

Exploring Repeatability on Mechanical Turk

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Abstract

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These instructions are generic. Consequently, they do not include specific dates, page charges, and so forth. Please consult your specific written conference instructions for details regarding your submission. Please review the entire document for specific instructions that might apply to your particular situation. All authors must comply with the following:

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Formatting Requirements in Brief

We need source and PDF files that can be used in a variety of ways and can be output on a variety of devices. AAAI imposes some requirements on your source and PDF files that must be followed. Most of these requirements are based on our efforts to standardize conference manuscript properties and layout. These requirements are as follows, and all papers submitted to AAAI for publication must comply:

- All fonts must be embedded in the PDF file.
- No type 3 fonts may be used (even in illustrations).
- Your title must follow US capitalization rules.
- \LaTeX documents must use the Times or Nimbus font package (do not use Computer Modern for the text of your paper).
- No \LaTeX 209 documents may be used or submitted.
- Fonts that require non-English language support (CID and Identity-H) must be converted to outlines or removed from the document (even if they are in a graphics file embedded in the document).
- Two-column format in AAAI style is required for all papers.

- The paper size for final submission must be US letter. No exceptions.
- The source file must exactly match the PDF.
- The document margins must be as specified in the formatting instructions.
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- Neither the PDFs nor the source may contain any embedded links or bookmarks.
- Your source and PDF must not have any page numbers, footers, or headers.
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If you do not follow the above requirements, it is likely that we will be unable to publish your paper.

What Files to Submit

You must submit the following items to ensure that your paper is published:

- A fully-compliant PDF file.
- Your L^AT_EX source file submitted as a *single* .tex file that *includes* the bibliography formatted using aaai.bib, and any custom macros your paper uses (include them in the preamble). Your source must compile on our system.
- All your graphics files.
- The .aux and .log file for your compiled source.
- All the style files used in your document.

Your L^AT_EX source will be reviewed and recompiled on our system (if it does not compile, you may incur late fees). **Do not submit your source in multiple text files.** Your single L^AT_EX source file must include all your text, your bibliography (formatted using aaai.bst), and any custom macros. Accompanying this source file, you must also supply all your referenced style files and graphics files.

Your files should work without any supporting files (other than the program itself) on any computer. Place your PDF and source files in a single tar, zipped, gzipped, stuffed, or compressed archive. Name your source file with your last (family) name.

Do not send files that are not actually used in the paper. We don't want you to send us any files not needed for compiling your paper, including, for example, this instructions file, unused graphics files, and so forth. A shell script that might help you create the L^AT_EX source package is included in the Author Kit.

Using L^AT_EX to Format Your Paper

The latest version of the AAAI style file is available on AAAI's website. Download this file and place it in a file named "aaai.sty" in the T_EX search path. Placing it in the same directory as the paper should also work. You must download the latest version of the complete author kit so that you will have the latest instruction set.

Document Preamble

In the L^AT_EX source for your paper, you **must** place the following lines as shown in the example in this subsection. This command set-up is for three authors. Add or subtract author and address lines as necessary, and uncomment the portions that apply to you. In most instances, this is all you need to do to format your paper in the Times font. The helvet package will cause Helvetica to be used for sans serif, and the courier package will cause Courier to be used for the typewriter font. These files are part of the PSNFSS2e package, which is freely available from many Internet sites (and is often part of a standard installation).

Leave the setcounter for section number depth commented out and set at 0 unless you want to add section numbers to your paper. If you do add section numbers, you must uncomment this line and change the number to 1 (for section numbers), or 2 (for section and subsection numbers). The style file will not work properly with numbering of subsections, so do not use a number higher than 2.

To add the required metadata for your paper, uncomment one of the two metadata sections. Metadata will be explained in greater detail in the next subsection.

```
\documentclass[letterpaper]article
% Required Packages
\usepackage{aaai}
\usepackage{times}
\usepackage{helvet}
\usepackage{courier}
%%%%
% PDFMARK for TeX and GhostScript
% Uncomment and complete the following for
% metadata if your paper is typeset using TeX and
% GhostScript (e.g if you use .ps or .eps files in your paper):
% \special{! /pdfmark where
% {pop} {userdict /pdfmark /cleartomark load put} ifelse
% [ /Author (John Doe, Jane Doe)
% /Title (Input Your Paper Title Here)
% /Subject (Input the Proceedings Title Here)
% /Keywords (Input your paper's keywords here)
% /DOCINFO pdfmark
% }
%%
% PDFINFO for PDFTEX
% Uncomment and complete the following for metadata if
% your paper is typeset using PDFTEX
% \pdfinfo{
% /Title (Input Your Paper Title Here)
% /Author (John Doe, Jane Doe)
% /Subject (Input the Proceedings Title Here)
% /Keywords (Input your paper's keywords here)
% }
%%
% Section Numbers
% Uncomment if you want to use section numbers
% and change the 0 to a 1 or 2
% \setcounter{secnumdepth}{0}
%%
% Title, Author, and Address Information
```

```

\title{Title}
\author{Author 1 \and Author 2}\
Address line\\
Address line\\
\And
Author 3\\
Address line\\
Address line}
%%
% Body of Paper Begins
\begin{document}
\maketitle
...
%%
% References and End of Paper
\bibliography{Bibliography-File}
\bibliographystyle{aaai}
\end{document}

```

Inserting Document Metadata with L^AT_EX

PDF files contain document summary information that enables us to create an Acrobat index (pdx) file, and also allows search engines to locate and present your paper more accurately. *Inserting metadata is a requirement of submission.*

If your paper includes illustrations that are not compatible with PDF_TE_X (such as .eps or .ps documents), you will be using GhostScript to create your PDF. To add metadata to your paper, you should uncomment the *PDFMARK for T_EX and GhostScript* section in the preamble shown above.

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Preparing Your Paper

After the preamble above, you should prepare your paper as follows:

```

\begin{document}
\maketitle
...
\bibliography{Bibliography-File}
\bibliographystyle{aaai}
\end{document}

```

Incompatible Packages

The following packages are incompatible with aaai.sty and/or aaai.bst and must not be used (this list is not exhaustive):

- hyperref
- natbib
- geometry
- titlesec
- layout
- T1 fontenc package (install the CM super fonts package instead)

Paper Size, Margins, and Column Width

Papers must be formatted to print in two-column format on 8.5 x 11 inch US letter-sized paper. The margins must be exactly as follows:

- Top margin: .75 inches
- Left margin: .75 inches
- Right margin: .75 inches
- Bottom margin: 1.25 inches

The default paper size in most installations of L^AT_EX is A4. However, because we require that your electronic paper be formatted in US letter size, you will need to alter the default for this paper to US letter size. Assuming you are using the 2e version of L^AT_EX, you can do this by including the [letterpaper] option at the beginning of your file: `\documentclass[letterpaper]article.`

This command is usually sufficient to change the format. Sometimes, however, it may not work, especially if you use PDF_LA_TE_X, and you may need to make some alterations to your source. **Do not use the Geometry package to alter the page size.** Use of this style file alters aaai.sty and will result in your paper being rejected.

It is also usually necessary to configure dvips. Try passing the -tletter option to dvips. Those using RedHat Linux 8.0 and L^AT_EX should also check the paper size setting in “/usr/share/texmf/dvips/config/config.ps” — it may be that “A4” is the default, rather than “letter.” This can result in incorrect top and bottom margins in documents you prepare with L^AT_EX. You may need to edit the config file to correct the problem. (Once you’ve edited to config file for US letter, however, don’t forget to change it back — otherwise it may not be possible for you to print your papers locally.)

Column Width and Margins. To ensure maximum readability, your paper must include two columns. Each column should be 3.3 inches wide (slightly more than 3.25 inches), with a .375 inch (.952 cm) gutter of white space between the two columns. The aaai.sty file will automatically create these columns for you.

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If your paper is too long, turn on `\frenchspacing`, which will reduce the space after periods. Next, alter the linespacing to 11 point and/or shrink the size of your graphics. Use `\centering` instead of `\begin{center}` in your

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Commands that alter page layout are forbidden. These include `\columnsep`, `\topmargin`, `\topskip`, `\textheight`, `\textwidth`, `\oddsidemargin`, and `\evensidemargin`. **If you alter page layout, your paper will be classified as late, and it will either be excluded from the proceedings or you will be required to pay a significant late fee.** Other commands that are questionable and may cause your paper to be rejected include `\parindent` and `\parskip`. Commands that alter the space between sections are also questionable. Regardless of the above, if your paper is obviously "squeezed" it is not going to be accepted. Before using every trick you know to make your paper a certain length, try cutting text instead or (if allowed) paying the extra page charge. It will be cheaper in the long run.

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Your paper must be formatted in Times Roman or Nimbus. We will not accept papers formatted using Computer Modern as the text or heading typeface. Sans serif, when used, should be Courier. Use Symbol or Lucida or Computer Modern for *mathematics only*.

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The default size for your type should be ten-point with eleven- or twelve-point leading (line spacing). Twelve point leading is easier to read, however if your paper is running long, you may change the leading to eleven point. Start all pages (except the first) directly under the top margin. (See the next section for instructions on formatting the title page.) Indent ten points when beginning a new paragraph, unless

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Obtaining Type 1 Computer Modern for L^AT_EX. If you use Computer Modern for the mathematics in your paper (you cannot use it for the text) you may need to download type 1 Computer fonts. They are available without charge from the American Mathematical Society: <http://www.ams.org/tex/type1-fonts.html>.

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Your title must appear in mixed case (nouns, pronouns, and verbs are capitalized) near the top of the first page, centered over both columns in sixteen-point bold type (twenty-four point leading). This style is called "mixed case." Author's names should appear below the title of the paper, centered in twelve-point type (with fifteen point leading), along with affiliation(s) and complete address(es) (including electronic mail address if available) in nine-point roman type (the twelve point leading). (If the title is long, or you have many authors, you may reduce the specified point sizes by up to two points.) You should begin the two-column format when you come to the abstract.

Formatting Author Information Author information can be set in a number of different styles, depending on the number of authors and the number of affiliations you need to display. For several authors from the same institution, use `\and`:

```
\author{Author 1 \and ... \and Author n}
Address line \ \ ... \ \ Address line}
```

If the names do not fit well on one line use:

```
\author{Author 1} \ \
{\bf Author 2} \ \ ... \ \ {\bf Author n} \ \
Address line \ \ ... \ \ Address line}
```

For authors from different institutions, use `\And`:

```
\author{Author 1 \ \ Address line \ \ ... \ \ Address line
\And ... \And Author n} \ \
Address line \ \ ... \ \ Address line}
```

To start a separate "row" of authors, use `\AND`:

```
\author{Author 1 \ \ Address line \ \ ... \ \ Address line \ \
\AND
Author 2 \ \ Address line \ \ ... \ \ Address line \ \
\And
Author 3 \ \ Address line \ \ ... \ \ Address line \ \
}
```

If the title and author information does not fit in the area allocated, place `\setlength\titlebox{height}` after the `\documentclass` line where `{height}` is something like 2.5in.

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The copyright notice automatically appears if you use `aaai.sty`. If you are creating a technical report, it is not necessary to include this notice. You may disable the copyright line using the `\nocopyrightcommand`. To change the entire text of the copyright slug, use: `\copyrighttext {text}`. Either of these must appear before `\maketitle`. Please be advised,

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Any credits to a sponsoring agency should appear in the acknowledgments section, unless the agency requires different placement. If it is necessary to include this information on the front page, use `\thanks` in either the `\author` or `\title` commands. For example:

```
\title{Very Important Results in AI}\thanks{This work is supported by everybody.}}
```

Multiple `\thanks` commands can be given. Each will result in a separate footnote indication in the author or title with the corresponding text at the bottom of the first column of the document. Note that the `\thanks` command is fragile. You will need to use `\protect`.

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The abstract must be placed at the beginning of the first column, indented ten points from the left and right margins. The title Abstract should appear in ten-point bold type, centered above the body of the abstract. The abstract should be set in nine-point type with ten-point leading. This concise, one-paragraph summary should describe the general thesis and conclusion of your paper. A reader should be able to learn the purpose of the paper and the reason for its importance from the abstract. The abstract should be no more than two hundred words in length. (Authors who are submitting short one- or two-page extended extracts should provide a short abstract of only a sentence or so.) **Do not include references in your abstract!**

Page Numbers

Do not **ever** print any page numbers on your paper.

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The main body of the paper must be formatted in ten-point with eleven-point or twelve-point leading (line spacing).

Citations

Citations within the text should include the author's last name and year, for example (Newell 1980). Append lower-case letters to the year in cases of ambiguity. Multiple authors should be treated as follows: (Feigenbaum and Englemore 1988) or (Ford, Hayes, and Glymour 1992). In the case of four or more authors, list only the first author, followed by et al. (Ford et al. 1997).

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Long quotations and extracts should be indented ten points from the left and right margins.

This is an example of an extract or quotation. Note the indent on both sides. Quotation marks are not necessary if you offset the text in a block like this, and properly identify and cite the quotation in the text.

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When necessary, headings should be used to separate major sections of your paper. Remember, you are writing a short paper, not a lengthy book! An overabundance of headings will tend to make your paper look more like an outline than a paper.

First-level heads should be twelve-point Times Roman bold type, mixed case (initial capitals followed by lower case on all words except articles, conjunctions, and prepositions, which should appear entirely in lower case), with fifteen-point leading, centered, with one blank line preceding them and three additional points of leading following them. Second-level headings should be eleven-point Times Roman bold type, mixed case, with thirteen-point leading, flush left, with one blank line preceding them and three additional points of leading following them. Do not skip a line between paragraphs. Third-level headings should be run in with the text, ten-point Times Roman bold type, mixed case, with twelve-point leading, flush left, with six points of additional space preceding them and no additional points of leading following them.

Section Numbers The use of section numbers in AAAI Press papers is optional. To use section numbers in \LaTeX , uncomment the `setcounter` line in your document preamble and change the 0 to a 1 or 2. Section numbers should not be used in short poster papers.

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Acknowledgments. The acknowledgments section, if included, appears after the main body of text and is headed "Acknowledgments." This section includes acknowledgments of help from associates and colleagues, credits to sponsoring agencies, financial support, and permission to publish. Please acknowledge other contributors, grant support, and so forth, in this section. Do not put acknowledgments in a footnote on the first page. If your grant agency requires acknowledgment of the grant on page 1, limit the footnote to the required statement, and put the remaining acknowledgments at the back. Please try to limit acknowledgments to no more than three sentences.

Appendices. Any appendices follow the acknowledgments, if included, or after the main body of text if no acknowledgments appear.

References The references section should be labeled "References" and should appear at the very end of the paper (don't end the paper with references, and then put a figure by itself on the last page). A sample list of references is given later on in these instructions. Please use a consistent format

for references. Poorly prepared or sloppy references reflect badly on the quality of your paper and your research. Please prepare complete and accurate citations.

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Figures, drawings, tables, and photographs should be placed throughout the paper near the place where they are first discussed. Do not group them together at the end of the paper. If placed at the top or bottom of the paper, illustrations may run across both columns. Figures must not invade the top, bottom, or side margin areas. Figures must be inserted using your page-formatting software. Number figures sequentially, for example, figure 1, and so on.

The illustration number and caption should appear under the illustration. Leave some space between the figure and the caption and surrounding type; .25 inches should suffice. Captions should be presented in nine-point Times Roman italic. Labels, and other text in illustrations must be at least nine-point type.

Low-Resolution Bitmaps. You may not use low-resolution (such as 72 dpi) screen-dumps and GIF files—these files contain so few pixels that they are always blurry, and illegible when printed. If they are color, they will become an indecipherable mess when converted to black and white. This is always the case with gif files, which should never be used. The resolution of screen dumps can be increased by reducing the print size of the original file while retaining the same number of pixels. You can also enlarge files by manipulating them in software such as PhotoShop. Your figures should be a minimum of 266 dpi when incorporated into your document.

L^AT_EX Overflow. L^AT_EX users please beware: L^AT_EX will sometimes put portions of the figure or table or an equation in the margin. If this happens, you need to scale the figure or table down, or reformat the equation. Check your log file! You must fix any overflow into the margin (that means no overfull boxes in L^AT_EX). If you don't, the overflow text will simply be eliminated. **Nothing is permitted to intrude into the margins.**

Using Color. Your paper will be printed in black and white and grayscale. Consequently, because conversion to grayscale can cause undesirable effects (red changes to black, yellow can disappear, and so forth), we strongly suggest you avoid placing color figures in your document. Of course, any reference to color will be indecipherable to your reader.

Drawings. We suggest you use computer drawing software (such as Adobe Illustrator or, (if unavoidable), the drawing tools in Microsoft Word) to create your illustrations. Do not use Microsoft Publisher. These illustrations will look best if all line widths are uniform (half- to two-point in size), and you do not create labels over shaded areas. Shading should be 133 lines per inch if possible. Use Times Roman or Helvetica for all figure call-outs. **Do not use hairline width lines** — be sure that the stroke width of all lines is at least .5 pt. Zero point lines will print on a laser

printer, but will completely disappear on the high-resolution devices used by our printers.

Photographs and Images. Photographs and other images should be in grayscale (color photographs will not reproduce well; for example, red tones will reproduce as black, yellow may turn to white, and so forth) and set to a minimum of 266 dpi. Do not prescreen images.

References

The aaai.sty file includes a set of definitions for use in formatting references with BibTeX. These definitions make the bibliography style fairly close to the one specified below. To use these definitions, you also need the BibTeX style file “aaai.bst,” available in the author kit on the AAAI web site. Then, at the end of your paper but before \enddocument, you need to put the following lines:

```
\bibliographystyle{aaai} \bibliography{bibfile1,bibfile2,...}
```

The list of files in the \bibliography command should be the names of your BibTeX source files (that is, the .bib files referenced in your paper).

The following commands are available for your use in citing references:

\cite: Cites the given reference(s) with a full citation. This appears as “(Author Year)” for one reference, or “(Author Year; Author Year)” for multiple references.

\shortcite: Cites the given reference(s) with just the year. This appears as “(Year)” for one reference, or “(Year; Year)” for multiple references.

\citeauthor: Cites the given reference(s) with just the author name(s) and no parentheses.

\citeyear: Cites the given reference(s) with just the date(s) and no parentheses.

Warning: The aaai.sty file is incompatible with the hyperref and natbib packages. If you use either, your references will be garbled.

Formatted bibliographies should look like the following examples.

Book with Multiple Authors

Engelmore, R., and Morgan, A. eds. 1986. *Blackboard Systems*. Reading, Mass.: Addison-Wesley.

Journal Article

Robinson, A. L. 1980a. New Ways to Make Microcircuits Smaller. *Science* 208: 1019–1026.

Magazine Article

Hasling, D. W.; Clancey, W. J.; and Rennels, G. R. 1983. Strategic Explanations in Consultation. *The International Journal of Man-Machine Studies* 20(1): 3–19.

Proceedings Paper Published by a Society

Clancey, W. J. 1983b. Communication, Simulation, and Intelligent Agents: Implications of Personal Intelligent Machines for Medical Education. In *Proceedings of the Eighth International Joint Conference on Artificial Intelligence*, 556–560. Menlo Park, Calif.: International Joint Conferences on Artificial Intelligence, Inc.

Proceedings Paper Published by a Press or Publisher
Clancey, W. J. 1984. Classification Problem Solving. In *Proceedings of the Fourth National Conference on Artificial Intelligence*, 49–54. Menlo Park, Calif.: AAAI Press.

University Technical Report

Rice, J. 1986. Poligon: A System for Parallel Problem Solving, Technical Report, KSL-86-19, Dept. of Computer Science, Stanford Univ.

Dissertation or Thesis

Clancey, W. J. 1979b. Transfer of Rule-Based Expertise through a Tutorial Dialogue. Ph.D. diss., Dept. of Computer Science, Stanford Univ., Stanford, Calif.

Forthcoming Publication

Clancey, W. J. 1986a. The Engineering of Qualitative Models. Forthcoming.

Producing Reliable PDF Documents with \LaTeX

Generally speaking, PDF files are platform independent and accessible to everyone. When creating a paper for a proceedings or publication in which many PDF documents must be merged and then printed on high-resolution PostScript RIPs, several requirements must be met that are not normally of concern. Thus to ensure that your paper will look like it does when printed on your own machine, you must take several precautions:

- Use type 1 fonts (not type 3 fonts)
- Use only standard Times, Nimbus, and CMR font packages (not fonts like F3 or fonts with tildes in the names or fonts—other than Computer Modern—that are created for specific point sizes, like Times~19) or fonts with strange combinations of numbers and letters
- Embed all fonts when producing the PDF
- Do not use the [T1]fontenc package (install the CM super fonts package instead)

Traditional \LaTeX Output

Most authors using traditional \LaTeX output methods will have success by taking the following three steps in creating their paper (called, in the example, `proceedingspaper.tex`).

```
latex proceedingspaper
dvips -Ppdf -G0 -tletter proceedingspaper
ps2pdf -dPDFSETTINGS=/printer
-dCompatibilityLevel=1.4 -dMaxSubsetPct=0
-dSubsetFonts=false -dEmbedAllFonts=true
-sPAPERSIZE=letter proceedingspaper.ps
```

Note that the `ps2pdf` command should be typed all on one line. You can then proceed to distill your PostScript file into a PDF file using GhostScript or Acrobat Distiller.

If your PostScript output still includes type 3 fonts, you should run `dvips` with option “`dvips -Ppdf -G0 -o papername.ps papername.dvi`” (If your machine or site has type 1 fonts, they will probably be loaded.) Note that it is a zero following the “-G.” This tells `dvips` to use the `config.pdf` file (and this file refers to a better font mapping). If that doesn’t

work, you’ll have to download the fonts and create a font substitution list.

Creating Output Using PDF \LaTeX

PDF \LaTeX is a good alternative solution to the \LaTeX font problem. By using the PDF \TeX program instead of straight \LaTeX or \TeX , you will probably avoid the type 3 font problem altogether. PDF \LaTeX enables you to create a PDF document directly from \LaTeX source. The one requirement of this software is that all your graphics and images are available in a format that PDF \LaTeX understands (normally PDF).

PDF \LaTeX ’s default is to create documents with type 1 fonts. If you find that it is not doing so in your case, it is likely that one or more fonts are missing from your system or are not in a path that is known to PDF \LaTeX .

One problem with PDF \LaTeX , however, is that, by default, it will not embed base 14 fonts. AAAI will embed these fonts for you, but we will not be able to proofread the results. If you are concerned that font substitution may alter your paper in an adverse way (and it can), we recommend that you alter the `PDF \TeX .cfg` configuration file so that the following lines are present and uncommented:

```
map +bsr.map % CM/AMS fonts
map +bsr-interpolated.map % additional sizes
map +hoekwater.map % additional fonts
```

The base 14 Nimbus fonts can be embedded by replacing the line `map acrobat-std-adobe-suidin.map` with `map acrobat-std-urw-kb.map`. If this doesn’t work, you should look at the PDF \TeX mailing list for hints on how to configure PDF \TeX or PDF \LaTeX to properly embed the typefaces: [http://tug.org/pipermail/PDF \$\TeX\$ /2002-July/002803.html](http://tug.org/pipermail/PDF\TeX/2002-July/002803.html)

dvipdf Script Scripts such as `dvipdf` which ostensibly bypass the Postscript intermediary should not be used since they generally do not instruct `dvips` to use the `config.pdf` file.

dvipdfm Do not use this dvi-PDF conversion package if your document contains graphics (and we recommend you avoid it even if your document does not contain graphics).

Ghostscript

\LaTeX users using GhostScript should make sure that they are using v7.04 or newer. The older versions do not create acceptable PDF files on most platforms.

Graphics

If you are still finding type 3 fonts in your PDF file, look at your graphics! \LaTeX users should check all their imported graphics files as well for font problems.

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Possible Bugs in the AAAI Style File

Some users have found that the aaai.sty does not work properly at their site. They have submitted suggestions for improvement of the macro. You will find those suggestions in the buglist file that is part of author kit, and also as a separate file on the AAAI website. Some of these suggestions have already been implemented, while others seem to be dependent on individual site conditions. If you’re having problems with aaai.sty, we suggest you look at the “bug list” first. The style file is **not** guaranteed to work in all situations and on all platforms. If you make bug fixes or improvements, please let us know so that we might share them with others.

Additional Resources

L^AT_EX is a difficult program to master. If you’ve used that software, and this document didn’t help or some items were not explained clearly, we recommend you read Michael Shell’s excellent document (testflow doc.txt V1.0a 2002/08/13) about obtaining correct PS/PDF output on L^AT_EX systems. (It was written for another purpose, but it has general application as well). It is available at www.ctan.org in the tex-archive.

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Thank you for reading these instructions carefully. We look forward to receiving your electronic files!