
Academic Paper Template

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Abstract

The abstract paragraph should be indented 1/2 inch (3 picas) on both left and right-hand margins. Use 10 point type, with a vertical spacing of 11 points. The word Abstract must be centered, in small caps, and in point size 12. Two line spaces precede the abstract. The abstract must be limited to one paragraph.

1 Paper Format Instructions

This template provides the basic format requirements and typesetting guidelines for academic papers. Please prepare your paper according to the following instructions.

If your paper is finally accepted, you can uncomment the `\iclrfinalcopy` statement to adjust the format to meet the requirements of the final version.

The format of this template is based on a variant of academic conference paper formats. Please read the following instructions carefully and follow them strictly.

1.1 Style

The paper must be prepared according to the instructions provided here.

Please use the provided LaTeX style file. Make sure to use the current file, not previous versions. Modifying the style file may cause formatting issues.

1.2 Style File Usage

This template includes the following files:

overview.sty, overview.bst, overview.tex

This document explains various formatting requirements that your paper must meet. You must use LaTeX and the provided style files when submitting. You can use the overview.tex

*Use footnote for providing further information about author (webpage, alternative address)—not for acknowledging funding agencies. Funding acknowledgements go at the end of the paper.

file as a "shell" for writing your paper. You only need to replace the author, title, abstract, and paper body with your own content.

The formatting instructions contained in these style files are summarized in sections ??, ??, and ?? below.

2 General formatting instructions

The text must be confined within a rectangle 5.5 inches (33 picas) wide and 9 inches (54 picas) long. The left margin is 1.5 inch (9 picas). Use 10 point type with a vertical spacing of 11 points. Times New Roman is the preferred typeface throughout. Paragraphs are separated by 1/2 line space, with no indentation.

Paper title is 17 point, in small caps and left-aligned. All pages should start at 1 inch (6 picas) from the top of the page.

Authors' names are set in boldface, and each name is placed above its corresponding address. The lead author's name is to be listed first, and the co-authors' names are set to follow. Authors sharing the same address can be on the same line.

Please pay special attention to the instructions in section ?? regarding figures, tables, acknowledgments, and references.

It is recommended that the main body of the paper does not exceed 10 pages, with the references section not counting towards this page limit.

3 Headings: First-Level Heading

First-level headings use small caps, left-aligned, with a font size of 12 points. Leave one line space before a first-level heading and half a line space after.

3.1 Headings: Second-Level Heading

Second-level headings use small caps, left-aligned, with a font size of 10 points. Leave one line space before a second-level heading and half a line space after.

3.1.1 Headings: Third-Level Heading

Third-level headings use small caps, left-aligned, with a font size of 10 points. Leave one line space before a third-level heading and half a line space after.

4 Citations, Figures, and References

The following instructions apply to everyone, regardless of which formatting tool is used.

4.1 Citations in Text

Citations in the text should be based on the natbib package, including the author's surname and year (for more than two authors, use the "et al." structure). When the author or publication is included in the sentence, the citation should not use parentheses, but should use `\citet{}` (e.g., "See ? for more information"). Otherwise, citations should use parentheses, using `\citep{}` (e.g., "Deep learning is expected to make progress in artificial intelligence (?)").

The corresponding references should be listed in alphabetical order by author in the References section. As for the format of the references themselves, any style is acceptable as long as it is used consistently.

Table 1: Example table caption

Part	Description
Dendrite	Input terminal
Axon	Output terminal
Soma	Cell body (contains the nucleus)

4.2 Footnotes

Mark footnotes in the text with numbers¹. Place footnotes at the bottom of the page where they appear. Add a 2-inch (12 picas) horizontal line before the footnotes.²

4.3 Figures

All figures must be neat, clear, and legible. Lines should be dark enough for reproduction; figures should not be hand-drawn. Figure numbers and captions always appear after the figure. Leave one line space before the figure caption and one line space after the figure. Figure captions should use lowercase letters (except for the first word and proper nouns); figures are numbered sequentially.

Ensure that figure captions are not separated from the figure. Leave enough space to avoid splitting the figure and its caption.

You may use color figures. However, it is best to make figure captions and paper text meaningful in both black and white and color printing.

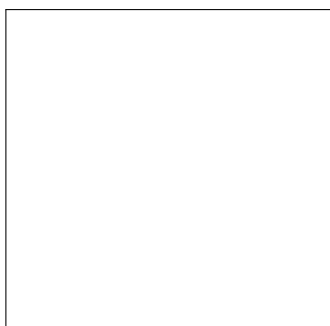


Figure 1: Example figure caption.

4.4 Tables

All tables must be centered, neat, clear, and legible. Do not use hand-drawn tables. Table numbers and captions always appear before the table. See Table ??.

Leave one line space before the table caption, one line space after the table caption, and one line space after the table. Table captions must use lowercase letters (except for the first word and proper nouns); tables are numbered sequentially.

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? https://github.com/goodfeli/dlbook_notation/
Numbers and Arrays

math_commands.tex

¹First footnote example

²Second footnote example

a	A scalar (integer or real)
\mathbf{a}	A vector
\mathbf{A}	A matrix
\mathbf{A}	A tensor
\mathbf{I}_n	Identity matrix with n rows and n columns
\mathbf{I}	Identity matrix with dimensionality implied by context
$\mathbf{e}^{(i)}$	Standard basis vector $[0, \dots, 0, 1, 0, \dots, 0]$ with a 1 at position i
$\text{diag}(\mathbf{a})$	A square, diagonal matrix with diagonal entries given by \mathbf{a}
$\text{diag}(\mathbf{A})$	A vector containing the diagonal elements of the matrix \mathbf{A}
a	A scalar random variable
\mathbf{a}	A vector-valued random variable
\mathbf{A}	A matrix-valued random variable

Sets and Graphs

\mathbb{A}	A set
\mathbb{R}	The set of real numbers
$\{0, 1\}$	The set containing 0 and 1
$\{0, 1, \dots, n\}$	The set of all integers between 0 and n
$[a, b]$	The real interval including a and b
$(a, b]$	The real interval excluding a but including b
$\mathbb{A} \setminus \mathbb{B}$	Set subtraction, i.e., the set containing the elements of \mathbb{A} that are not in \mathbb{B}
\mathcal{G}	A graph
$\text{parents}_{\mathcal{G}}(x_i)$	The parents of x_i in \mathcal{G}

Indexing

a_i	Element i of vector \mathbf{a} , with indexing starting at 1
a_{-i}	All elements of vector \mathbf{a} except for element i
$A_{i,j}$	Element i, j of matrix \mathbf{A}
$\mathbf{A}_{i,:}$	Row i of matrix \mathbf{A}
$\mathbf{A}_{:,i}$	Column i of matrix \mathbf{A}
$A_{i,j,k}$	Element (i, j, k) of a 3-D tensor \mathbf{A}
$\mathbf{A}_{::,i}$	2-D slice of a 3-D tensor
$a_{i,j}$	Element i of the j -th example
$\mathbf{X}^{(i)}$	The i -th example (input) from a dataset
$y^{(i)}$ or $\mathbf{y}^{(i)}$	The target associated with the i -th example
\mathbf{X}	The input data matrix with m rows and n columns
\mathbf{y}	The vector of targets

6 Final Instructions

Please do not change any formatting parameters in the style file. In particular, do not modify the width or length of the rectangle that the text should fit into, and do not change the font size (except in the References section; see below). Note that pages should be numbered.

7 Preparing PostScript or PDF Files

Please prepare PostScript or PDF files with paper size "US Letter", not, for example, "A4". The `-t letter` option on `dvips` will generate US Letter files.

Consider using `pdflatex` to directly generate PDF files (especially if you are a MiKTeX user). However, PDF graphics must replace EPS graphics.

Otherwise, please use the following commands to generate your PostScript and PDF files:

```
dvips mypaper.dvi -t letter -Ppdf -G0 -o mypaper.ps
ps2pdf mypaper.ps mypaper.pdf
```

7.1 Margins in LaTeX

Most margin problems come from figures manually positioned with `\special` or other commands. We suggest using the `\includegraphics` command from the `graphicx` package. Always specify the figure width as a multiple of the line width, as in the example below using `.eps` graphics

```
\usepackage[dvips]{graphicx} ...
\includegraphics[width=0.8\linewidth]{myfile.eps}
```

or

```
\usepackage[pdftex]{graphicx} ...
\includegraphics[width=0.8\linewidth]{myfile.pdf}
```

for `.pdf` graphics. See section 4.4 of the `graphics` package documentation (<http://www.ctan.org/tex-archive/macros/latex/required/graphics/grfguide.ps>)

Some width problems arise when LaTeX cannot properly hyphenate a line. Please give LaTeX hyphenation hints using the `\-` command.

Author Contributions

If you wish, you may include an author contributions section, as is done in many journals. This is optional and at the discretion of the authors.

Acknowledgments

Use an unnumbered third-level heading for acknowledgments. All acknowledgments, including those to funding agencies, go at the end of the paper.

A Appendix

You can include additional supplementary sections here.