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# Formatting Instructions For NeurIPS 2021 4th Robot Learning Workshop: Self-Supervised and Lifelong Learning

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## Abstract

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

## 5   1   Submission of papers to NeurIPS 2021 4th Robot Learning Workshop: 6       Self-Supervised and Lifelong Learning

7   NeurIPS requires electronic submissions. The electronic submission site is

8               <https://cmt3.research.microsoft.com/NeurIPSWRL2021/>

9   Please read the instructions below carefully and follow them faithfully.

### 10   1.1   Style

11   Papers to be submitted to NeurIPS 2021 must be prepared according to the instructions presented  
12   here. Papers may only be up to eight pages long, including figures. Additional pages *containing only*  
13   *acknowledgments and/or cited references* are allowed. Papers that exceed eight pages of content  
14   (ignore references) will not be reviewed, or in any other way considered for presentation at the  
15   conference.

16   The margins in 2021 are the same as since 2007, which allow for ~15% more words in the paper  
17   compared to earlier years.

18   Authors are required to use the NeurIPS L<sup>A</sup>T<sub>E</sub>X style files obtainable at the NeurIPS website as  
19   indicated below. Please make sure you use the current files and not previous versions. Tweaking the  
20   style files may be grounds for rejection.

### 21   1.2   Retrieval of style files

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

23               <http://www.robot-learning.ml/2021/#submission-instructions>

24   The file `neurips_wrl2021.pdf` contains these instructions and illustrates the various formatting  
25   requirements your NeurIPS paper must satisfy.

26 The only supported style file for NeurIPS 2021 is `neurips_wrl2021.sty`, rewritten for L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>.  
27 **Previous style files for L<sup>A</sup>T<sub>E</sub>X 2.09, Microsoft Word, and RTF are no longer supported!**

28 The L<sup>A</sup>T<sub>E</sub>X style file contains three optional arguments: `final`, which creates a camera-ready copy,  
29 `preprint`, which creates a preprint for submission to, e.g., arXiv, and `nonatbib`, which will not  
30 load the `natbib` package for you in case of package clash.

31 **Preprint option** If you wish to post a preprint of your work online, e.g., on arXiv, using the  
32 NeurIPS style, please use the `preprint` option. This will create a nonanonymized version of your  
33 work with the text “Preprint. Work in progress.” in the footer. This version may be distributed as  
34 you see fit. Please **do not** use the `final` option, which should **only** be used for papers accepted to  
35 NeurIPS.

36 At submission time, please omit the `final` and `preprint` options. This will anonymize your  
37 submission and add line numbers to aid review. Please do *not* refer to these line numbers in your  
38 paper as they will be removed during generation of camera-ready copies.

39 The file `neurips_wrl2021.tex` may be used as a “shell” for writing your paper. All you have to do  
40 is replace the author, title, abstract, and text of the paper with your own.

41 The formatting instructions contained in these style files are summarized in Sections 2, 3, and 4  
42 below.

## 43 **2 General formatting instructions**

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

48 The paper title should be 17 point, initial caps/lower case, bold, centered between two horizontal  
49 rules. The top rule should be 4 points thick and the bottom rule should be 1 point thick. Allow 1/4 inch  
50 space above and below the title to rules. All pages should start at 1 inch (6 picas) from the top of the  
51 page.

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

56 Please pay special attention to the instructions in Section 4 regarding figures, tables, acknowledgments,  
57 and references.

## 58 **3 Headings: first level**

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

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

### 61 **3.1 Headings: second level**

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

#### 63 **3.1.1 Headings: third level**

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

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

## 67 4 Citations, figures, tables, references

68 These instructions apply to everyone.

### 69 4.1 Citations within the text

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

73 The documentation for natbib may be found at

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

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

77 `\citet{hasselmo}` investigated\dotso

78 produces

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

80 If you wish to load the natbib package with options, you may add the following before loading the  
81 neurips\_2021 package:

82 `\PassOptionsToPackage{options}{natbib}`

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

85 `\usepackage[nonatbib]{neurips_2021}`

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

### 90 4.2 Footnotes

91 Footnotes should be used sparingly. If you do require a footnote, indicate footnotes with a number<sup>1</sup>  
92 in the text. Place the footnotes at the bottom of the page on which they appear. Precede the footnote  
93 with a horizontal rule of 2 inches (12 picas).

94 Note that footnotes are properly typeset *after* punctuation marks.<sup>2</sup>

### 95 4.3 Figures

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

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

### 102 4.4 Tables

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

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<sup>1</sup>Sample of the first footnote.

<sup>2</sup>As in this example.

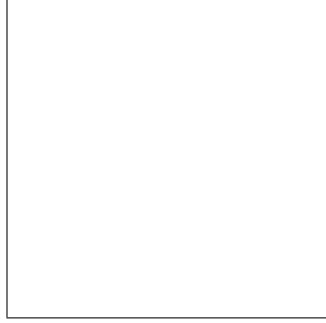


Figure 1: Sample figure caption.

Table 1: Sample table title

Part		
Name	Description	Size ( $\mu\text{m}$ )
Dendrite	Input terminal	$\sim 100$
Axon	Output terminal	$\sim 10$
Soma	Cell body	up to $10^6$

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

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

<https://www.ctan.org/pkg/booktabs>

This package was used to typeset Table 1.

## 5 Final instructions

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

## 6 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 `pdf fonts` 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 NeurIPS. 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:

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

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

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

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

## 138 6.1 Margins in L<sup>A</sup>T<sub>E</sub>X

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

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

144 See Section 4.4 in the graphics bundle documentation ([http://mirrors.ctan.org/macros/](http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf)  
 145 [latex/required/graphics/grfguide.pdf](http://mirrors.ctan.org/macros/latex/required/graphics/grfguide.pdf))

146 A number of width problems arise when L<sup>A</sup>T<sub>E</sub>X cannot properly hyphenate a line. Please give LaTeX  
 147 hyphenation hints using the `\-` command when necessary.

## 148 Acknowledgments

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

## 151 References

152 References follow the acknowledgments. Use unnumbered first-level heading for the references. Any  
 153 choice of citation style is acceptable as long as you are consistent. It is permissible to reduce the font  
 154 size to `small` (9 point) when listing the references. **Remember that you can use more than eight**  
 155 **pages as long as the additional pages contain *only* cited references.**

156 [1] Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In  
 157 G. Tesauro, D.S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp.  
 158 609–616. Cambridge, MA: MIT Press.

159 [2] Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the*  
 160 *GEneral NEural Simulation System*. New York: TELOS/Springer-Verlag.

161 [3] Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent  
 162 synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.