DSpace and Google Scholar Webinar for Uganda







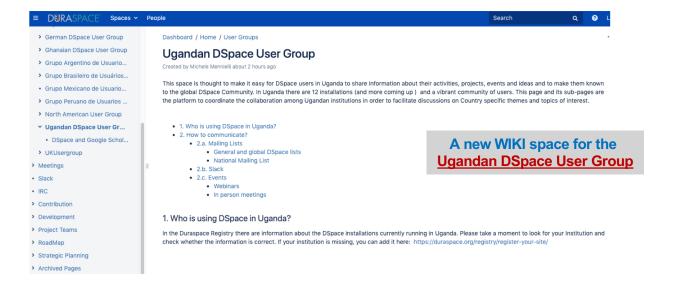
(Monica Westin)



(Iryna Kuchma)



(David Bukenya)



#dspace-ug

☆ | & 1 | ♀ 0 | Ø Add a topic





⑤ ⑥ Ø Q Search

Google Scholar Indexing for DSpace Repositories

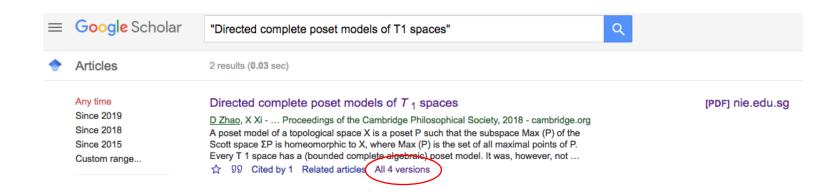
Monica Westin, Google Scholar mwestin@google.com

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



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 α-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).

☆ 99 Related articles All 3 versions №

[PDF] sissa.it ← Access link

Showing the best result for this search. See all results

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

Directed complete poset models of T₁ spaces

<u>D Zhao</u>, 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 Max (P) of the Scott space ΣP is homeomorphic to X, where 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 ...

☆ 55 Cited by 1 Related articles All 4 versions

[PDF] nie.edu.sg



Articles

4 results (0.04 sec)

All versions

Directed complete poset models of T₁ 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 Max (P) of the Scott space ΣP is homeomorphic to X, where 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 ...

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Directed complete poset models of T1 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 Max (P) of the Scott space P is homeomorphic to X, where Max (P) is the set of all maximal points of P. Every T1 space has a (bounded complete algebraic) poset model. It was, however, not ...

99

[CITATION] Directed complete poset models of T 1 spaces

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

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 Max (P) of the Scott space [...] P is homeomorphic to X, where 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 ...

← publisher version

← repository version

← citation

← 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"</pre>
   content="http://www.example.com/content/271/20/11761.full.pdf">
```

View source code from repository item page to view metatags

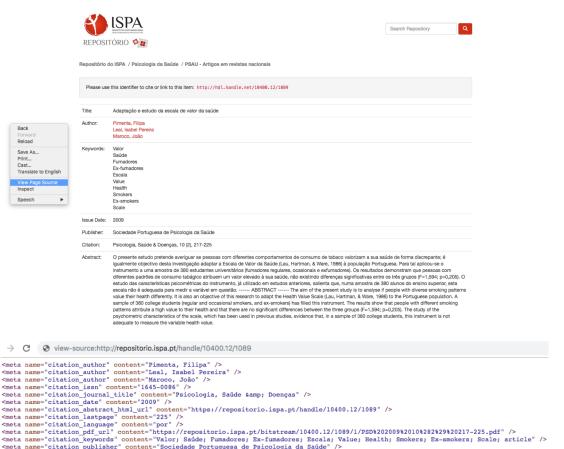
<meta name="citation title" content="Adaptação e estudo da escala de valor da saúde" />

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



Search
HTML source
for "citation_"
to view
metatags





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 Pimenta¹, Isabel Leal^{1,2} & João Maroco^{1,2}

¹Unidade de Investigação em Psicologia e Saúde, I&D

² 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 exfumadores). 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

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 Pimenta¹, Isabel Leal^{1,2} & João Maroco^{1,2}
¹Unidade de Investigação em Psicologia e Saúde, I&D
² 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 Pimenta¹, Isabel Leal^{1,2} & João Maroco^{1,2}

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 Pimenta¹, Isabel Leal^{1,2} & João Maroco^{1,2}

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 Pimenta¹, Isabel Leal^{1,2} & João Maroco^{1,2}

- 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" />

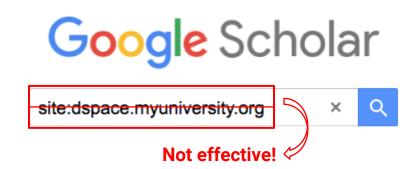
<meta name="citation_author" content="Толстой, Лев Николаевич " />

Other repository errors

- Extended or repeated site outages blocks the indexing system's crawler and results in search results leading users to the wrong pages
 - Fix: Don't keep site down for extended periods of time, e.g. multiple days
- 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

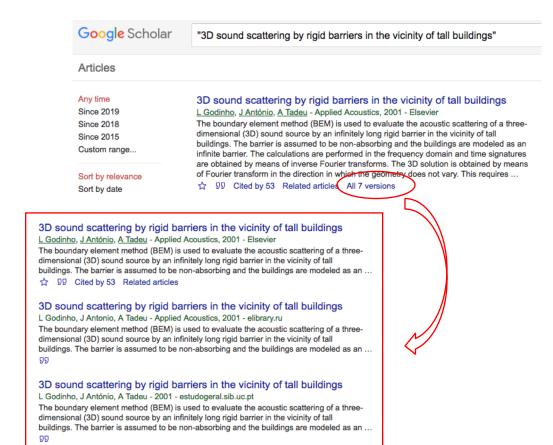
How to do a Scholar coverage check for your repository: What **doesn't** work

- 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 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

"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?