

TU Wien

Publishing TUWien Data as Linked Open Data

subtitle

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1 Abstract

Research questions RQ: How can LD help to improve processes at TUWien? How can LD be successfully applied in the context of TUWien?

- RQ1: What are best practices for the use of LOD in university settings in general?
- RQ2: Benefits of LOD? How can the stakeholders profit? What are interesting use-cases for each target group?
- RQ3: What are major challenges for implementing an LOD solution? Costs (time, personnel) of LOD solution?
- RQ4: What would a prototypical implementation of LOD at TUWien look like? Are there LD sources available and how to use them? What are the major technical challenges to consider?

2 Introduction

- Context - OD, LOD
- problem - universities need better understanding to move to LOD
- research questions and objectives - see RQ, RQ1-4 above
- methodology - see above
- main contributions
- paper structure

3 Related work (4-5p)

3.1 Linked Universities*

- What it is and what is the idea behind
- Goals and vision
- Challenges and Limitations
- Participating universities and members

3.2 Austrian Open Data*

3.3 Linked Data in libraries

3.4 Earlier studies*

- Interlinking educational Resources and the Web of Data - a Survey of Challenges and Approaches (<http://linkeduniversities.org/>)
- a few more at <http://linkeduniversities.org/lu/index.php/publications/index.html>

4 Benefits and challenges of using LD at TUWien (RQ2, RQ3)

4.1 Methodology (1-2p)

In this study the data were acquired by a coordinated set of semi-structured interviews. The questionnaire had the same basis and parts for a joint statistically evaluation and individual parts for the three specific topics to

with people active in various fields of research The interviewees were recommended by Prof. Biffel, based on their knowledge and work.

4.1.1 Description of questionnaire

4.1.2 Description of interviewed people

4.2 Results

4.2.1 Needs, potential benefits, use-cases

4.2.2 Challenges

5 Proposed technical architecture/LOD Prototype Architecture (RQ4)

5.1 The big picture

5.2 Stakeholder specific issues (datasets, application types)

5.3 (Technical) Challenges

6 Conclusions and future work

Revisit each research question and give a condensed answer derived from possibly multiple methods (e.g., benefits: as identified in interviews, as seen at other universities)

7 Acknowledgments

8 References

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9 Appendices

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