
Formatting Instructions for ROB 537 Final Paper

Affiliation

email

Abstract

The abstract paragraph should be indented ½ inch (3 picas) on both the left- and right-hand margins. Use 10 point type, with a vertical spacing (leading) of 11 points. The word **Abstract** must be centered, bold, and in point size 12. Two line spaces precede the abstract. The abstract must be limited to one paragraph.

5 0.1 Style

6 The margins in 2017 are the same as since 2007, which allow for $\sim 15\%$ more words in the paper
7 compared to earlier years.

8 0.2 Retrieval of style files

9 The style files for NIPS and other conference information are available on the World Wide Web at

10 <http://www.nips.cc/>

11 The file `nips_2017.pdf` contains these instructions and illustrates the various formatting require-
12 ments your NIPS paper must satisfy.

13 The only supported style file for NIPS 2017 is `nips_2017.sty`, rewritten for L^AT_EX 2_ε. **Previous**
14 **style files for L^AT_EX 2.09, Microsoft Word, and RTF are no longer supported!**

15 The new L^AT_EX style file contains two optional arguments: `final`, which creates a camera-ready copy,
16 and `nonatbib`, which will not load the `natbib` package for you in case of package clash.

17 At submission time, please omit the final option. This will anonymize your submission and add
18 line numbers to aid review. Please do *not* refer to these line numbers in your paper as they will be
19 removed during generation of camera-ready copies.

20 The file `nips_2017.tex` may be used as a “shell” for writing your paper. All you have to do is
21 replace the author, title, abstract, and text of the paper with your own.

22 The formatting instructions contained in these style files are summarized in Sections 1, 2, and 3
23 below.

24 1 General formatting instructions

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

29 The paper title should be 17 point, initial caps/lower case, bold, centered between two horizontal
30 rules. The top rule should be 4 points thick and the bottom rule should be 1 point thick. Allow ¼ inch

31 space above and below the title to rules. All pages should start at 1 inch (6 picas) from the top of the
32 page.

33 For the final version, authors' names are set in boldface, and each name is centered above the
34 corresponding address. The lead author's name is to be listed first (left-most), and the co-authors'
35 names (if different address) are set to follow. If there is only one co-author, list both author and
36 co-author side by side.

37 Please pay special attention to the instructions in Section 3 regarding figures, tables, acknowledgments,
38 and references.

39 **2 Headings: first level**

40 All headings should be lower case (except for first word and proper nouns), flush left, and bold.

41 First-level headings should be in 12-point type.

42 **2.1 Headings: second level**

43 Second-level headings should be in 10-point type.

44 **2.1.1 Headings: third level**

45 Third-level headings should be in 10-point type.

46 **Paragraphs** There is also a `\paragraph` command available, which sets the heading in bold, flush
47 left, and inline with the text, with the heading followed by 1 em of space.

48 **3 Citations, figures, tables, references**

49 These instructions apply to everyone.

50 **3.1 Citations within the text**

51 The `natbib` package will be loaded for you by default. Citations may be author/year or numeric, as
52 long as you maintain internal consistency. As to the format of the references themselves, any style is
53 acceptable as long as it is used consistently.

54 The documentation for `natbib` may be found at

55 `http://mirrors.ctan.org/macros/latex/contrib/natbib/natnotes.pdf`

56 Of note is the command `\citet`, which produces citations appropriate for use in inline text. For
57 example,

58 `\citet{hasselmo}` investigated\dotso

59 produces

60 Hasselmo, et al. (1995) investigated...

61 If you wish to load the `natbib` package with options, you may add the following before loading the
62 `nips_2017` package:

63 `\PassOptionsToPackage{options}{natbib}`

64 If `natbib` clashes with another package you load, you can add the optional argument `nonatbib`
65 when loading the style file:

66 `\usepackage[nonatbib]{nips_2017}`

67 As submission is double blind, refer to your own published work in the third person. That is, use “In
68 the previous work of Jones et al. [4],” not “In our previous work [4].” If you cite your other papers
69 that are not widely available (e.g., a journal paper under review), use anonymous author names in the
70 citation, e.g., an author of the form “A. Anonymous.”

71 3.2 Footnotes

72 Footnotes should be used sparingly. If you do require a footnote, indicate footnotes with a number¹
73 in the text. Place the footnotes at the bottom of the page on which they appear. Precede the footnote
74 with a horizontal rule of 2 inches (12 picas).

75 Note that footnotes are properly typeset *after* punctuation marks.²

76 3.3 Figures

77 All artwork must be neat, clean, and legible. Lines should be dark enough for purposes of reproduction.
78 The figure number and caption always appear after the figure. Place one line space before the figure
79 caption and one line space after the figure. The figure caption should be lower case (except for first
80 word and proper nouns); figures are numbered consecutively.

81 You may use color figures. However, it is best for the figure captions and the paper body to be legible
if the paper is printed in either black/white or in color.

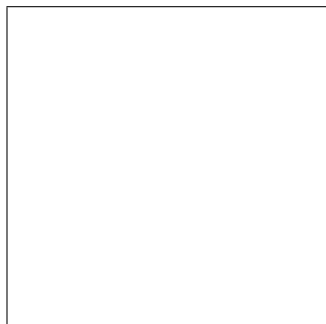


Figure 1: Sample figure caption.

82

83 3.4 Tables

84 All tables must be centered, neat, clean and legible. The table number and title always appear before
85 the table. See Table 1.

86 Place one line space before the table title, one line space after the table title, and one line space after
87 the table. The table title must be lower case (except for first word and proper nouns); tables are
88 numbered consecutively.

89 Note that publication-quality tables *do not contain vertical rules*. We strongly suggest the use of the
90 booktabs package, which allows for typesetting high-quality, professional tables:

91 `https://www.ctan.org/pkg/booktabs`

92 This package was used to typeset Table 1.

93 4 Final instructions

94 Do not change any aspects of the formatting parameters in the style files. In particular, do not modify
95 the width or length of the rectangle the text should fit into, and do not change font sizes (except
96 perhaps in the **References** section; see below). Please note that pages should be numbered.

¹Sample of the first footnote.

²As in this example.

Table 1: Sample table title

Part		
Name	Description	Size (μm)
Dendrite	Input terminal	~ 100
Axon	Output terminal	~ 10
Soma	Cell body	up to 10^6

5 Preparing PDF files

Please prepare submission files with paper size “US Letter,” and not, for example, “A4.”

Fonts were the main cause of problems in the past years. Your PDF file must only contain Type 1 or Embedded TrueType fonts. Here are a few instructions to achieve this.

- You should directly generate PDF files using `pdflatex`.
- You can check which fonts a PDF files uses. In Acrobat Reader, select the menu Files>Document Properties>Fonts and select Show All Fonts. You can also use the program `pdffonts` which comes with `xpdf` and is available out-of-the-box on most Linux machines.
- The IEEE has recommendations for generating PDF files whose fonts are also acceptable for NIPS. Please see <http://www.emfield.org/icuwb2010/downloads/IEEE-PDF-SpecV32.pdf>
- `xfig` "patterned" shapes are implemented with bitmap fonts. Use "solid" shapes instead.
- The `\bbold` package almost always uses bitmap fonts. You should use the equivalent AMS Fonts:

```
\usepackage{amsfonts}
```

followed by, e.g., `\mathbb{R}`, `\mathbb{N}`, or `\mathbb{C}` for \mathbb{R} , \mathbb{N} or \mathbb{C} . You can also use the following workaround for reals, natural and complex:

```
\newcommand{\RR}{I\!\!R} %real numbers
\newcommand{\Nat}{I\!\!N} %natural numbers
\newcommand{\CC}{I\!\!C} %complex numbers
```

Note that `amsfonts` is automatically loaded by the `amssymb` package.

If your file contains type 3 fonts or non embedded TrueType fonts, we will ask you to fix it.

5.1 Margins in L^AT_EX

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

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

See Section 4.4 in the `graphics` bundle documentation (<http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf>)

A number of width problems arise when L^AT_EX cannot properly hyphenate a line. Please give LaTeX hyphenation hints using the `\-` command when necessary.

Acknowledgments

Use unnumbered third level headings for the acknowledgments. All acknowledgments go at the end of the paper. Do not include acknowledgments in the anonymized submission, only in the final paper.

132 **References**

133 References follow the acknowledgments. Use unnumbered first-level heading for the references. Any
134 choice of citation style is acceptable as long as you are consistent. It is permissible to reduce the font
135 size to `small` (9 point) when listing the references. **Remember that you can go over 8 pages as**
136 **long as the subsequent ones contain *only* cited references.**

- 137 [1] Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In
138 G. Tesauro, D.S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp.
139 609–616. Cambridge, MA: MIT Press.
- 140 [2] Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the*
141 *GENeral NEural Simulation System*. New York: TELOS/Springer-Verlag.
- 142 [3] Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent
143 synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.