

Documents

Osman, R.^{a b}, Yanti Idaya, A.M.K.^a, Abrizah, A.^a

Metadata matters: evaluating the quality of Electronic Theses and Dissertations (ETDs) descriptions in Malaysian institutional repositories

(2023) *Malaysian Journal of Library and Information Science*, 28 (1), pp. 109-125.

DOI: 10.22452/mjlis.vol28no1.7

^a Department of Library and Information Science, Faculty of Arts and Social Sciences, Universiti Malaya, Kuala Lumpur, Malaysia

^b Dar al-Hikmah Library, International Islamic Universiti Malaysia, Kuala Lumpur, Malaysia

Abstract

This study investigates the quality of metadata records in institutional repositories for Electronic Theses and Dissertations (ETDs) in three Malaysian research universities. The study employs metrics derived from Bruce and Hillmann (2004) to evaluate the completeness, accuracy, and consistency of 1138 metadata records from the three institutional repositories, and utilizes quantitative content analysis to identify variants of Dublin Core metadata elements used to describe ETDs. The study uncovers a range of issues with metadata completeness, accuracy, and consistency, emphasizing the need for standardized systems to ensure quality metadata. By highlighting the importance of quality metadata for ETD collections, the study provides valuable insights for academic libraries in designing and describing ETD collections. Overall, this study sheds light on the current metadata practices and elements used in ETD collections, and underscores the significance of effective metadata management for the dissemination and discoverability of scholarly works © 2023, Malaysian Journal of Library and Information Science. All Rights Reserved.

Author Keywords

Dublin Core metadata schema; Electronic Theses and Dissertations; Institutional repositories; Metadata quality; Quality assessment

References

- Aissi, S., Sboui, T.
Towards evaluating geospatial metadata quality in the context of VGI
(2017) *Procedia Computer Science*, 109, pp. 686-691.
- Al-Khalifa, H.S., Davis, H.C.
The evolution of metadata from standards to semantics in e-learning applications
(2006) *Proceedings of the Seventeenth Conference on Hypertext and Hypermedia*, pp. 69-72.
Odense, Denmark, New York, NY: Association for Computing Machinery
- Bellini, E., Nesi, P.
Metadata quality assessment tool for open access cultural heritage institutional repositories
(2013) *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* 7990 LNCS, pp. 90-103.
- Bruce, T. R., Hillmann, D. I.
Metadata in practice
(2004) *The Continuum of Metadata Quality: Defining, Expressing, Exploiting*, pp. 238-236.
Chicago: American Library Association
- Bui, Y., Park, J.R.
An assessment of metadata quality: a case study of the National Science Digital Library metadata repository
(2013) *Proceedings of Information Science Revisited Approaches to Innovation / Actes Du congrès Annuel De l'ACSI*, pp. 1-13.

- Chuttur, M.Y.
Investigating the effect of definitions and best practice guidelines on errors in Dublin Core metadata records
(2014) *Journal of Information Science*, 40 (1), pp. 28-37.
- Currier, S., Barton, J., O'Beirne, R., Ryan, B.
Quality assurance for digital learning object repositories: issues for the metadata creation process
(2004) *ALT-J Research in Learning Technology*, 12 (1), pp. 5-20.
- Downe-Wamboldt, B.
Content analysis: method, applications, and issues
(1992) *Health Care for Women International*, 13 (3), pp. 313-321.
Kenfield, A.S. 2019. Metadata documentation practices at ARL institutional repositories
- *Portal: Libraries and the Academy*, 19 (4), pp. 667-699.
- Krejcie, R. V., Morgan, D.W.
Determining sample size for research activities
(1970) *Educational and Psychological Measurement*, 30, pp. 607-610.
- Mayernik, M.S.
Metadata accounts: achieving data and evidence in scientific research
(2019) *Social Studies of Science*, 49 (5), pp. 732-757.
- McClelland, M., McArthur, D., Giersch, S., Geisler, G.
Challenges for service providers when importing metadata in digital libraries
(2002) *D-Lib Magazine*, 8 (4).
- Mering, M.
Transforming the quality of metadata in institutional repositories
(2019) *Serials Librarian*, 76 (1-4), pp. 79-82.
- Moen, W.E., Stewart, E.L., McClure, C.R.
Assessing metadata quality: findings and methodological considerations from an evaluation of the US Government Information Locator Service (GILS)
(1998) *Proceedings IEEE International Forum on Research and Technology Advances in Digital Libraries -ADL'98-*, pp. 246-255.
- Moen, W.E., Stewart, E.L., McClure, C.R.
The role of content analysis in evaluating metadata for the US Government Information Locator Service (GILS): results from an exploratory study
(1997) *IEEE Computer Society Metadata Conference*, pp. 1-14.
New York, NY: IEEE
- Palavitsinis, N., Manouselis, N., Sanchez-Alonso, S.
Metadata quality in learning object repositories: a case study
(2014) *Electronic Library*, 32 (1), pp. 62-82.
- Park, E.G., Richard, M.
Metadata assessment in E-Theses and Dissertations of Canadian institutional repositories
(2011) *Electronic Library*, 29 (3), pp. 394-407.
- Park, J.R.
Metadata quality in digital repositories: a survey of the current state of the art
(2009) *Cataloging & Classification Quarterly*, 47 (3-4), pp. 213-228.
- Park, J.R., Tosaka, Y.
Metadata quality control in digital repositories and collections: criteria, semantics,

and mechanisms

(2010) *Cataloging and Classification Quarterly*, 48 (8), pp. 696-715.

- Pelaez, R.
Metadata quality assessment metrics into OCW repositories
(2017) *ICETC 2017: Proceedings of the 2017 9th International Conference on Education Technology and Computers*, pp. 253-257.
- Ramdas Lihitkar, S., Lihitkar, R.S.
Electronic Theses and Dissertations (ETDs) in India: a comparative study
(2014) *Library Hi Tech News*, 31 (2), pp. 9-14.
- (2018) *Random Integer Generator*,
Random.Org
- Reiche, K.J., Höfig, E.
Implementation of metadata quality metrics and application on public government data
(2013) *IEEE 37th Annual Computer Software and Applications Conference Workshops*, pp. 236-241.
Japan
- Romero-Pelaez, A., Segarra-Faggioni, V., Alarcon, P.P.
Exploring the provenance and accuracy as metadata quality metrics in assessment resources of OCW repositories
(2018) *ACM International Conference Proceeding Series*, pp. 292-296.
- Sharifah Nur Amirah, S.A.
(2017) *Conceptions and practices of metadata quality for FRBR user tasks resources discovery in institutional repositories*,
[Unpublished Doctoral Thesis, International Islamic University Malaysia]. IIUM Repository (IRep)
- Steele, T., Sump-Crethar, N.
Metadata for Electronic Theses and Dissertations: a survey of institutional repositories
(2016) *Journal of Library Metadata*, 16 (1), pp. 53-68.
- Weagley, J., Gelches, E., Park, J.R.
Interoperability and metadata quality in digital video repositories: a study of Dublin Core
(2010) *Journal of Library Metadata*, 10 (1), pp. 37-57.
- Wilson, A. J.
Toward releasing the metadata bottleneck: a baseline evaluation of contributor-supplied metadata
(2007) *Library Resources & Technical Services*, 51 (1), pp. 16-28.
- Yasser, C.M.
An analysis of problems in metadata records
(2011) *Journal of Library Metadata*, 11 (2), pp. 51-62.
- Yasser, C.M.
An experimental study of metadata training effectiveness on errors in metadata records
(2012) *Journal of Library Metadata*, 12 (4), pp. 372-395.
- Zavalin, V., Zavalina, O.L., Miksa, S.D.
Exploration of subject representation and support of linked data in recently created library metadata: examination of most widely held WorldCat bibliographic records
(2021) *Library Resources & Technical Services*, 65 (4), pp. 154-167.

Correspondence Address

Yanti Idaya A.M.K.; Department of Library and Information Science, Malaysia; email: yanti@um.edu.my

Publisher: Faculty of Computer Science and Information Technology

ISSN: 13946234

Language of Original Document: English

Abbreviated Source Title: Malays. J. Libr. Inf. Sci.

2-s2.0-85159795366

Document Type: Article

Publication Stage: Final

Source: Scopus

ELSEVIER

Copyright © 2024 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

 **RELX Group™**