions](#)

[\[PDF\] nie.edu.sg](#)



All versions

Directed complete poset models of  $T_1$  spaces

D Zhao, X Xi - ... Proceedings of the Cambridge Philosophical Society, 2018 - cambridge.org

A poset model of a topological space  $X$  is a poset  $P$  such that the subspace  $\text{Max}(P)$  of the Scott space  $\Sigma P$  is homeomorphic to  $X$ , where  $\text{Max}(P)$  is the set of all maximal points of  $P$ . Every  $T_1$  space has a (bounded complete algebraic) poset model. It was, however, not ...

☆ Cited by 1 Related articles

← publisher version

Directed complete poset models of  $T_1$  spaces

D Zhao, X Xi - 2018 - repository.nie.edu.sg

A poset model of a topological space  $X$  is a poset  $P$  such that the subspace  $\text{Max}(P)$  of the Scott space  $P$  is homeomorphic to  $X$ , where  $\text{Max}(P)$  is the set of all maximal points of  $P$ . Every  $T_1$  space has a (bounded complete algebraic) poset model. It was, however, not ...

← repository version

[CITATION] Directed complete poset models of  $T_1$  spaces

D Zhao, X Xi - Mathematical Proceedings of the Cambridge ..., 2018 - adsabs.harvard.edu

← citation

Directed complete poset models of  $T_1$  spaces

D ZHAO, X XI - Mathematical Proceedings of the Cambridge ..., 2018 - search.proquest.com

A poset model of a topological space  $X$  is a poset  $P$  such that the subspace  $\text{Max}(P)$  of the Scott space [...]  $P$  is homeomorphic to  $X$ , where  $\text{Max}(P)$  is the set of all maximal points of  $P$ . Every  $T_1$  space has a (bounded complete algebraic) poset model. It was, however, not ...

← aggregator version



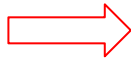
# What Scholar needs for indexing

- Access to crawl the site
- Way to find all urls for articles-- sitemap or browse by date
- Bibliographic information in the form of machine-readable metadata tags (“metatags”), on by default for DSpace repositories past version 1.7

Bibliographic metatags tell the Scholar indexing system what the metadata for a repository item is: title, author, publication date, etc.



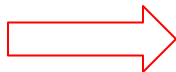
“Citation\_pdf\_url” metatag tells the indexing system which file to associate with this metadata



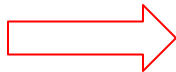
```
<meta name="citation_title" content="The testis isoform of the phosphorylase kinase catalytic subunit (PhK-T) plays a critical role in regulation of glycogen mobilization in developing lung">
<meta name="citation_author" content="Liu, Li">
<meta name="citation_author" content="Rannels, Stephen R.">
<meta name="citation_author" content="Falconieri, Mary">
<meta name="citation_author" content="Phillips, Karen S.">
<meta name="citation_author" content="Wolpert, Ellen B.">
<meta name="citation_author" content="Weaver, Timothy E.">
<meta name="citation_publication_date" content="1996/05/17">
<meta name="citation_journal_title" content="Journal of Biological Chemistry">
<meta name="citation_volume" content="271">
<meta name="citation_issue" content="20">
<meta name="citation_firstpage" content="11761">
<meta name="citation_lastpage" content="11766">
<meta name="citation_pdf_url"
content="http://www.example.com/content/271/20/11761.full.pdf">
```

# View source code from repository item page to view metatags

Right click or keyboard command to “View Page Source,” depending on your browser



Search HTML source for “citation\_” to view metatags



The screenshot shows the ISPA repository page for the article 'Adaptação e estudo da escala de valor da saúde'. The page includes the ISPA logo, a search bar, and a navigation breadcrumb. A grey box prompts the user to use the identifier <http://hdl.handle.net/10400.12/1089>. The article details are as follows:

- Title:** Adaptação e estudo da escala de valor da saúde
- Author:** Pimenta, Filipa; Leal, Isabel Pereira; Maroco, João
- Keywords:** Valor Saúde; Fumadores; Ex-fumadores; Escala; Value; Health; Smokers; Ex-smokers; Scale
- Issue Date:** 2009
- Publisher:** Sociedade Portuguesa de Psicologia da Saúde
- Citation:** Psicologia, Saúde & Doenças, 10 (2), 217-225
- Abstract:** O presente estudo pretende averiguar se pessoas com diferentes comportamentos de consumo de tabaco valorizam a sua saúde da forma discrepante; é igualmente objectivo desta investigação adaptar a Escala de Valor da Saúde (Lau, Hartman, & Ware, 1986) à população Portuguesa. Para tal aplicou-se o instrumento a uma amostra de 380 estudantes universitários (fumadores regulares, ocasionais e ex-fumadores). Os resultados demonstram que pessoas com diferentes padrões de consumo tabágico atribuem um valor elevado à sua saúde, não existindo diferenças significativas entre os três grupos (F=1,594; p=0,205). O estudo das características psicométricas do instrumento, já utilizado em estudos anteriores, salienta que, numa amostra de 380 alunos do ensino superior, esta escala não é adequada para medir a variável em questão. ---- ABSTRACT ---- The aim of the present study is to analyse if people with diverse smoking patterns value their health differently. It is also an objective of this research to adapt the Health Value Scale (Lau, Hartman, & Ware, 1986) to the Portuguese population. A sample of 380 college students (regular and occasional smokers, and ex-smokers) has filled this instrument. The results show that people with different smoking patterns attribute a high value to their health and that there are no significant differences between the three groups (F=1,594; p=0,205). The study of the psychometric characteristics of the scale, which has been used in previous studies, evidence that, in a sample of 380 college students, this instrument is not adequate to measure the variable health value.

```
→ view-source:http://repositorio.ispa.pt/handle/10400.12/1089

<meta name="citation_author" content="Pimenta, Filipa" />
<meta name="citation_author" content="Leal, Isabel Pereira" />
<meta name="citation_author" content="Maroco, João" />
<meta name="citation_issn" content="1645-0086" />
<meta name="citation_journal_title" content="Psicologia, Saúde & Doenças" />
<meta name="citation_date" content="2009" />
<meta name="citation_abstract_html_url" content="https://repositorio.ispa.pt/handle/10400.12/1089" />
<meta name="citation_lastpage" content="225" />
<meta name="citation_language" content="por" />
<meta name="citation_pdf_url" content="https://repositorio.ispa.pt/bitstream/10400.12/1089/1/PSD%202009%2010%282%29%20217-225.pdf" />
<meta name="citation_keywords" content="Valor; Saúde; Fumadores; Ex-fumadores; Escala; Value; Health; Smokers; Ex-smokers; Scale; article" />
<meta name="citation_publisher" content="Sociedade Portuguesa de Psicologia da Saúde" />
<meta name="citation_title" content="Adaptação e estudo da escala de valor da saúde" />
```

# Metatags should match the version of record:

PSICOLOGIA, SAÚDE & DOENÇAS, 2009, 10 (2), 217-225

## ADAPTAÇÃO E ESTUDO DA ESCALA DE VALOR DA SAÚDE

Filipa Pimenta<sup>1</sup>, Isabel Leal<sup>1,2</sup> & João Maroco<sup>1,2</sup>

<sup>1</sup>Unidade de Investigação em Psicologia e Saúde, I&D

<sup>2</sup> ISPA

**RESUMO:** O presente estudo pretende averiguar se pessoas com diferentes comportamentos de consumo de tabaco valorizam a sua saúde de forma discrepante; é igualmente objectivo desta investigação adaptar a Escala de Valor da Saúde (Lau, Hartman, & Ware, 1986) à população Portuguesa. Para tal aplicou-se o instrumento a uma amostra de 380 estudantes universitários (fumadores regulares, ocasionais e ex-fumadores). Os resultados demonstram que pessoas com diferentes padrões de consumo tabágico atribuem um valor elevado à sua saúde, não existindo diferenças significativas entre os três grupos ( $F=1,594$ ;  $p=0,205$ ). O estudo das características psicométricas do

→ [view-source:http://repositorio.ispa.pt/handle/10400.12/1089](http://repositorio.ispa.pt/handle/10400.12/1089)

```
<meta name="citation_author" content="Pimenta, Filipa" />
<meta name="citation_author" content="Leal, Isabel Pereira" />
<meta name="citation_author" content="Maroco, João" />
<meta name="citation_issn" content="1645-0086" />
<meta name="citation_journal_title" content="Psicologia, Saúde & Doenças" />
<meta name="citation_date" content="2009" />
<meta name="citation_abstract_html_url" content="https://repositorio.ispa.pt/handle/10400.12/1089" />
<meta name="citation_lastpage" content="225" />
<meta name="citation_language" content="por" />
<meta name="citation_pdf_url" content="https://repositorio.ispa.pt/bitstream/10400.12/1089/1/PSD%202009%2010%282%29%20217-225.pdf" />
<meta name="citation_keywords" content="Valor; Saúde; Fumadores; Ex-fumadores; Escala; Value; Health; Smokers; Ex-smokers; Scale; article" />
<meta name="citation_publisher" content="Sociedade Portuguesa de Psicologia da Saúde" />
<meta name="citation_title" content="Adaptação e estudo da escala de valor da saúde" />
```

# Repository indexing errors

- Commonly: Incorrect bibliographic metatags
  - Sites with widespread metadata errors can't be indexed
- Occasionally: Site outages that occur while the indexing system is looking for publications in your repository
- Occasionally: crawler issues, including blocking the Googlebot crawler, slow responsiveness or errors to crawlers, or limiting the crawl speed.

# Incorrect publication dates in citation\_date metatag

- Occurs most commonly when upload/online date is given as publication date when no publication date exists, often via batch uploads, e.g.
  - `<meta name="citation_date" content="2014"/>`

versus publication date in version of record:

PSICOLOGIA, SAÚDE & DOENÇAS, 2009, 10 (2), 217-225

## **ADAPTAÇÃO E ESTUDO DA ESCALA DE VALOR DA SAÚDE**

Filipa Pimenta<sup>1</sup>, Isabel Leal<sup>1,2</sup> & João Maroco<sup>1,2</sup>

<sup>1</sup>Unidade de Investigação em Psicologia e Saúde, I&D

<sup>2</sup> ISPA

## **Fix:** Incorrect publication dates in citation\_date metatag

- Test by comparing date citation\_date tag with date in the version of record. If date listed in citation\_date tag is later than the version of record, likely online date is being used as publication date.
- Fix: patch for DSpace repositories available at <https://github.com/DSpace/DSpace/pull/2294.patch>
  - More information here: <https://jira.duraspace.org/browse/DS-4104>

# Incorrect author order in citation\_author metatags

- Occurs when the author metatags are listed out of order in the source code, e.g.

- `<meta name="citation_author" content="Leal, Isabel" />`
- `<meta name="citation_author" content="Pimenta, Filipa" />`
- `<meta name="citation_author" content="Maroco, João" />`

versus author order in version of record:

**Filipa Pimenta<sup>1</sup>, Isabel Leal<sup>1,2</sup> & João Maroco<sup>1,2</sup>**

## Fix: Incorrect author order in citation\_author metatags

- Fix: If using DSpace versions 5.0, 5.1, 5.2, and 5.3, patch for DSpace repositories available at <https://github.com/DSpace/DSpace/pull/999>
  - More information here: <https://jira.duraspace.org/browse/DS-2679>
  - Upgrading to DSpace v5.4 or above will also fix this problem
- Fix: Adjust author metatag order to match author order in the version of record
  - `<meta name="citation_author" content="Pimenta, Filipa" />`
  - `<meta name="citation_author" content="Leal, Isabel" />`
  - `<meta name="citation_author" content="Maroco, João" />`

Filipa Pimenta<sup>1</sup>, Isabel Leal<sup>1,2</sup> & João Maroco<sup>1,2</sup>



# Missing authors in metatags

- Most commonly only including authors from institution or only listing the first author of a publication, e.g.

- `<meta name="citation_author" content="Leal, Isabel" />`

vs. Filipa Pimenta<sup>1</sup>, Isabel Leal<sup>1,2</sup> & João Maroco<sup>1,2</sup>

- Fix: Include all authors listed in the version of record in author metatags, not just authors from your own institution. (And again, list authors in the order that they appear in the published version.)

# Too many authors in metatags

- Most commonly listing the advisor as an author for a thesis/dissertation, e.g.
  - `<meta name="citation_title" content="Jungian approaches to underwater basketweaving"/>`
  - `<meta name="citation_author" content="Sara Student"/>`
  - `<meta name="citation_author" content="Professor Patricia"/>`
- Fix: Only include one author of a thesis or dissertation in author metatag— the student who wrote it
  - `<meta name="citation_title" content="Jungian approaches to underwater basketweaving"/>`
  - `<meta name="citation_author" content="Sara Student"/>`

# Trailing information in metatags

- Most commonly repository name or article type appended to title metatag, e.g.
  - `<meta name="citation_title" content="Jungian approaches to underwater basketweaving Northern California College Repository"/>`
  - `<meta name="citation_title" content="Jungian approaches to underwater basketweaving Thesis" />`
- Fix: (1) Avoid adding any elements other than article bibliographic information, (2) Remove non-bibliographic information from metatags
  - `<meta name="citation_title" content="Jungian approaches to underwater basketweaving" />`

# Multilinguals in metatags

- Combining different scripts in metatags results in mixed bibliographic information that prevents the item from being ranked in Scholar search results – and is misleading for users
- ex: including the translated version of the title in title metatags, e.g.
  - `<meta name="citation_title" content="War and Peace == Война и мир" />`
- ex: listing authors in native script of home institution when it is not the language in which the article was written, e.g.
  - `<meta name="citation_author" content="Толстой, Лев Николаевич " />`
  - `<meta name="citation_author" content="Tolstoy, Lev Nikolayevich " />`

# Fix: Multilinguals in metatags

- Fix: use the language of the full text/abstract for all metatags. Don't duplicate metatag information in multiple scripts

Л. Толстой. «Война и мир».

## Часть 1

*Прочитайте приведенный ниже фрагмент текста и выполните задания В1-В7; С1-С2.*

Вследствие этого страшного гула, шума, потребности внимания и деятельности, Тушин не испытывал ни малейшего неприятного чувства страха, и мысль, что его могут убить или больно ранить, не приходила ему в голову. Напротив, ему становилось все веселее и веселее. Ему казалось, что уже очень давно, едва ли не вчера, была та минута, когда он увидел неприятеля и сделал первый выстрел, и что клочок поля, на котором он стоял, был ему давно знакомым, родственным местом. Несмотря на то, что он все помнил, все соображал, все делал, что мог делать самый лучший офицер в его положении, он находился в состоянии, похожем на лихорадочный бред или на состояние пьяного человека.

Из-за оглушающих со всех сторон звуков своих орудий, из-за свиста и ударов снарядов неприятеля, из-за вида вспотевшей, раскрасневшейся, торопящейся около орудий прислуги, из-за вида крови людей и лошадей, из-за вида дымков неприятеля на той стороне (после которых всякий раз прилетало ядро и било в землю, в человека, в орудие или в лошадь), — из-за вида этих предметов у него в голове установился свой фантастический мир, который составлял его наслаждение в эту минуту.

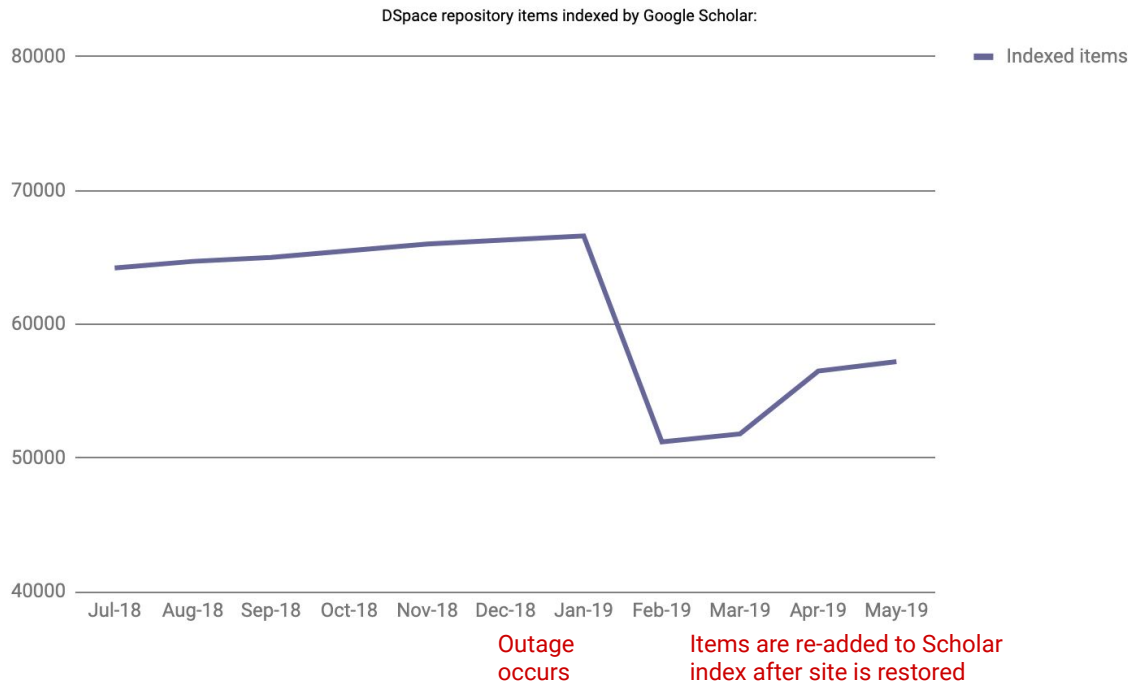
```
<meta name="citation_title" content="Война и мир" />
```

```
<meta name="citation_author" content="Толстой, Лев  
Николаевич" />
```

# Site outages

- Outages result in dead pages in search results
- Extended or repeated site outages obstruct the indexing system's crawler from finding the items in your repository
- Extended outages can also result in the site dropping out of the index
- **Fix:** Don't keep your repository site down for extended periods of time, e.g. multiple days
- **Fix:** If you are migrating to a new site, keep the old site functional while developing the new version. When the new version is ready, change DNS lookup from the old server to the new one.

# Example: site outage for large DSpace repository in Europe



## Other repository errors

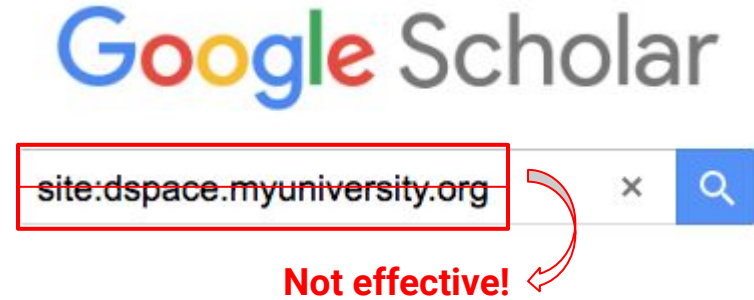
- Occasionally crawler access is blocked by other site configurations
  - **Fix:** Keep default crawler settings for DSpace sites
- Repository moved without redirects, or items renumbered without redirects.
  - **Fix:** Set up redirects whenever URLs for publications in the repository change.
- Adding an interstitial for accessing fulltext
  - **Fix:** Skip interstitials for users clicking on search results
- Adding a cover page to fulltext articles
  - **Fix:** Host PDFs articles as-is



# How to do a Scholar coverage check for your repository:

## What **doesn't** work

- The result count of searching your repository site (“site:XXX”) is not an accurate indicator of Scholar coverage
- This is because the number listed in Scholar search results for a site only applies to the primary links – and as described earlier, the repository content is often not the primary link (in “All XX versions”)



# How to do a coverage check for your repository: what **does** work

- Search in Scholar for titles of several dozen **randomly** selected items across the repository and see if these papers are included
- Be sure to check the “All XXX versions” link as well, as often the repository version will not be the primary link

Google Scholar "3D sound scattering by rigid barriers in the vicinity of tall buildings"

Articles

Any time  
Since 2019  
Since 2018  
Since 2015  
Custom range...

Sort by relevance  
Sort by date

[3D sound scattering by rigid barriers in the vicinity of tall buildings](#)  
[L Godinho, J António, A Tadeu](#) - Applied Acoustics, 2001 - Elsevier  
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# Google Scholar guidelines and resources for repositories

1. Google Scholar inclusion guidelines & troubleshooting guidelines

<https://scholar.google.com/intl/en/scholar/inclusion.html#indexing>

<https://scholar.google.com/intl/en/scholar/inclusion.html#troubleshooting>

2. “Indexing Repositories: Pitfalls & Best Practices” presentation from 2015 Open Repositories conference

<https://www.or2015.net/wp-content/uploads/2015/06/or-2015-anurag-google-scholar.pdf>

## 3. Additional resources for your country

Thank you for joining us!  
Questions?