

# L<sup>A</sup>T<sub>E</sub>X Author Guidelines for EUROGRAPHICS Proceedings Manuscripts

Please provide your submission ID here

---

## Abstract

The ABSTRACT is to be in fully-justified italicized text, between two horizontal lines, in one-column format, below the author and affiliation information. Use the word “Abstract” as the title, in 9-point Times, boldface type, left-aligned to the text, initially capitalized. The abstract is to be in 9-point, single-spaced type. The abstract may be up to 3 inches (7.62 cm) long.

Leave one blank line after the abstract, then add the subject categories according to the ACM Classification Index (see <http://www.acm.org/class/1998/>).

Categories and Subject Descriptors (according to ACM CCS): I.3.3 [Computer Graphics]: Picture/Image Generation—Line and curve generation

---

## 1. Introduction

Please follow the steps outlined in this document very carefully when submitting your manuscript to Eurographics.

You may as well use the L<sup>A</sup>T<sub>E</sub>X source as a template to typeset your own paper. In this case we encourage you to also read the L<sup>A</sup>T<sub>E</sub>X comments embedded in the document.

## 2. Instructions

Please read the following carefully.

### 2.1. Language

All manuscripts must be in English.

### 2.2. Margins and page numbering

All printed material, including text, illustrations, and charts, must be kept within a print area 7 inches (17.7 cm) wide by 9.44 inches (24 cm) high. Do not write or print anything outside the print area. Number your pages on odd sites right above, on even sites left above, no page number on the first site. Do not use page numbering within the final version of your paper.

### 2.3. Formatting your paper

All text with the exception of the abstract must be in a two-column format. The total allowable width of the text area – including header and footer lines – is 177 mm (7 inch) wide by 245 mm (9.64 inch) high.

Columns are to be 84 mm (3.3 inch) wide, with a 8 mm (0.315 inch) space between them.

The space between the header line and the first line of the text body and between the last line of the text body and the footer line is 5 mm (0.196 inch) each.

### 2.4. Type-style and fonts

Wherever Times is specified, Times Roman may also be used. If neither is available on your word processor, please use the font closest in appearance to Times that you have access to. Only Type-1 fonts will be accepted.

**MAIN TITLE.** The title should be in Times 17-point, boldface type and centered. Capitalize the first letter of nouns, pronouns, verbs, adjectives, and adverbs; do not capitalize articles, coordinate conjunctions, or prepositions (unless the title begins with such a word). Leave two blank lines after the title.

**AUTHOR NAME(s) and AFFILIATION(s)** are to be centered beneath the title and printed in Times 9-point, non-boldface type. This information is to be followed by two blank lines.

The **ABSTRACT** is to be in a one-column format. The **MAIN TEXT** is to be in a two-column format.

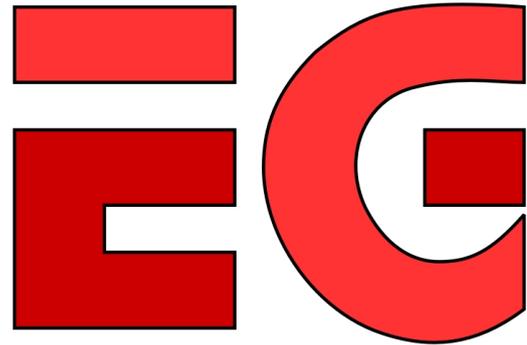
**MAIN TEXT.** Type main text in 9-point Times, single-spaced. Do *not* use double-spacing. All paragraphs should be indented 1 em (the length of the dash in the actual font). Make sure your text is fully justified – that is, flush left and flush right. Please do not place any additional blank lines between paragraphs. Figure and table captions should be 9-point Times boldface type as in Figure 2.

Long captions should be set as in Figure 1 or Figure 3.

Figures which need the full textwidth can be typeset as Figure 3.

Callouts should be 9-point Times, non-boldface type. Initially cap-

**Figure 1:** 'Empty' figure only to serve as an example of long caption requiring more than one line. It is not typed centered but aligned on both sides.



For all figures please keep in mind that you **must not** use images with transparent background!

**Figure 2:** Here is a sample figure.

52 italize only the first word of section titles and first-, second-, and  
53 third-order headings.

54 FIRST-ORDER HEADINGS. (For example, **1. Introduction**)  
55 should be Times 9-point boldface, initially capitalized, flush left,  
56 with one blank line before, and one blank line after.

57 SECOND-ORDER HEADINGS. (For example, **2.1. Language**)  
58 should be Times 9-point boldface, initially capitalized, flush left,  
59 with one blank line before, and one after. If you require a third-  
60 order heading (we discourage it), use 9-point Times, boldface, ini-  
61 tially capitalized, flush left, preceded by one blank line, followed  
62 by a period and your text on the same line.

63 The headline (*authors / title*) must be shortened if it uses the full  
64 two column width of the main text. There must be enough space for  
65 the page numbers. Please use “et al.” if there are more than three  
66 authors and specify a shortened version for your title.

## 67 2.5. Footnotes

68 Please do *not* use footnotes at all!

## 69 2.6. References

70 List all bibliographical references in 9-point Times, single-spaced,  
71 at the end of your paper in alphabetical order. When referenced in  
72 the text, enclose the citation index in square brackets, for exam-  
73 ple [?]. Where appropriate, include the name(s) of editors of refer-  
74 enced books.

75 For your references please use the following algorithm:

- 76 • **one** author: first 3 chars plus year – e.g. [?]
- 77 • **two, three** or **four** authors: first char of each family name plus  
78 year – e.g. [?] or [?] or [?]
- 79 • **more than 4** authors: first char of family name from first 3 au-  
80 thors followed by a '\*' followed by the year – e.g. [?] or [?]

81 For BibTeX users a style file `eg-alpha.bst` is available  
82 which uses the above algorithm.

## 83 2.7. Illustrations, graphs, and photographs

84 All graphics should be centered.

85 If your paper includes images, it is very important that they are  
86 of sufficient resolution to be faithfully reproduced.

87 To determine the optimum size (width and height) of an image,  
88 measure the image's size as it appears in your document (in mil-  
89 limeters), and then multiply those two values by 12. The resulting  
90 values are the optimum  $x$  and  $y$  resolution, in pixels, of the image.  
91 Image quality will suffer if these guidelines are not followed.

92 Example 1: An image measures 50 mm by 75 mm when placed

93 in a document. This image should have a resolution of no less than  
94 600 pixels by 900 pixels in order to be reproduced faithfully.

95 Example 2: Capturing a screenshot of your entire  $1024 \times 768$   
96 pixel display monitor may be useful in illustrating a concept from  
97 your research. In order to be reproduced faithfully, that  $1024 \times 768$   
98 image should be no larger than 85 mm by 64 mm (approximately)  
99 when placed in your document.

## 100 2.8. Color

101 **Please observe:** as of 2003 publications in the proceedings of the  
102 Eurographics Conference can use color images throughout the pa-  
103 per. No separate color tables are necessary.

104 However, workshop proceedings might have different agree-  
105 ments! Figure 3 is an example for creating color plates.

## 106 2.9. Embedding of Hyperlinks / Typesetting of URLs

107 Due to the use of the package `hyperref` the original behavior of  
108 the command `\url` from the package `url` is not available. To cir-  
109 cumvent this problem we either recommend to use the command  
110 `\httpAddr` from the included package `egweblnk` (see below)  
111 or to replace the command `\url` by the command `\webLink`  
112 – e.g. in cases where `\url` has been used widely in BibTeX-  
113 References. In the latter case we suggest to run BibTeX as usual  
114 and then replace all occurrences of `\url` by `\webLink`

115 The provided commands for hyperlinks, in a nutshell, are:

```
116 \httpAddr {URL without leading 'http:'}  
117 e.g. http://diglib.eg.org/EG/DL/WS
```

```
118 \ftpAddr {URL without leading 'ftp:'}  
119 e.g. ftp://www.eg.org/EG/DL/ftpupload
```

```
120 \URL {url}  
121 e.g. http://www.eg.org/EG/DL/WS
```

```
122 \MailTo {Email addr}  
123 e.g. publishing@eg.org
```

```
124 \MailToNA {emailName}@emailSiteAddress}  
125 e.g. publishing@eg.org
```

126 \webLink{URL without hyperlink creation} 178  
 127 e.g. http://www.eg.org/some\_arbitrary\_long/but\_ 179  
 128 useless/URL

## 129 2.10. PDF Generation

130 Your final paper should be delivered as a PDF document with all  
 131 typefaces embedded. L<sup>A</sup>T<sub>E</sub>X users should use dvips and ps2pdf  
 132 to create this PDF document. Adobe Acrobat Distiller may be used  
 133 in place of ps2pdf.

134 Adobe PDFWriter is *not* acceptable for use. Documents created  
 135 with PDFWriter will be returned to the author for revision. pdf-  
 136 tex and pdflatex (and its variants) can be used only if the au-  
 137 thor can make certain that all typefaces are embedded and images  
 138 are not downsampled or subsampled during the PDF creation pro-  
 139 cess.

140 Users with no access to these PDF creation tools should make  
 141 available a PostScript file and we will make a PDF document from  
 142 it.

143 The PDF file *must not* be change protected.

### 144 Configuration Notes: dvips / ps2pdf / etc.

145 dvips should be invoked with the -Ppdf and -G0 flags in order  
 146 to use Type 1 PostScript typefaces:

```
147 dvips -t a4 -Ppdf -G0 -o my.ps my.dvi
```

148 If you are using version 7.x of GhostScript, please use the following  
 149 method of invoking ps2pdf, in order to embed all typefaces and  
 150 ensure that images are not downsampled or subsampled in the PDF  
 151 creation process:

```
152 ps2pdf -dMaxSubsetPct=100 \  

    153 -dCompatibilityLevel=1.3 \  

    154 -dSubsetFonts=true \  

    155 -dEmbedAllFonts=true \  

    156 -dAutoFilterColorImages=false \  

    157 -dAutoFilterGrayImages=false \  

    158 -dColorImageFilter=/FlateEncode \  

    159 -dGrayImageFilter=/FlateEncode \  

    160 -dMonoImageFilter=/FlateEncode \  

    161 mypaper.ps mypaper.pdf
```

162 If you are using version 8.x of GhostScript, please use this  
 163 method in place of the example above:

```
164 ps2pdf -dPDFSETTINGS=/prepress \  

    165 -dCompatibilityLevel=1.3 \  

    166 -dAutoFilterColorImages=false \  

    167 -dAutoFilterGrayImages=false \  

    168 -dColorImageFilter=/FlateEncode \  

    169 -dGrayImageFilter=/FlateEncode \  

    170 -dMonoImageFilter=/FlateEncode \  

    171 -dDownsampleColorImages=false \  

    172 -dDownsampleGrayImages=false \  

    173 mypaper.ps mypaper.pdf
```

### 174 Configuration Notes: pdftex / pdflatex / etc.

175 Configuration of these tools to embed all typefaces can be accom-  
 176 plished by editing the updmap.cfg file to enable inclusion of the  
 177 standard (or base) 14 typefaces.

178 Linux users can run the updmap script to do this:

```
179 updmap -setoption pdftexDownloadBase14 true
```

180 Windows users should edit the updmap.cfg files found in their  
 181 TeX installation directories (one or both of the following may be  
 182 present):

```
183 INSTALLDIR\texmf\web2c\updmap.cfg  

    184 INSTALLDIR\localtexmf\miktex\config\updmap.cfg
```

185 Ensure the value for pdftexDownloadBase14 is "true," and  
 186 then follow the instructions found here: <http://docs.miktex.org/manual/>  
 187 to update your MikTeX installation.

### 188 Configuration Notes: Acrobat Distiller

189 We recommend to download and install the version of the "CMW"  
 190 Adobe Acrobat Distiller job options file appropriate for your oper-  
 191 ating system and version of Acrobat from the following URL:

<http://www.cadmusmediaworks.com/index2.html>

193 in the "(Operating System)/Applications/Distiller Settings" folder.  
 194 The "CMW" job options file embeds all typefaces and does not  
 195 downsample or subsample images when creating the PDF docu-  
 196 ment.

## 197 2.11. Copyright forms

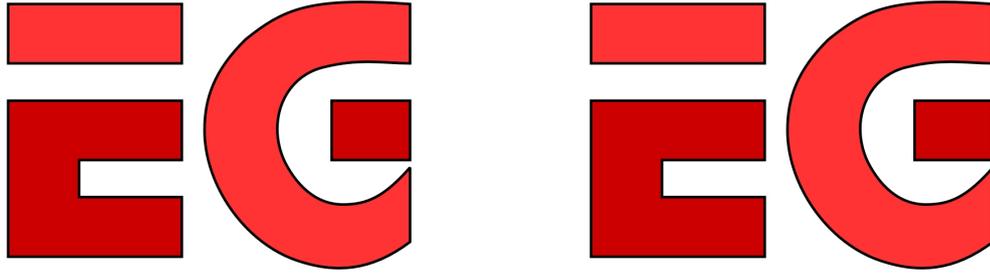
198 You must include your signed Eurographics copyright release form  
 199 when you submit your finished paper. We MUST have this form  
 200 before your paper can be published in the proceedings.

## 201 2.12. Conclusions

202 Please direct any questions to the production editor in charge of  
 203 these proceedings.

## 204 References

- 205 [BFH\*98] BUHMANN J. M., FELLNER D. W., HELD M., KETTERER  
 206 J., PUZICHA J.: Dithered color quantization. *Computer Graphics Fo-*  
 207 *rum 17*, 3 (Sept. 1998), C219–C231. (Proc. Eurographics'98) [http://](http://diglib.eg.org/EG/CGF/volume17/issue3/ColQuant98)  
 208 [diglib.eg.org/EG/CGF/volume17/issue3/ColQuant98](http://diglib.eg.org/EG/CGF/volume17/issue3/ColQuant98). doi:10.  
 209 [1111/1467-8659.00269](https://doi.org/10.1111/1467-8659.00269).
- 210 [FH93] FELLNER D. W., HELMBERG C.: Robust rendering of general  
 211 ellipses and elliptical arcs. *ACM TOG 12*, 3 (July 1993), 251–276. doi:  
 212 [10.1145/169711.169704](https://doi.org/10.1145/169711.169704).
- 213 [FvDF\*93] FOLEY J. D., VAN DAM A., FEINER S. K., HUGHES J. F.,  
 214 PHILLIPS R.: *Introduction to Computer Graphics*. Addison-Wesley,  
 215 1993.
- 216 [KSS97] KOBBELT L., STAMMINGER M., SEIDEL H.-P.: Us-  
 217 ing subdivision on hierarchical data to reconstruct radiosity dis-  
 218 tribution. *Computer Graphics Forum 16*, 3 (1997), C347–  
 219 C355. (Proc. Eurographics'97) [http://diglib.eg.org/EG/CGF/](http://diglib.eg.org/EG/CGF/volume16/issue3/CGF172.html)  
 220 [volume16/issue3/CGF172.html](http://diglib.eg.org/EG/CGF/volume16/issue3/CGF172.html). doi:10.1111/1467-8659.  
 221 [16.3conferenceissue.36](https://doi.org/10.1111/1467-8659.16.3conferenceissue.36).
- 222 [LFTG97] LAFORTUNE E. P., FOO S.-C., TORRANCE K. E., GREEN-  
 223 BERG D. P.: Non-linear approximation of reflectance functions. In  
 224 *Proc. SIGGRAPH '97* (1997), vol. 31, pp. 117–126. doi:10.1145/  
 225 [258734.258801](https://doi.org/10.1145/258734.258801).
- 226 [Lou90] LOUS Y. L.: Report on the First Eurographics Workshop on  
 227 Visualization in Scientific Computing. *Computer Graphics Forum 9*,  
 228 4 (Dec. 1990), 371–372. doi:10.1111/j.1467-8659.1990.  
 229 [tb00430.x](https://doi.org/10.1111/j.1467-8659.1990.tb00430.x).



**Figure 3:** For publications with color tables (i.e., publications not offering color throughout the paper) please **observe:** for the printed version – and **ONLY** for the printed version – color figures have to be placed in the last page. For the electronic version, which will be converted to PDF before making it available electronically, the color images should be embedded within the document. Optionally, other multimedia material may be attached to the electronic version.