

Preparing an Annotated Bibliography

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1 Project Goals

The overarching goal of this project is to demonstrate your ability to write an annotated bibliography on an assigned topic. The instructor will assign each student a specific topic in Natural Language Processing (NLP).

The audience for this work are students, professors, and industrial research professionals who want to learn more about the state of the art on a specific topic in NLP.

2 What is a Bibliography?

A bibliography is a list of sources such as books, journal papers, articles in conference proceedings, master's and PhD theses, technical reports, research briefs, analyst reports, Web sites, and periodicals. Bibliographies are sometimes called *References* or *Works Cited*. There are several standard formats for storing bibliography items including BIB_TX, EndNote, and ACM Ref. For this assignment, we will use BIB_TX format and *biblatex* package for typesetting the annotated bibliography.

3 What is an Annotated Bibliography?

An annotated bibliography includes a summary and evaluation of each of the sources in the bibliography. For examples of annotated bibliography, see [1, 2, 3, 4, 5]. Though survey papers are different from an annotated bibliography, it is worthwhile to examine [6, 7]. Some of these papers are available on muOnline.

An annotated bibliography provides the following for each source (aka bibliography item) in the bibliography:

1. *Summary* should indicate the research topic, problem addressed, and discussion on results obtained. Abstract of the article is a good starting point for writing the summary.
2. *Evaluate* the article. Is the source reliable and authoritative? How does the article compare with other sources in the bibliography?
3. *Reflect* on the article. Does it fall into the scope of your research topic? How can you use this in your research project? What facet of your research is addressed by this article? Does it help you to see a unified perspective on the research topic?

4 Depth and Breadth of Annotated Bibliography

The bibliography should be focused on the assigned topic. However, you need to explore all *facets* of the assigned topic. For example, if the topic is *Temporal and Evolution Aspects in the Semantic Web*, various facets include Time and Temporal Aspects (Temporal Extensions of SemanticWeb, Spatio-temporal Extensions of Semantic Web, Ontology of Time, Ontology of Time and Space), and Evolution and Versioning Aspects (Evolution Issues, Management of Changes, Editors for Semantic Web, Detection and Analysis of Changes, Versioning Issues) [1].

It may not be possible to include every relevant paper, or even every important paper. If there are too many works, include those that have been influential, are widely available, and are also reasonably current. As a rule of thumb, include papers that were published in the last five years. Include seminal papers irrespective of their publication date. Include tutorials and survey papers that are especially helpful for beginning researchers.

5 Resources to Consult

These are the ones that your professor is aware of. If you come across new and useful ones, please share with the class.

- ① How various open source tools can be used to help beginning research students is discussed in [8].
- ② ACM Digital Library: <http://dl.acm.org/>
- ③ IEEE Computer Society Digital Library: <http://www.computer.org/csdl>
- ④ SiteSeerX: <http://citeseerx.ist.psu.edu/index>
- ⑤ MENDELEY: <http://www.mendeley.com/>
- ⑥ Google Scholar: <http://scholar.google.com/>
- ⑦ Ultimate Research Assistant:
<http://www.ultimate-research-assistant.com/GenerateResearchReport.asp>
- ⑧ Linguistic Data Consortium <http://ldc-upenn.blogspot.com/>
- ⑨ Association for Computational Linguistics: <http://www.aclweb.org/>
- ⑩ Computational Linguistics Journal: <http://www.mitpressjournals.org/loi/coli>
- ❶ Transactions of the Association for Computational Linguistics: <http://www.transacl.org/>
- ❷ Dialogue and Discourse (D&D) Journal: <http://www.dialogue-and-discourse.org/>

6 Steps

1. Search the resources listed in Section 5 using keywords and phrases that are appropriate for your research topic. Read abstracts of the retrieved papers to get a feel for the various facets of the research topics. Use techniques mentioned in [8] to identify facets of your NLP topic.

2. Refine your search with new keywords and phrases using your new understanding of the research topics from the previous step. This is an iterative process.
3. You may also seek help from library professionals in the Drinko library.
4. Use the prescribed L^AT_EX template (annotated-bibliography-response-template.tex and nlp.bib) for preparing your annotated bibliography.
5. Get feedback from your peers and professor on your write up. Incorporate suggested changes.
6. Zip the three documents — L^AT_EX source, the BibT_EX file, and the PDF file resulting from compiling the L^AT_EX source — and upload to muOnline through the assignment dropbox.

References

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- [5] Akmal B. Chaudhri. “An Annotated Bibliography of Benchmarks for Object Databases”. In: *SIGMOD Rec.* 24.1 (Mar. 1995), pp. 50-57. ISSN: 0163-5808.
- [6] Dipanjan Das and André F. T. Martins. *A Survey on Automatic Text Summarization*. 2007.
- [7] Marcus Uneson. “When Errors Become the Rule: Twenty Years with Transformation-Based Learning”. In: *ACM Comput. Surv.* 46.4 (Apr. 2014), 50:1-50:51. ISSN: 0360-0300.
- [8] D. Rao, R. Agrawal, and V. Gudivada. “Scaffolding Beginning Research Students Using Open Source Tools”. In: *Proceedings of the 120th ASEE Annual Conference & Exposition*. ASEE, June 2013, pp. 1-9.