IJCAI–19 Formatting Instructions

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Abstract

The *IJCAI–19 Proceedings* will be printed from electronic manuscripts submitted by the authors. The electronic manuscript will also be included in the online version of the proceedings. This paper provides the style instructions.

1 Introduction

It is common knowledge that the

1.1 Previous Work

All paper *submissions* must have a maximum of six pages, plus at most one for references. The seventh page cannot contain **anything** other than references.

The length rules may change for final camera-ready versions of accepted papers, and will differ between tracks. Some tracks may include only references in the last page, whereas others allow for any content in all pages. Similarly, some tracks allow you to buy a few extra pages should you want to, whereas others don't.

If your paper is accepted, please carefully read the notifications you receive, and check the proceedings submission information website¹ to know how many pages you can finally use (and whether there is a special references-only page or not). That website holds the most up-to-date information regarding paper length limits at all times.

1.2 Word Processing Software

As detailed below, IJCAI has prepared and made available a set of LaTeX macros and a Microsoft Word template for use in formatting your paper. If you are using some other word processing software, please follow the format instructions given below and ensure that your final paper looks as much like this sample as possible.

2 Style and Format

LATEX and Word style files that implement these instructions can be retrieved electronically. (See Appendix A for instructions on how to obtain these files.)

2.1 Layout

Print manuscripts two columns to a page, in the manner in which these instructions are printed. The exact dimensions for pages are:

• left and right margins: .75"

• column width: 3.375"

• gap between columns: .25"

• top margin—first page: 1.375"

• top margin—other pages: .75"

• bottom margin: 1.25"

• column height—first page: 6.625"

• column height—other pages: 9"

All measurements assume an $8-1/2'' \times 11''$ page size. For A4-size paper, use the given top and left margins, column width, height, and gap, and modify the bottom and right margins as necessary.

2.2 Format of Electronic Manuscript

For the production of the electronic manuscript, you must use Adobe's *Portable Document Format* (PDF). A PDF file can be generated, for instance, on Unix systems using ps2pdf or on Windows systems using Adobe's Distiller. There is also a website with free software and conversion services: http://www.ps2pdf.com. For reasons of uniformity, use of Adobe's *Times Roman* font is strongly suggested. In LATEX2e, this is accomplished by putting

\usepackage{times}

in the preamble.²

Additionally, it is of utmost importance to specify the American **letter** format (corresponding to $8-1/2'' \times 11''$) when formatting the paper. When working with dvips, for instance, one should specify -t letter.

2.3 Title and Author Information

Center the title on the entire width of the page in a 14-point bold font. The title should be capitalized using Title Case. Below it, center author name(s) in 12-point bold font. On the

¹https://proceedings.ijcai.org/info

²You may want also to use the package latexsym, which defines all symbols known from the old LaTeX version.

following line(s) place the affiliations, each affiliation on its own line using 12-point regular font. Matching between authors and affiliations can be done using numeric superindices. Optionally, a comma-separated list of email addresses follows the affiliation(s) line(s), using 12-point regular font.

Blind Review

In order to make blind reviewing possible, authors must omit their names and affiliations when submitting the paper for review. In place of names and affiliations, provide a list of content areas. When referring to one's own work, use the third person rather than the first person. For example, say, "Previously, Gottlob [1992] has shown that...", rather than, "In our previous work [Gottlob, 1992], we have shown that..." Try to avoid including any information in the body of the paper or references that would identify the authors or their institutions. Such information can be added to the final camera-ready version for publication.

2.4 Abstract

Place the abstract at the beginning of the first column 3" from the top of the page, unless that does not leave enough room for the title and author information. Use a slightly smaller width than in the body of the paper. Head the abstract with "Abstract" centered above the body of the abstract in a 12-point bold font. The body of the abstract should be in the same font as the body of the paper.

The abstract should be a concise, one-paragraph summary describing 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 200 words long.

2.5 Text

The main body of the text immediately follows the abstract. Use 10-point type in a clear, readable font with 1-point leading (10 on 11).

Indent when starting a new paragraph, except after major headings.

2.6 Headings and Sections

When necessary, headings should be used to separate major sections of your paper. (These instructions use many headings to demonstrate their appearance; your paper should have fewer headings.). All headings should be capitalized using Title Case.

Section Headings

Print section headings in 12-point bold type in the style shown in these instructions. Leave a blank space of approximately 10 points above and 4 points below section headings. Number sections with arabic numerals.

Subsection Headings

Print subsection headings in 11-point bold type. Leave a blank space of approximately 8 points above and 3 points below subsection headings. Number subsections with the section number and the subsection number (in arabic numerals) separated by a period.

Subsubsection Headings

Print subsubsection headings in 10-point bold type. Leave a blank space of approximately 6 points above subsubsection headings. Do not number subsubsections.

Titled paragraphs. You can use titled paragraphs if and only if the title covers exactly one paragraph. Such paragraphs must be separated from the preceding content by at least 3pt, and no more than 6pt. The title must be in 10pt bold font and ended with a period. After that, a 1em horizontal space must follow the title before the paragraph's text.

In LaTeX titled paragraphs must be typeset using

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\paragraph{Title.} text.
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Acknowledgements

You may include an unnumbered acknowledgments section, including acknowledgments of help from colleagues, financial support, and permission to publish. If present, acknowledgments must be in a dedicated, unnumbered section appearing after all regular sections but before any appendices or references.

Use

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\section*{Acknowledgements})
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to typeset the acknowledgements section in LATEX.

Appendices

Any appendices directly follow the text and look like sections, except that they are numbered with capital letters instead of arabic numerals. See this document for an example.

References

The references section is headed "References", printed in the same style as a section heading but without a number. A sample list of references is given at the end of these instructions. Use a consistent format for references. The reference list should not include unpublished work.

2.7 Citations

Citations within the text should include the author's last name and the year of publication, for example [Gottlob, 1992]. Append lowercase letters to the year in cases of ambiguity. Treat multiple authors as in the following examples: [Abelson *et al.*, 1985] or [Baumgartner *et al.*, 2001] (for more than two authors) and [Brachman and Schmolze, 1985] (for two authors). If the author portion of a citation is obvious, omit it, e.g., Nebel [2000]. Collapse multiple citations as follows: [Gottlob *et al.*, 2002; Levesque, 1984a].

2.8 Footnotes

Place footnotes at the bottom of the page in a 9-point font. Refer to them with superscript numbers.³ Separate them from the text by a short line.⁴ Avoid footnotes as much as possible; they interrupt the flow of the text.

³This is how your footnotes should appear.

⁴Note the line separating these footnotes from the text.

Scenario	δ	Runtime
Paris	0.1s	13.65ms
Paris	0.2s	0.01ms
New York	0.1s	92.50ms
Singapore	0.1s	33.33ms
Singapore	0.2s	23.01ms

Table 1: Latex default table

Scenario	δ (s)	Runtime (ms)
Paris	0.1	13.65
	0.2	0.01
New York	0.1	92.50
Singapore	0.1	33.33
	0.2	23.01

Table 2: Booktabs table

3 Illustrations

Place all illustrations (figures, drawings, tables, and photographs) throughout the paper at the places where they are first discussed, rather than at the end of the paper.

They should be floated to the top (preferred) or bottom of the page, unless they are an integral part of your narrative flow. When placed at the bottom or top of a page, illustrations may run across both columns, but not when they appear inline.

Illustrations must be rendered electronically or scanned and placed directly in your document. All illustrations should be understandable when printed in black and white, albeit you can use colors to enhance them. Line weights should be 1/2-point or thicker. Avoid screens and superimposing type on patterns as these effects may not reproduce well.

Number illustrations sequentially. Use references of the following form: Figure 1, Table 2, etc. Place illustration numbers and captions under illustrations. Leave a margin of 1/4-inch around the area covered by the illustration and caption. Use 9-point type for captions, labels, and other text in illustrations. Captions should always appear below the illustration.

4 Tables

Tables are considered illustrations containing data. Therefore, they should also appear floated to the top (preferably) or bottom of the page, and with the captions below them.

If you are using LATEX, you should use the booktabs package, because it produces better tables than the standard ones. Compare Tables 1 and 2. The latter is clearly more readable for three reasons:

- 1. The styling is better thanks to using the booktabs rulers instead of the default ones.
- Numeric columns are right-aligned, making it easier to compare the numbers. Make sure to also right-align the corresponding headers, and to use the same precision for all numbers.
- 3. We avoid unnecessary repetition, both between lines (no need to repeat the scenario name in this case) as well as

in the content (units can be shown in the column header).

5 Formulas

IJCAI's two-column format makes it difficult to typeset long formulas. A usual temptation is to reduce the size of the formula by using the small or tiny sizes. This doesn't work correctly with the current LATEX versions, breaking the line spacing of the preceding paragraphs and title, as well as the equation number sizes. The following equation demonstrates the effects (notice that this entire paragraph looks badly formatted):

$$x = \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i \quad (1)$$

Reducing formula sizes this way is strictly forbidden. We **strongly** recommend authors to split formulas in multiple lines when they don't fit in a single line. This is the easiest approach to typeset those formulas and provides the most readable output

$$x = \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i$$

$$+ \prod_{i=1}^{n} \sum_{j=1}^{n} j_i$$
(2)

If a line is just slightly longer than the column width, you may use the resizebox environment on that equation. The result looks better and doesn't interfere with the paragraph's line spacing:

$$x = \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i$$
 (3)

This last solution may have to be adapted if you use different equation environments, but it can generally be made to work. Please notice that in any case:

- Equation numbers must be in the same font and size than the main text (10pt).
- Your formula's main symbols should not be smaller than small text (9pt).

For instance, the formula

$$x = \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j + \prod_{i=1}^{n} \sum_{j=1}^{n} j_i + \prod_{i=1}^{n} \sum_{j=1}^{n} i_j$$
 (4)

would not be acceptable because the text is too small.

6 Algorithms and Listings

Algorithms and listings are a special kind of figures. Like all illustrations, they should appear floated to the top (preferably) or bottom of the page. However, their caption should appear in the header, left-justified and enclosed between horizontal lines, as shown in Algorithm 1. The algorithm body should be terminated with another horizontal line. It is up to the authors to decide whether to show line numbers or not, how to format comments, etc.

In LATEX algorithms may be typeset using the algorithm and algorithmic packages, but you can also use one of the many other packages for the task.

Algorithm 1 Example algorithm

Input: Your algorithm's input

Parameter: Optional list of parameters **Output**: Your algorithm's output

1: Let t = 0.

2: while condition do

3: Do some action.

4: **if** conditional **then**

5: Perform task A.

6: else

7: Perform task B.

8: end if

9: end while

10: return solution

Acknowledgments

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A LATEX and Word Style Files

The LATEX and Word style files are available on the IJCAI-19 website, http://www.ijcai19.org. These style files implement the formatting instructions in this document.

The LATEX files are ijcai19.sty and ijcai19.tex, and the BibTeX files are named.bst and ijcai19.bib. The LATEX style file is for version 2e of LATEX, and the BibTeX style file is for version 0.99c of BibTeX (not version 0.98i). The ijcai19.sty style differs from the ijcai18.sty file used for IJCAI-18.

The Microsoft Word style file consists of a single file, ijcail9.doc. This template differs from the one used for IJCAI-18.

These Microsoft Word and LATEX files contain the source of the present document and may serve as a formatting sample.

Further information on using these styles for the preparation of papers for IJCAI-19 can be obtained by contacting pcchair@ijcai19.org.

References

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