

IJCAI-24 Formatting Instructions

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Abstract

The *IJCAI-24 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

The *IJCAI-24 Proceedings* will be printed from electronic manuscripts submitted by the authors. These must be PDF (*Portable Document Format*) files formatted for 8-1/2" × 11" paper.

1.1 Length of Papers

All paper *submissions* to the main track must have a maximum of seven pages, plus at most two for references / acknowledgements / contribution statement / ethics statement.

The length rules may change for final camera-ready versions of accepted papers and differ between tracks. Some tracks may disallow any contents other than the references in the last two pages, 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 use for your final version. 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 L^AT_EX 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

L^AT_EX and Word style files that implement these instructions can be retrieved electronically. (See Section 9 for instructions on how to obtain these files.)

¹<https://proceedings.ijcai.org/info>

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" × 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 L^AT_EX2e this is accomplished by writing

```
\usepackage{times}
```

in the preamble.²

Additionally, it is of utmost importance to specify the **letter** format (corresponding to 8-1/2" × 11") when formatting the paper. When working with `dvips`, for instance, one should specify `-t letter`.

2.3 Papers Submitted for Review vs. Camera-ready Papers

In this document, we distinguish between papers submitted for review (henceforth, *submissions*) and camera-ready ver-

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

sions, i.e., accepted papers that will be included in the conference proceedings. The present document provides information to be used by both types of papers (submissions / camera-ready). There are relevant differences between the two versions. Find them next.

77 Anonymity

78 For the main track and some of the special tracks, sub-
79 missions must be anonymous; for other special tracks they
80 must be non-anonymous. The camera-ready versions for all
81 tracks are non-anonymous. When preparing your submission,
82 please check the track-specific instructions regarding
83 anonymity.

84 Submissions

85 The following instructions apply to submissions:

- 86 • If your track requires submissions to be anonymous,
87 they must be fully anonymized as discussed in the Mod-
88 ifications for Blind Review subsection below; in this
89 case, Acknowledgements and Contribution Statement
90 sections are not allowed.
- 91 • If your track requires non-anonymous submissions, you
92 should provide all author information at the time of
93 submission, just as for camera-ready papers (see be-
94 low); Acknowledgements and Contribution Statement
95 sections are allowed, but optional.
- 96 • Submissions must include line numbers to facilitate
97 feedback in the review process. Enable line numbers by
98 uncommenting the command `\linenumbers` in the
99 preamble³.
- 100 • The limit on the number of content pages is *strict*. All
101 papers exceeding the limits will be desk rejected.

102 Camera-Ready Papers

103 The following instructions apply to camera-ready papers:

- 104 • Authors and affiliations are mandatory. Explicit self-
105 references are allowed. It is strictly forbidden to add
106 authors not declared at submission time.
- 107 • Acknowledgements and Contribution Statement sec-
108 tions are allowed, but optional.
- 109 • Line numbering must be disabled. To achieve this, com-
110 ment or disable `\linenumbers` in the preamble.
- 111 • For some of the tracks, you can exceed the page limit by
112 purchasing extra pages.

113 2.4 Title and Author Information

114 Center the title on the entire width of the page in a 14-point
115 bold font. The title must be capitalized using Title Case. For
116 non-anonymous papers, author names and affiliations should
117 appear below the title. Center author name(s) in 12-point bold
118 font. On the following line(s) place the affiliations.

119 Author Names

120 Each author name must be followed by:

- 121 • A newline `\\` command for the last author.
- 122 • An `\And` command for the second to last author.
- 123 • An `\and` command for the other authors.

³New in IJCAI-24

Affiliations

After all authors, start the affiliations section by using the `\affiliations` command. Each affiliation must be terminated by a newline `\\` command. Make sure that you include the newline after the last affiliation, too.

Mapping Authors to Affiliations

If some scenarios, the affiliation of each author is clear without any further indication (e.g., all authors share the same affiliation, all authors have a single and different affiliation). In these situations you don't need to do anything special.

In more complex scenarios you will have to clearly indicate the affiliation(s) for each author. This is done by using numeric math superscripts $\{^i, ^j, \dots\}$. You must use numbers, not symbols, because those are reserved for footnotes in this section (should you need them). Check the authors definition in this example for reference.

Emails

This section is optional, and can be omitted entirely if you prefer. If you want to include e-mails, you should either include all authors' e-mails or just the contact author(s)' ones.

Start the e-mails section with the `\emails` command. After that, write all emails you want to include separated by a comma and a space, following the order used for the authors (i.e., the first e-mail should correspond to the first author, the second e-mail to the second author and so on).

You may "contract" consecutive e-mails on the same domain as shown in this example (write the users' part within curly brackets, followed by the domain name). Only e-mails of the exact same domain may be contracted. For instance, you cannot contract "person@example.com" and "other@test.example.com" because the domains are different.

Modifications for Blind Review

When submitting to a track that requires anonymous submissions, in order to make blind reviewing possible, authors must omit their names, affiliations and e-mails. In place of names, affiliations and e-mails, you can optionally provide the submission number and/or 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 as acknowledgements. Such information can be added post-acceptance to be included in the camera-ready version. Please also make sure that your paper metadata does not reveal the authors' identities.

2.5 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.

180	The abstract should be a concise, one-paragraph summary	234
181	describing the general thesis and conclusion of your paper. A	235
182	reader should be able to learn the purpose of the paper and	236
183	the reason for its importance from the abstract. The abstract	237
184	should be no more than 200 words long.	
185	2.6 Text	
186	The main body of the text immediately follows the abstract.	239
187	Use 10-point type in a clear, readable font with 1-point lead-	240
188	ing (10 on 11).	241
189	Indent when starting a new paragraph, except after major	242
190	headings.	243
191	2.7 Headings and Sections	244
192	When necessary, headings should be used to separate major	245
193	sections of your paper. (These instructions use many head-	
194	ings to demonstrate their appearance; your paper should have	
195	fewer headings.). All headings should be capitalized using	
196	Title Case.	
197	Section Headings	
198	Print section headings in 12-point bold type in the style shown	246
199	in these instructions. Leave a blank space of approximately	247
200	10 points above and 4 points below section headings. Number	248
201	sections with Arabic numerals.	249
202	Subsection Headings	250
203	Print subsection headings in 11-point bold type. Leave a	251
204	blank space of approximately 8 points above and 3 points be-	252
205	low subsection headings. Number subsections with the sec-	253
206	tion number and the subsection number (in Arabic numerals)	254
207	separated by a period.	255
208	Subsubsection Headings	
209	Print subsubsection headings in 10-point bold type. Leave a	256
210	blank space of approximately 6 points above subsubsection	257
211	headings. Do not number subsubsections.	
212	Titled paragraphs. You should use titled paragraphs if and	258
213	only if the title covers exactly one paragraph. Such para-	259
214	graphs should be separated from the preceding content by at	260
215	least 3pt, and no more than 6pt. The title should be in 10pt	261
216	bold font and to end with a period. After that, a 1em horizon-	262
217	tal space should follow the title before the paragraph's text.	263
218	In L ^A T _E X titled paragraphs should be typeset using	264
219	<code>\paragraph{Title.} text.</code>	265
220	2.8 Special Sections	266
221	Appendices	267
222	You may move some of the contents of the paper into one	268
223	or more appendices that appear after the main content, but	269
224	before references. These appendices count towards the page	270
225	limit and are distinct from the supplementary material that	271
226	can be submitted separately through CMT. Such appendices	272
227	are useful if you would like to include highly technical mat-	273
228	erial (such as a lengthy calculation) that will disrupt the flow of	274
229	the paper. They can be included both in papers submitted for	275
230	review and in camera-ready versions; in the latter case, they	
231	will be included in the proceedings (whereas the supplement-	
232	ary materials will not be included in the proceedings). Ap-	
	pendices are optional. Appendices must appear after the main	
	content. Appendix sections must use letters instead of Ara-	
	bic numerals. In L ^A T _E X, you can use the <code>\appendix</code> com-	
	mand to achieve this followed by <code>\section{Appendix}</code>	
	for your appendix sections.	
	Ethical Statement	
	Ethical Statement is optional. You may include an Ethical	
	Statement to discuss the ethical aspects and implications of	
	your research. The section should be titled <i>Ethical Statement</i>	
	and be typeset like any regular section but without being num-	
	bered. This section may be placed on the References pages.	
	Use	
	<code>\section*{Ethical Statement}</code>	
	Acknowledgements	
	Acknowledgements are optional. In the camera-ready version	
	you may include an unnumbered acknowledgments section,	
	including acknowledgments of help from colleagues, finan-	
	cial support, and permission to publish. This is not allowed	
	in the anonymous submission. If present, acknowledgements	
	must be in a dedicated, unnumbered section appearing after	
	all regular sections but before references. This section may	
	be placed on the References pages.	
	Use	
	<code>\section*{Acknowledgements}</code>	
	to typeset the acknowledgements section in L ^A T _E X.	
	Contribution Statement	
	Contribution Statement is optional. In the camera-ready ver-	
	sion you may include an unnumbered Contribution Statement	
	section, explicitly describing the contribution of each of the	
	co-authors to the paper. This is not allowed in the anonymous	
	submission. If present, Contribution Statement must be in	
	a dedicated, unnumbered section appearing after all regular	
	sections but before references. This section may be placed on	
	the References pages.	
	Use	
	<code>\section*{Contribution Statement}</code>	
	to typeset the Contribution Statement section in L ^A T _E X.	
	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 instruc-	
	tions. Use a consistent format for references. The reference	
	list should not include publicly unavailable work.	
	Order of Sections	
	Sections should be arranged in the following order:	
	1. Main content sections (numbered)	
	2. Appendices (optional, numbered using capital letters)	
	3. Ethical statement (optional, unnumbered)	
	4. Acknowledgements (optional, unnumbered)	
	5. Contribution statement (optional, unnumbered)	
	6. References (required, unnumbered)	

2.9 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].

2.10 Footnotes

Place footnotes at the bottom of the page in a 9-point font. Refer to them with superscript numbers.⁴ Separate them from the text by a short line.⁵ Avoid footnotes as much as possible; they interrupt the flow of the text.

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. They should be cropped outside L^AT_EX, otherwise portions of the image could reappear during the post-processing of your paper. When possible, generate your illustrations in a vector format. When using bitmaps, please use 300dpi resolution at least. 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 treated as 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 L^AT_EX, you should use the `booktabs` package, because it produces tables that are better 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.

⁴This is how your footnotes should appear.

⁵Note 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

2. 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 L^AT_EX 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, and the line numbers no longer match the text):

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

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

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

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:

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

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 as the main text (10pt).
- Your formula's main symbols should not be smaller than small text (9pt).

For instance, the formula

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

would not be acceptable because the text is too small.

6 Examples, Definitions, Theorems and Similar

Examples, definitions, theorems, corollaries and similar must be written in their own paragraph. The paragraph must be separated by at least 2pt and no more than 5pt from the preceding and succeeding paragraphs. They must begin with the kind of item written in 10pt bold font followed by their number (e.g.: **Theorem 1**), optionally followed by a title/summary between parentheses in non-bold font and ended with a period (in bold). After that the main body of the item follows, written in 10 pt italics font (see below for examples).

In L^AT_EX we strongly recommend that you define environments for your examples, definitions, propositions, lemmas, corollaries and similar. This can be done in your L^AT_EX preamble using `\newtheorem` – see the source of this document for examples. Numbering for these items must be global, not per-section (e.g.: Theorem 1 instead of Theorem 6.1).

Example 1 (How to write an example). *Examples should be written using the example environment defined in this template.*

Theorem 1. *This is an example of an untitled theorem.*

You may also include a title or description using these environments as shown in the following theorem.

Theorem 2 (A titled theorem). *This is an example of a titled theorem.*

7 Proofs

Proofs must be written in their own paragraph(s) separated by at least 2pt and no more than 5pt from the preceding and succeeding paragraphs. Proof paragraphs should start with the keyword “Proof.” in 10pt italics font. After that the proof follows in regular 10pt font. At the end of the proof, an unfilled square symbol (qed) marks the end of the proof.

In L^AT_EX proofs should be typeset using the `\proof` environment.

Proof. This paragraph is an example of how a proof looks like using the `\proof` environment. □

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

```

8 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 L^AT_EX algorithms may be typeset using the `algorithm` and `algorithmic` packages, but you can also use one of the many other packages for the task.

9 L^AT_EX and Word Style Files

The L^AT_EX and Word style files are available on the IJCAI–24 website, <https://ijcai-24.org/>. These style files implement the formatting instructions in this document.

The L^AT_EX files are `ijcai24.sty` and `ijcai24.tex`, and the Bib_TE_X files are named `.bst` and `ijcai24.bib`. The L^AT_EX style file is for version 2e of L^AT_EX, and the Bib_TE_X style file is for version 0.99c of Bib_TE_X (not version 0.98i).

The Microsoft Word style file consists of a single file, `ijcai24.docx`. This template differs from the one used for IJCAI–23.

These Microsoft Word and L^AT_EX 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–24 can be obtained by contacting proceedings@ijcai.org.

Ethical Statement

There are no ethical issues.

Acknowledgments

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tine, Thomas Dean, Bernhard Nebel, Daniel Pagenstecher, 444
Kurt Steinkraus, Toby Walsh, Carles Sierra, Marc Pujol- 445
Gonzalez, Francisco Cruz-Mencia and Edith Elkind. 446

447 References

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