COMP 516 Research Methods in Computer Science

Dominik Wojtczak

Department of Computer Science University of Liverpool

COMP 516 Research Methods in Computer Science

Lecture 7: Bibliographies and Referencing (2)

Dominik Wojtczak

Department of Computer Science University of Liverpool

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Bibliography styles

- We will cover some of the standard bibliographic styles
- For your essay, the most important thing is that you use one consistently

Styles: Ordinal Number

- Sources listed in the bibliography are sorted according to some ordering, typically based on the authors' names, and numbered consecutively
- References in the text are given as (lists of) numbers cross-referencing the bibliography, enclosed in square brackets

Example:

Key techniques for utilising temporal logic specifications have been investigated, including verification via proof [3] and verification via model-checking [1,2].

Bibliography

- 1. E. Clarke, O. Grumberg, and D. A. Peled. *Model Checking*. MIT Press, 2000.
- 2. K. L. McMillan. Symbolic Model Checking. Kluwer, 1993.
- 3. M. Vardi and P. Wolper. Reasoning about infinite computations. *Inform. and Computat.*, 115:1–37, 1994.

 Sources in the reference list are arranged alphabetically by the authors' names;

Example:

Bibliography

- E. Clarke, O. Grumberg, and D. A. Peled (2000). *Model Checking*. MIT Press.
- K. L. McMillan (1993). Symbolic Model Checking. Kluwer.
- M. Vardi and P. Wolper (1994). Reasoning about infinite computations. *Inform. and Computat.*, 115:1–37.

 Sources in the reference list are arranged alphabetically by the authors' names;

where there is more than one work by the same authors, they are arranged by year of publication, starting with the earliest; where there is more than one work with the same authors and date, a letter is added to the year of publication to distinguish them

Example:

Bibliography

- P. Wolper (1996a). Where is the Algorithmic Support? *ACM Comput. Surv.* 28(4): 58.
- P. Wolper (1996b). The Meaning of "Formal". *ACM Comput. Surv.* 28(4): 127.

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Styles: Author-Date (2)

A reference is given by the authors' names and the date enclosed in parentheses unless the authors' names are part of the sentence

Example of quoting:

The following is an extract from (Wolper 1996a):

Consider, for instance, the issue of compositionality in proof systems for concurrency. I am not going to argue that compositionality is undesirable, but that achieving it without algorithmic support (in a broad sense) is easy and mostly useless.

Example of citing:

While Wolper (1996a) does not argue that compositionality in proof systems for concurrency is undesirable, he claims that achieving it without algorithmic support is mostly useless.

Styles: Author-Date (2)

A reference is given by the authors' names and the date enclosed in parentheses unless the authors' names are part of the sentence

Examples:

Recent work (Wolper 1996a, 1996b) stresses the importance of algorithmic support for formal methods.

Wolper (1996a, 1996b) stresses the importance of algorithmic support for formal methods.

The completion procedure may fail in general, but has been extended to a refutationally complete theorem prover (cf. Lankford 1975, Hsiang and Rusinowitch 1987, and Bachmair, Dershowithz and Plaisted 1989). Completion procedures for conditional equations have been described by Kounalis and Rusinowitch (1988), and by Ganzinger (1987a, 1987b).

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Styles: Abbreviation (1)

- Mix of ordinal number style and author-date style
- Sources in the bibliography are presented like in ordinal number style, but instead of numbering them, each source is given a unique identifier based on authors' names and year of publication, with additional letters to disambiguate duplicate abbreviations

Example:

Bibliography

- [CGP00] E. Clarke, O. Grumberg, and D. A. Peled. *Model Checking*. MIT Press, 2000.
- [vdG94] R. A. van der Goot. *Strategies for modal resolution*. Master's thesis, Delft University of Technology, The Netherlands, 1994.
- [Wol96a] P. Wolper. Where is the Algorithmic Support? *ACM Comput. Surv.* 28(4):58, 1996.
- [Wol96b] P. Wolper. The Meaning of "Formal". *ACM Comput. Surv.* 28(4):127, 1996.

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Organising References

- There are myriads of styles for references and bibliographies
- You should maintain information on your sources in a 'neutral' format
- Ideally, you should use a tool which
 - supports such a 'neutral' format
 - allows to add, delete, modify references
 - allows to search for references
 - interacts with your word processor/text editor
 - generates a list of references in any desired format

Styles: Abbreviation (2)

 References in the text are given as (lists of) abbreviations cross-referencing the bibliography, again enclosed in square brackets

Examples:

Key techniques for utilising temporal logic specifications have been investigated, including verification via proof [VW94] and verification via model-checking [CGP00,McM93].

Recent work [Wol96a, Wol96b] stresses the importance of algorithmic support for formal methods.

Wolper in [Wol96a,Wol96b] stresses the importance of algorithmic support for formal methods.

The completion procedure may fail in general, but has been extended to a refutationally complete theorem prover (cf. [Lan75,HR87,BDP89]). Completion procedures for conditional equations have been described by Kounalis and Rusinowitch [KT88], and by Ganzinger [Gan87a,Gan87b].

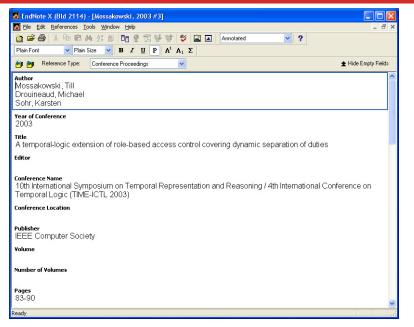
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Organising References: EndNote

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Mossakowski			10th International Symposium on Temp	Conference Proceedings	
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EndNote: Entering References



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EndNote: Choosing Bibliography Styles (2)

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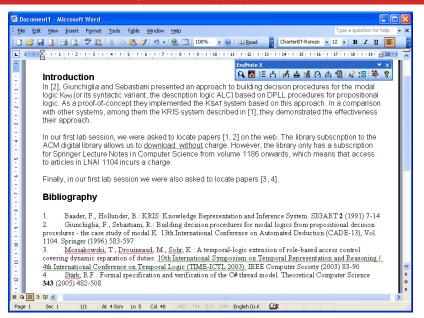
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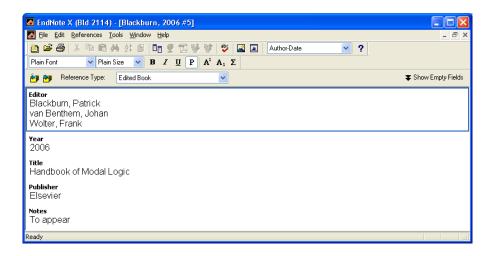


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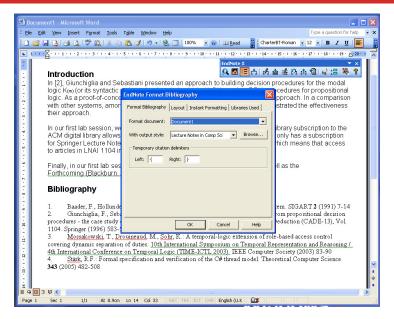


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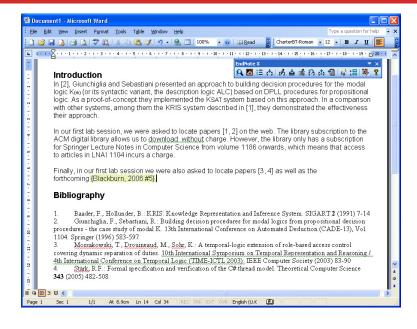
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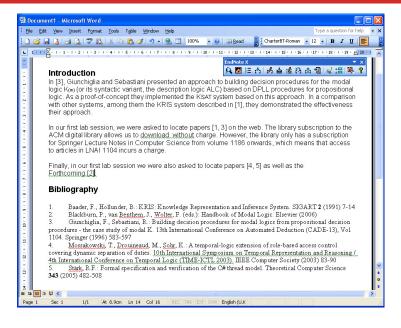
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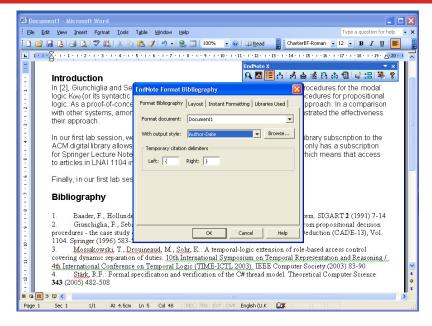
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EndNote: Updating a Bibliography (2)



EndNote: Re-formatting a Bibliography (1)

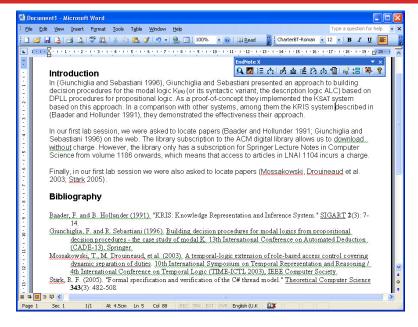


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The Alternatives

- RefWorks
- Mendeley
- Zotero
- Delicious
- CiteULike

EndNote: Re-formatting a Bibliography (2)



Conclusion

- Tools like EndNote, RefWorks, Citeulike, Mendeley and Zotero (which is free) help you maintain a large set of bibliographic references
- They ease the burden of referencing and generating lists of references according to a specific style
- If no specific style is requested, then a providing all the necessary information about each of your sources in a consistent way is the most important aspect of a bibliography
- Beware that the way you formulate sentences which include references depends on the referencing style; changing that style later on is time-consuming and error-prone