Linked Data Literature Reviews *

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ABSTRACT

TODO
TODO: See http://dl.acm.org/ccs.cfm

Keywords

ACM proceedings; RDF; Linked Data; literature reviews; scholarly communication

1. INTRODUCTION

TODO: Reference RDF[1].

2. LINKED DATA BIBLIOGRAPHIC ENTRIES

TODO: See the The OpenCitations project, and look carefully at their use of the SPAR Ontologies according to the OCC metadata document. ARE THEY SUFFICIENT TO REPRESENT ALL BIBLIOGRAPHIC ELEMENTS? From BibTex:

- Cite key
- Authors
- Order of authors
- Title
- Book title
- Publisher
- Year
- Editor
- Volume
- Number
- Series
- Type
- Chapter
- Pages
- Address
- Edition
- Month
- Keywords

3. DESCRIBING LITERATURE REVIEWS

TODO: How to make a scientific statement? A data model of a scientific statement might include:

- An identifer (a URI or blank node)
- A statement (as a string?)

TODO: Define a vocabulary for describing a literature review.

- supportedBy
- contradictedBy
- questionedBy
- methodUsed (e.g. survey, fMRI)
- a status (as a controlled SKOS vocabulary, e.g. Law, Theory, Hypothesis), 0-1
- relatedToEntity (a URI to a physical (e.g. hypothalamus) or virtual entity (e.g. PURL) used in the statement.), *
- relatedToAction (a URI to an action or maybe a controlled vocabulary, e.g. measured, found, utilized)

4. SAMPLE LITERATURE REVIEWS

TODO: Provide both a "hello, world" simple example, and a more complex one.

5. SHARING AND REUSING

TODO: Share by publishing. Is there a better way to aggregate, change, allow changes/prevent forks?

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*Comments or suggestions may be made to this paper via git pull request at TODO: `w3id.org` PURL

6. EVALUATION BY QUERY

TODO: Maybe suggest some SPARQL queries that could be used on the data model to identify scientific statements that come under doubt (e.g. fMRI software bug - might use as example).

7. CONCLUSIONS AND FURTHER WORK

TODO

8. TODO: TEMPORARY BIBLIOGRAPHY

- RDF Concepts and Abstract Syntax

- The OpenCitations project (http://opencitations.net)

- OpenCitations papers at http://rawgit.com/essepuntato/opencitations/master/paper/occ-lisc2016.html

- Books used for examples:
    - Scientific Teaching
    - Neuroscience textbook

9. ACKNOWLEDGMENTS

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10. REFERENCES

[1] R. Cyganiak, D. Wood, and M. Lanthaler. Rdf 1.1 concepts and abstract syntax. *W3C Recommendation*, 25:1–8, 2014.