BIBTEX INSTRUCTIONS FOR LATEX USERS OF ENDNOTE

Optics Laboratory – Georgia Institute of Technology

Author: Sushant Guha

Original Date: 31st October 2023

Revised Date: 23rd February 2024

Preface

First follow the steps in the 'Customizing EndNote for IEEE Style: Instructions for Word and Latex users' document to setup EndNote appropriately.

Overview

The default EndNote BibTex output does not contain the required reference types for the IEEE standard. Furthermore, the format of the output styles does not match the IEEE standard. Provided below are the steps to modify both these facets. The purpose of this document is to provide an exact list of steps to perform to achieve the LaTeX setup that we found to be optimal.

EndNote Style Selection

To export your references in the correct BibTex style, follow these instructions:

1. Navigate to EndNote.
2. Select 'Tools' from the top bar.
3. Click 'Output Styles' and select 'Open Style Manager'.
4. Scroll through the list of styles and click the checkbox next to 'BibTex_Export_GT_OL'.
5. Close the Style Manager Window.
6. Once again, click on 'Tools' and 'Output Styles'.
7. Select 'BibTex_Export_GT_OL' from the available options to format your exported references in the preferred style.

BibTex Library

For the output of the EndNote BibTex Export to function as intended, the LaTeX file must be modified. The 'cite' package must be used in conjunction with the 'ieeetr' style. To do this, include the following in the preamble of your document:

```
\usepackage{cite}
```

To ensure the ieee style formatting is used, the following must be added wherever the Bibliography is printed:

```
\bibliographystyle{ieeetr}
```

```
\bibliography{Bibli} % Where "Bibli" is the name of the .bib file with your bibliography entries
```

By default, this creates a right-aligned Bibliography. However, this could lead to odd spacing between bibliography entries. To solve this issue, the following is included in the preamble of the document:

```
\raggedright
```

Alternatively, if this affects other parts of your document, you could use the following:

```
\begin{flushleft}
```

```
\bibliography{Bibli} % Where "Bibli" is the name of the .bib file with your bibliography entries
```

```
\end{flushleft}
```

Inserting Special Characters

Any of the characters listed below can be problematic for BibTex during import and need to be prefixed by "\":

Ampersands &

Percentage signs %

Underscores _

Dollar signs $

Plus signs +

EndNote's character set is limited, and hence does not allow certain special characters. This includes Greek and Latin characters sometimes found in research papers. The same issue arises in Overleaf and other LaTeX compilers. To bypass this issue, search for the appropriate symbol in the 'LaTex math symbols' list found here: https://oeis.org/wiki/List_of_LaTeX_mathematical_symbols. Type the corresponding LaTeX macro into the appropriate section of EndNote to ensure the symbol is correctly displayed in LaTeX.

Alternatively, if you would like to keep your EndNote library compatible with both LaTeX and Cite While You Write (CWYW), add the following to the preamble of your LaTeX document:

```
\usepackage[mathletters]{ucs}
```

```
\usepackage[utf8x]{inputenc}
```

Make sure you are using Tex Live version 2023. On Overleaf, click the 'Menu' button on the top-left corner of the page. Then select '2023' from the dropdown for 'Text Live version'.

Then, ensure you are using the ASCII version of the character you wish to insert. The appropriate symbol can be searched for on this website: https://www.ascii-code.com/characters. This ensures compatibility with both LaTeX and CWYW. Note that this method only works for characters that do not have any accents. For instance, 'Greek small letter alpha' will work, but 'Greek small letter alpha with tonos' will not display correctly on LaTeX. For these more complex characters, use the appropriate LateX macro as mentioned above.

Not all LaTeX IDEs can understand the required Greek symbols. Provided below is a list of known LaTeX IDEs that accept the required Greek symbols:

1. Overleaf
2. TexStudio
3. TexMaker

Provided below is a list of LaTeX IDEs that do not understand the required Greek symbols:

1. Texworks Editor
2. PcTex