Method for using LLM for Symbolic Reasoning

Anonymous ACL submission

Abstract

This document is a supplement to the general instructions for *ACL authors. It contains instructions for using the LaTeX style file for ACL 2023. The document itself conforms to its own specifications, and is, therefore, an example of what your manuscript should look like. These instructions should be used both for papers submitted for review and for final versions of accepted papers.

1 Introduction

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These instructions are for authors submitting papers to ACL 2023 using LaTeX. They are not self-contained. All authors must follow the general instructions for *ACL proceedings, 1 as well as guidelines set forth in the ACL 2023 call for papers. 2 This document contains additional instructions for the LaTeX style files. The templates include the LaTeX source of this document (acl2023.tex), the LaTeX style file used to format it (acl2023.sty), an ACL bibliography style (acl_natbib.bst), an example bibliography (custom.bib), and the bibliography for the ACL Anthology (anthology.bib).

2 Engines

To produce a PDF file, pdfLTEX is strongly recommended (over original LTEX plus dvips+ps2pdf or dvipdf). XeLTEX also produces PDF files, and is especially suitable for text in non-Latin scripts.

3 Preamble

The first line of the file must be

\documentclass[11pt]{article}

To load the style file in the review version:

Command	Output	Command	Output
{\"a}	ä	{\c c}	ç
{\^e}	ê	{\u g}	ğ
{\`i}	ì	{\1}	ł
{\.I}	İ	{\~n}	ñ
{\o}	Ø	{\H o}	ő
{\'u}	ú	{\v r}	ř
{\aa}	å	{\ss}	ß

Table 1: Example commands for accented characters, to be used in, *e.g.*, BibT_EX entries.

\usepackage[review]{ACL2023}

For the final version, omit the review option:

\usepackage{ACL2023}

To use Times Roman, put the following in the preamble:

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\usepackage{times}

(Alternatives like txfonts or newtx are also acceptable.) Please see the LATEX source of this document for comments on other packages that may be useful. Set the title and author using \title and \author. Within the author list, format multiple authors using \and \and \AND; please see the LATEX source for examples. By default, the box containing the title and author names is set to the minimum of 5 cm. If you need more space, include the following in the preamble:

\setlength\titlebox{<dim>}

where <dim> is replaced with a length. Do not set this length smaller than 5 cm.

4 Document Body

4.1 Footnotes

Footnotes are inserted with the \footnote command.³

 $^{^{\}rm I}{\rm http://acl-org.github.io/ACLPUB/formatting.} \\ {\rm html}$

²https://2023.aclweb.org/calls/main_ conference/

³This is a footnote.

Output	natbib command	Old ACL-style command
(Cooley and Tukey, 1965)	\citep	\cite
Cooley and Tukey, 1965	\citealp	no equivalent
Cooley and Tukey (1965)	\citet	\newcite
(1965)	\citeyearpar	\shortcite
Cooley and Tukey's (1965)	\citeposs	no equivalent
(FFT; Cooley and Tukey, 1965)	<pre>\citep[FFT;][]</pre>	no equivalent

Table 2: Citation commands supported by the style file. The style is based on the natbib package and supports all natbib citation commands. It also supports commands defined in previous ACL style files for compatibility.

4.2 Tables and figures

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See Table 1 for an example of a table and its caption. **Do not override the default caption sizes.**

4.3 Hyperlinks

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Users of older versions of LAT_EX may encounter the following error during compilation:

\pdfendlink ended up in different
nesting level than \pdfstartlink.

This happens when pdfLATEX is used and a citation splits across a page boundary. The best way to fix this is to upgrade LATEX to 2018-12-01 or later.

4.4 Citations

Table 2 shows the syntax supported by the style files. We encourage you to use the natbib styles. You can use the command \citet (cite in text) to get "author (year)" citations, like this citation to a paper by Gusfield (1997). You can use the command \citep (cite in parentheses) to get "(author, year)" citations (Gusfield, 1997). You can use the command \citealp (alternative cite without parentheses) to get "author, year" citations, which is useful for using citations within parentheses (e.g. Gusfield, 1997).

4.5 References

The LATEX and BibTEX style files provided roughly follow the American Psychological Association format. If your own bib file is named custom.bib, then placing the following before any appendices in your LATEX file will generate the references section for you:

\bibliographystyle{acl_natbib}
\bibliography{custom}

You can obtain the complete ACL Anthology as a BibTEX file from https://aclweb.org/anthology/anthology.bib.gz. To include both

the Anthology and your own .bib file, use the following instead of the above.

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\bibliographystyle{acl_natbib}
\bibliography{anthology,custom}

Please see Section 5 for information on preparing BibT_EX files.

4.6 Appendices

Use \appendix before any appendix section to switch the section numbering over to letters. See Appendix A for an example.

5 BibT_EX Files

Unicode cannot be used in BibTEX entries, and some ways of typing special characters can disrupt BibTEX's alphabetization. The recommended way of typing special characters is shown in Table 1.

Please ensure that BibTEX records contain DOIs or URLs when possible, and for all the ACL materials that you reference. Use the doi field for DOIs and the url field for URLs. If a BibTEX entry has a URL or DOI field, the paper title in the references section will appear as a hyperlink to the paper, using the hyperref LATEX package.

Limitations

ACL 2023 requires all submissions to have a section titled "Limitations", for discussing the limitations of the paper as a complement to the discussion of strengths in the main text. This section should occur after the conclusion, but before the references. It will not count towards the page limit. The discussion of limitations is mandatory. Papers without a limitation section will be desk-rejected without review.

While we are open to different types of limitations, just mentioning that a set of results have been shown for English only probably does not reflect what we expect. Mentioning that the method

works mostly for languages with limited morphology, like English, is a much better alternative. In addition, limitations such as low scalability to long text, the requirement of large GPU resources, or other things that inspire crucial further investigation are welcome.

Ethics Statement

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Scientific work published at ACL 2023 must comply with the ACL Ethics Policy.⁴ We encourage all authors to include an explicit ethics statement on the broader impact of the work, or other ethical considerations after the conclusion but before the references. The ethics statement will not count toward the page limit (8 pages for long, 4 pages for short papers).

Acknowledgements

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References

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A Example Appendix

This is a section in the appendix.

⁴https://www.aclweb.org/portal/content/
acl-code-ethics