

Towards Semantic Recommendation of Biodiversity Datasets based on Linked Open Data

Submitted by [bahar](#) [1] on Thu, 2014-10-23 10:07

- [Biodiversity](#) [2]
- [Linked Open Data](#) [3]
- [Linked Open Data](#) [4]
- [natural language processing](#) [5]
- [Recommender Systems](#) [6]
- [Semantic Web](#) [7]
- [Bioinformatics](#) [8]
- [Text Mining](#) [9]

Title	Towards Semantic Recommendation of Biodiversity Datasets based on Linked Open Data
Publication Type	Conference Paper
Year of Publication	2014
Refereed Designation	Refereed
Authors	Löffler, F. [10], B. Sateli [11], R. Witte [12], and B. König-Ries [13]
Editors	Specht, G. [14], H. Gamper [15], and F. Klan [16]
Conference Name	The 26th GI-Workshop on Foundations of Databases (Grundlagen von Datenbanken)
Tertiary Title	CEUR Workshop Proceedings
Volume	1313
Pagination	65–70
Date Published	10/2014
Publisher	CEUR-WS.org
Conference Location	Bozen, Italy
Keywords	Biodiversity [17], Linked Open Data [18], natural language processing [19], Recommender Systems [20], Semantic Web [21]
Abstract	Conventional content-based filtering methods recommend documents based on extracted keywords. They calculate the similarity between keywords and user interests and return a list of matching documents. In the long run, this approach often leads to overspecialization and fewer new entries with respect to a user's preferences. Here, we propose a semantic recommender system using Linked Open Data for the user profile and adding semantic annotations to the index. Linked Open Data allows recommendations beyond the content domain and supports the detection of new information. One research area with a strong need for the discovery of new information is biodiversity. Due to their heterogeneity, the exploration of biodiversity data requires interdisciplinary collaboration. Personalization, in particular in recommender systems, can help to link the individual disciplines in bio- diversity research and to discover relevant documents and datasets from various sources. We developed a first prototype for our semantic recommender system in this field, where a multitude of existing vocabularies facilitate our approach.

URL http://ceur-ws.org/Vol-1313/paper_12.pdf [22]

Copyright

Copyright © 2014 by the paper's authors. Copying permitted only for private and academic purposes.

Attachment

[Loeffler_GvDB2014.pdf](#) [23]

Size

1.68 MB



Except where otherwise noted, all original content on this site is copyright by its author and licensed under a [Creative Commons Attribution-Share Alike 2.5 Canada License](#).

Source URL (retrieved on 2025-12-22 07:27):

<https://www.semanticsoftware.info/biblio/towards-semantic-recommendation-biodiversity-datasets-based-linked-open-data>

Links:

- [1] <https://www.semanticsoftware.info/users/bahar>
- [2] <https://www.semanticsoftware.info/category/blog-tags/biodiversity>
- [3] <https://www.semanticsoftware.info/category/blog-tags/linked-open-data>
- [4] <https://www.semanticsoftware.info/taxonomy/term/418>
- [5] <https://www.semanticsoftware.info/category/blog-tags/natural-language-processing>
- [6] <https://www.semanticsoftware.info/category/blog-tags/recommender-systems>
- [7] <https://www.semanticsoftware.info/category/blog-tags/semantic-web>
- [8] <https://www.semanticsoftware.info/category/topic/bioinformatics>
- [9] <https://www.semanticsoftware.info/category/topic/text-mining>
- [10] <https://www.semanticsoftware.info/biblio/author/134>
- [11] <https://www.semanticsoftware.info/biblio/author/73>
- [12] <https://www.semanticsoftware.info/biblio/author/1>
- [13] <https://www.semanticsoftware.info/biblio/author/126>
- [14] <https://www.semanticsoftware.info/biblio/author/158>
- [15] <https://www.semanticsoftware.info/biblio/author/159>
- [16] <https://www.semanticsoftware.info/biblio/author/160>
- [17] <https://www.semanticsoftware.info/biblio/keyword/101>
- [18] <https://www.semanticsoftware.info/biblio/keyword/103>
- [19] <https://www.semanticsoftware.info/biblio/keyword/16>
- [20] <https://www.semanticsoftware.info/biblio/keyword/102>
- [21] <https://www.semanticsoftware.info/biblio/keyword/2>
- [22] http://ceur-ws.org/Vol-1313/paper_12.pdf
- [23] https://www.semanticsoftware.info/system/files/Loeffler_GvDB2014.pdf