
Track 1:

Formatting Instructions For AdvML-Frontiers 2024

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Abstract

1 The abstract paragraph should be indented $\frac{1}{2}$ 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 AdvML-Frontiers 2024

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

7 1.1 Style

8 Papers to be submitted to AdvML-Frontiers 2024 must be prepared according to the instructions
9 presented here. Papers may only be up to **six** pages long, including figures. Additional pages
10 *containing only acknowledgments and references* are allowed. Papers that exceed the page limit will
11 not be reviewed, or in any other way considered for presentation at the conference.

12 The margins in 2024 are the same as those in previous years.

13 Authors are required to use the AdvML-Frontiers 2024 \LaTeX style files obtainable at the AdvML-
14 Frontiers 2024 website as indicated below. Please make sure you use the current files and not previous
15 versions. Tweaking the style files may be grounds for rejection.

16 1.2 Retrieval of style files

17 The style files for AdvML-Frontiers 2024 are available on the website at

18 <https://advml-frontier.github.io/>

19 The file `AdvML_Frontiers_2024.pdf` contains these instructions and illustrates the various format-
20 ting requirements your AdvML-Frontiers 2024 paper must satisfy.

21 The only supported style file for AdvML-Frontiers 2024 is `AdvML_Frontiers_2024.sty`, rewritten
22 for $\LaTeX 2_{\epsilon}$. **Previous style files for $\LaTeX 2.09$, Microsoft Word, and RTF are no longer
23 supported!**

24 The \LaTeX style file contains four optional arguments: `final`, which creates a camera-ready copy,
25 `track1`, which creates a track1 template, `track2`, which creates a track2 template, `track3`, which
26 creates a track3 template,

27 The file `AdvML_Frontiers_2024.tex` may be used as a “shell” for writing your paper. All you
28 have to do is replace the author, title, abstract, and text of the paper with your own.

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

31 **2 General formatting instructions**

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

36 The paper title should be 17 point, initial caps/lower case, bold, centered between two horizontal
37 rules. The top rule should be 4 points thick and the bottom rule should be 1 point thick. Allow $\frac{1}{4}$ inch
38 space above and below the title to rules. All pages should start at 1 inch (6 picas) from the top of the
39 page.

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

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

46 **3 Headings: first level**

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

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

49 **3.1 Headings: second level**

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

51 **3.1.1 Headings: third level**

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

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

55 **4 Citations, figures, tables, references**

56 These instructions apply to everyone.

57 **4.1 Citations within the text**

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

61 The documentation for `natbib` may be found at

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

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

65 `\citet{hasselmo}` investigated\dots

66 produces

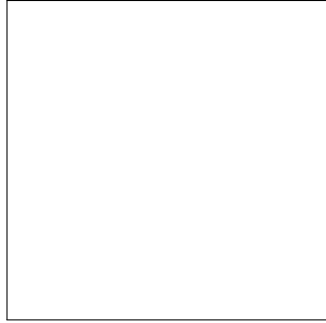


Figure 1: Sample figure caption.

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

68 If you wish to load the `natbib` package with options, you may add the following before loading the
69 `AdvML_Frontiers_2024` package:

```
70 \PassOptionsToPackage{options}{natbib}
```

71 As submission is double blind, refer to your own published work in the third person. That is, use “In
72 the previous work of Jones et al. [4],” not “In our previous work [4].” If you cite your other papers
73 that are not widely available (e.g., a journal paper under review), use anonymous author names in the
74 citation, e.g., an author of the form “A. Anonymous” and include a copy of the anonymized paper in
75 the supplementary material.

76 4.2 Footnotes

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

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

81 4.3 Figures

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

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

88 4.4 Tables

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

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

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

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

97 This package was used to typeset Table 1.

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

98 **4.5 Math**

99 Note that display math in bare TeX commands will not create correct line numbers for sub-
 100 mission. Please use LaTeX (or AMSTeX) commands for unnumbered display math. (You
 101 really shouldn't be using \$\$ anyway; see <https://tex.stackexchange.com/questions/503/why-is-preferable-to> and [https://tex.stackexchange.com/questions/40492/](https://tex.stackexchange.com/questions/40492/what-are-the-differences-between-align-equation-and-displaymath)
 102 [what-are-the-differences-between-align-equation-and-displaymath](https://tex.stackexchange.com/questions/40492/what-are-the-differences-between-align-equation-and-displaymath) for more infor-
 103 mation.)
 104

105 **4.6 Final instructions**

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

109 **5 Preparing PDF files**

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

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

- 113 • You should directly generate PDF files using `pdflatex`.
- 114 • You can check which fonts a PDF files uses. In Acrobat Reader, select the menu
 115 Files>Document Properties>Fonts and select Show All Fonts. You can also use the program
 116 `pdf fonts` which comes with `xpdf` and is available out-of-the-box on most Linux machines.
- 117 • `xfig` "patterned" shapes are implemented with bitmap fonts. Use "solid" shapes instead.
- 118 • The `\bbold` package almost always uses bitmap fonts. You should use the equivalent AMS
 119 Fonts:

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

```

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

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

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

128 **5.1 Margins in L^AT_EX**

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

```

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

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

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

138 **References**

139 References follow the acknowledgments in the camera-ready paper. Use unnumbered first-level
140 heading for the references. Any choice of citation style is acceptable as long as you are consistent. It
141 is permissible to reduce the font size to `small` (9 point) when listing the references. Note that the
142 Reference section does not count towards the page limit.

143 [1] Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In
144 G. Tesauro, D.S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp.
145 609–616. Cambridge, MA: MIT Press.

146 [2] Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the*
147 *GEneral NEural Simulation System*. New York: TELOS/Springer-Verlag.

148 [3] Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent
149 synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.

150 **A Appendix / supplemental material**

151 Optionally include supplemental material (complete proofs, additional experiments and plots) in
152 appendix. All such materials **SHOULD be included in the main submission.**