Recording references

Dr. Yee Wei Law (yeewei.law@unisa.edu.au)

February 27, 2023

This brief provides 1 guidance on getting started with BibTeX, and 2 rudimentary guidance on using reference management software for referencing.

Contents

1BibTeX13Recording references in BibTeX manually52Recording references using a reference management software4References6

1 BibTeX

BibTeX is a tool and also a file format for describing and processing lists of references, mostly in conjunction with LATEX documents. For our purpose, it suffices to treat BibTeX as a file format for bibliography. In the LATEX source of this document, notice the two lines near the end:

\bibliographystyle{aomalpha}
\bibliography{ref}

Above,

• The first macro \bibliographystyle defines the style of the bibliography, which in our case is the alphanumeric style called aomalpha designed for the Annals of Mathematics (where John Nash published his seminal game theory papers). There are standard styles like the American Psychological Association (APA) style, the Chicago style, and the Harvard style, a version of which has been adopted by UniSA as their standard. Publishers like IEEE, ASME, Elsevier and Wiley also have their own bibliography styles. A comprehensive list of bibliography styles can be found on BibTeX.com. We use aomalpha in this course because citations in this style are more compact than Harvard-style citations, yet more informative than numeric citations. • The second macro \bibliography specifies the name of the file where the BibTeX entries are kept. The subsequent instructions explain how BibTeX entries can be obtained.

Suppose we found a relevant journal article on Google Scholar. Figure 1 shows how we can obtain the BibTeX entry for the journal article.

≡	Magnetorheologica	al fluid dampers: A review on structure design and analysis	zotero bib 1. Enter title, DOI, ISBN, URL, or arXiv ID			
•	Scholar	YEAR	10.1177/1045389X12436735	ite		
desi X Zhu Magn	gn and analysis , <u>X Jing, L Cheng</u> - Journa etorheological fluid techno	d dampers: a review on structure [PDF] sagepub.com I of intelligent material, 2012 - journals.sagepub.com plogy has gained significant development during the past decades.	Manual Entry 2. C	Click		
engin	ipplicati eering, X 1 devic€	Cite				
dynai	ers cou nical fei MLA DD Cit MLA	Zhu, Xiaocong, Xingjian Jing, and Li Cheng. "Magnetorheological fluid dampers: a review on structure design and analysis." <i>Journal of intelligent material systems</i> and structures 23.8 (2012): 839-873.	Zhu, Xiaocong, et al. "Magnetorheological Fluid Dampers: A Review on Structure Design and Analysis." <i>Journal of Intelligent Material Systems and Structures</i> , vol. 2 no. 8, May 2012, pp. 839-73. <i>DOI.org (Crossref)</i> , doi:10.1177/1045389X1243673 Close Delete Edit	23,		
	1. Click this	Zhu, X., Jing, X., & Cheng, L. (2012). Magnetorheological fluid dampers: a review on structure design and analysis. <i>Journal</i> of intelligent material systems and structures, 23(8), 839-873.	Somewhere down the page			
	Chicago	Zhu, Xiaocong, Xingjian Jing, and Li Cheng. "Magnetorheological fluid dampers: a review on structure design and analysis." <i>Journal of intelligent material systems</i> <i>and structures</i> 23, no. 8 (2012): 839-873.	 Export			
	Harvard	Zhu, X., Jing, X. and Cheng, L., 2012. Magnetorheological fluid dampers: a review on structure design and analysis. <i>Journal</i> of intelligent material systems and structures, 23(8), pp.839-873.	Copy to Clipboard V 💶 3. Click			
	Vancouver	Zhu X, Jing X, Cheng L. Magnetorheological fluid dampers: a review on structure design and analysis. Journal of intelligent material systems and structures. 2012 May;23(8):839-73.	Download RTF (all word processors	s)		
2. Click this BIDTEX EndNote RefMan RefWorks			Copy HTML Download RIS	-		
3.	Get this:	·	Download BibTeX 4. Cho	ose		
ti au jo vo nu pa ye	thor={Zhu, Xiaocong a urnal={Journal of int lume={23}, mber={8}, ges={839873}, ar={2012},	eological, al fluid dampers: a review on structure design and analysis}, nd Jing, Xingjian and Cheng, Li}, elligent material systems and structures}, tions Sage UK: London, England}	Link to this vers			

Figure 1: Obtaining a BibTeX entry Figure 2: Obtaining a BibTeX entry from Google Scholar. from zoterobib.

Suppose the article turns out to be [ZJC12]. Given the title or Digital Object Identifier (DOI) of the article, we can use the website zoterobib to obtain the associated BibTeX entry, as per Figure 2.

However, the **recommended approach** is to get the BibTeX entry from the publisher's website, which for this example paper [ZJC12] is SAGE Publishing. Figure 3 shows how we can get the BibTeX entry from SAGE Publishing. If the paper happens to have been published by IEEE, for example the paper [GJPL09], we can get the BibTeX entry from IEEE as per Figure 4. Most publishers provide BibTeX entries through their websites.

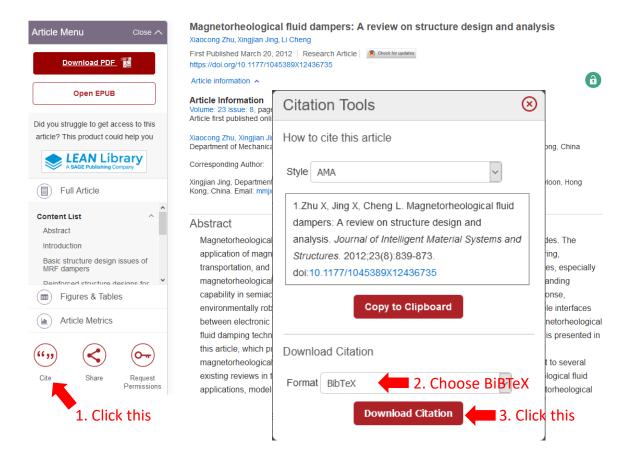


Figure 3: Obtaining a BibTeX entry from SAGE Publishing.

IEEE Xplore® Browse My Settin	Cite This X						
	Plain Text	BibTeX	RIS	Refworks			
All	Copy Download	2.	Click this	Citation & Abstract			
Journals & Magazines > IEEE Transactions on Industry > Volum @ARTICLE[5165013, Design Aspects of an Active Electr author={B. L. J. {Gysen} and J. L. G. {Janssen} and J. J. H. {Paulides} and E. A. {Lomonova}}, Journals & Magazines > IEEE Transactions on Industry > Volum @ARTICLE[5165013, Publisher: IEEE Cite This Cite This Citck this Cite This Por Bart L. J. Gysen ; Jercen L. G. Janssen ; Johannes J. H. Pauli H. Paulides							
71 2 1750 Paper Patent Full Citations Citations Text Views			3. Clic	k this 📥 Copy			

Figure 4: Obtaining a BibTeX entry from IEEE.

🚹 Attention: Citing a website

To cite an *undated* website (e.g., https://www.overleaf.com) or to cite a website *once*, it is acceptable to use a footnote, e.g., Overleaf^a, rather than a BibTeX entry. There are standard ways of citing websites [Lan15]. If you need to cite a website multiple times, definitely make a BibTeX entry based on the URL.

ahttps://www.overleaf.com

1

In case you cannot obtain a BibTeX entry from the source of the reference, e.g., a white paper, there are generally two ways to create a BibTeX entry: using a reference management software, or typing it out manually. We discuss these two methods in the next two sections.

2 Recording references using a reference management software

The main options for a reference management software are

- EndNote (available through library),
- Mendeley (freely available through Elsevier),
- Zotero (freely available through Corporation for Digital Scholarship, a nonprofit organisation).

A choice among EndNode, Mendeley and Zotero depends on individual preferences, but please read this selection guide by Washington University at St Louis. Here we use Zotero for examples.

In this example, suppose we desire a BibTeX entry for this data brief from STMicroelectronics. Figure 5 shows how we can operate Zotero to export a BibTeX entry:

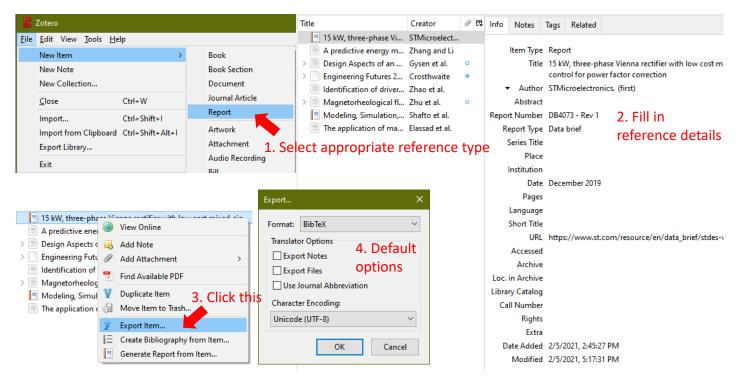


Figure 5: Creating a report-like reference item in Zotero and exporting the item to BibTeX.

As of version 5.0.95.1, the BibTeX entry exported by Zotero reads:

```
@techreport{stmicroelectronics_15_2019,
    type = {Data brief},
    title = {15 {kW}, three-phase {Vienna} rectifier with low cost mixed-signal
    control for power factor correction},
    url = {https://www.st.com/resource/en/data_brief/stdes-viennarect.pdf},
    number = {DB4073 - Rev 1},
    author = {{STMicroelectronics}},
    month = dec,
    year = {2019},
}
```

Above,

- Zotero encloses "kW" and "Vienna" with curly brackets to preserve its casing/capitalisation.
- We have to be careful to enclose "STMicroelectronics" with two pairs of curly brackets to preserve its casing/capitalisation; because Zotero is not smart enough to automatically does it.
- You might want to customise the *citation key* or *reference key* stmicroelectronics_15_2014 according to your own naming convention. Google and Microsoft for example use the naming convention (first author's last name)(year)(first non-preposition word of title). Applying Google's and Microsoft's naming convention to the citation key above, we would get stmicroelectronics201915.

Besides generating BibTeX entries, Zotero is useful for

- redirecting a publisher's website through a subscriber-accessible proxy (Figure 6 shows the moment when Zotero detects the UniSA library's proxy at https://access.library.unisa.edu.au);
- indexing documents (Figure 7 shows a sample search result based on the index it keeps of all attached documents).

```
Zotero detected that you are accessing ieeexplore.ieee.org through a proxy. Would you like to automatically redirect future requests to ieeexplore.ieee.org through access.library.unisa.edu.au?
```

Figure 6: Upon detecting proxy usage, Zotero displays this on a web browser.

3 Recording references in BibTeX manually

To type out a BibTeX entry, know that there are multiple types, including techreport (technical report, which we saw earlier) and article. An example an article Bib-TeX entry looks like:

```
@article{nash1951noncooperative,
author = {John Nash},
title = {Non-Cooperative Games},
journal = {Annals of Mathematics},
volume = {54},
```

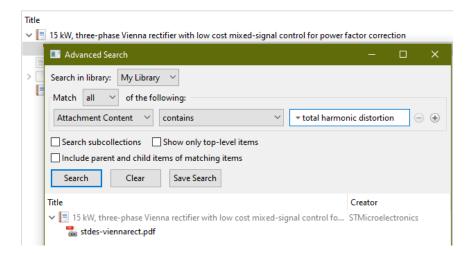


Figure 7: Zotero can index documents.

```
number = {2},
pages = {286--295},
publisher = {Annals of Mathematics},
year = {1951},
issn = {0003486X},
url = {http://www.jstor.org/stable/1969529},
}
```

Every reference entry type has *required* fields and *optional* fields. An article reference entry, such as the above, has only four required fields, namely author, title, journal and year. All the other fields in the example above are optional. Information about the different reference entry types and associated required fields is available in the LATEX Wikibook. Some optional fields like issn and url are only recognised in some bibliography styles.

- We can use **BibTeX.com** to determine the fields recognised by a bibliography style. For example, this page shows all the fields recognised by the bibliography style aomalpha.
- Conversely, we can also use **BibTeX.com** to determine the bibliography styles that recognise a particular field. For example, this page shows all the bibliography styles that recognise the field issn.

In case the above is not clear enough, Imperial College London has a learning support page on BibTeX.

4 References

[GJPL09] B. L. J. GYSEN, J. L. G. JANSSEN, J. J. H. PAULIDES, and E. A. LOMONOVA, Design aspects of an active electromagnetic suspension system for automotive applications, *IEEE Transactions on Industry Applications* 45 no. 5 (2009), 1589–1597. https://doi.org/10.1109/TIA.2009.2027097.

- [Lan15] LANGUAGE AND LEARNING ADVISERS AND LIBRARIANS, Harvard referencing guide UniSA, University of South Australia, 2015. Available at https://lo.unisa.edu.au/pluginfile.php/438774/mod_book/ chapter/39173/HRG%20January%202015%20final%20version.pdf.
- [ZJC12] X. ZHU, X. JING, and L. CHENG, Magnetorheological fluid dampers: A review on structure design and analysis, *Journal of Intelligent Material Systems and Structures* 23 no. 8 (2012), 839–873. https://doi.org/10.1177/1045389X12436735.