



The Challenges of Incorporating Grey Literature into a Scholarly Publishing Platform

A study in Requirements Gathering

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GeoScienceWorld Background

- Established 2004
 - aim: bring together society led, peer-review, content on a single online platform
- 47 journals, 2100+ ebooks, GeoRef
- in 15 years, returned more than \$38m to societies through royalties to help fund research



The Project

Opportunity to acquire large dataset that includes about 30% “grey literature”, mostly meeting abstracts.

Challenges:

- preparing the content
- impact on search functionality
- need for new purchase models to support business



Preparing the Content

- Absence of industry standard DTD for grey literature
- Each content type requires custom DTD and XSLT
- Not possible to load all content through platform tools
- Incomplete metadata presents multiple challenges
- Need to understand content before moving on to implementation



Implications for Search

GeoScienceWorld Journals Books GeoRef Publishers OpenGeoSci Citation Manager Help Sign In

Search... All Content

Advanced Search

1-20 OF 14095 RESULTS FOR **gneiss**

[View Results on Map](#) Save search [Share Search](#) Sort by **Relevance**

1 2 3 4 5 Next >

JOURNAL ARTICLE

Detection of a weak late-stage deformation event in granitic **gneiss** through anisotropy of magnetic susceptibility: implications for tectonic evolution of the Bomdila **Gneiss** in the Arunachal Lesser Himalaya, Northeast India

Journal: Geological Magazine
Publisher: Cambridge University Press
 Published: 11 April 2016
 Geological Magazine (2016) 154 (3): 476-490.
 DOI: <https://doi.org/10.1017/S0016756816000133>

...R. K. BIKRAMADITYA SINGH; A. KRISHNAKANTA SINGH; KOUSHIK SEN; S. J. SANGODE Abstract Outcrop-scale structures and magnetic fabric anisotropy of the Bomdila **Gneiss** (BG) that intruded the Lesser Himalayan Crystallines (LHC) of the Arunachal Lesser Himalaya are studied to understand the BG deformation...

FIGURES | [View All \(9\)](#)

Additional search facet here

Indicate peer review status of content here.



Implications for Search

- Need to indicate “grey” nature of the content through the XML
- Modify SOLR core to support new metadata fields
- Graphic indicator of peer-review status
 - no accepted industry best practice
- Co-mingle grey and peer-review content, give user more options
- Additional facets to narrow search results
- Web best practice = do not impede discovery



New Business Models

- Primary audience: corporate/consultancy
- Subscription model not applicable to target audience
- Prefers ability to bulk purchase desired content
- Modify store checkout workflow
- Tokenised purchasing
- Longer term, looking to tie purchasing into TDM tools, with ability to purchase PDF and/or XML



Conclusion

- All migrations are challenging
- Migration of grey literature has additional challenges and more unknowns
- Uncover more unknowns as project progresses
- Agile development best suited to such projects
- Requirements gathering as a process is vital
- Implementation changes everything
 - and that's ok!