

How to prepare a JOT manuscript: a users guide

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ABSTRACT This document illustrates how to prepare a manuscript to be submitted to the Journal of Object Technology by using the `jot.cls` (v2.5 released on 2 May, 2021) class style.

KEYWORDS Typesetting, \LaTeX JOT format style.

1. Introduction

This documentation describes the \LaTeX document class for typesetting JOT manuscripts. For an extensive introduction to \LaTeX please refer to (Lamport 1994).

The JOT class `jot.cls` is based on the \LaTeX `article.cls` class, and as such it preserves all the commands, including the standard sectioning, floats, formulas and so on. In addition, a number of JOT-specific commands are provided.

Please always use the commands provided, and do not try to redefine them as this would compromise the integrity of the document's presentation.

2. Installing the JOT style class

The installation of the JOT style class is straightforward: just include the file `jot.cls` in the main folder of your manuscript, i.e., the folder where the main \LaTeX file is located.

3. Setting the document type

A JOT manuscript is a two-column, double sided article that uses the Times 10pt font. To initialize the document just use the following command:

```
\documentclass[lineno]{jot}
```

JOT reference format:

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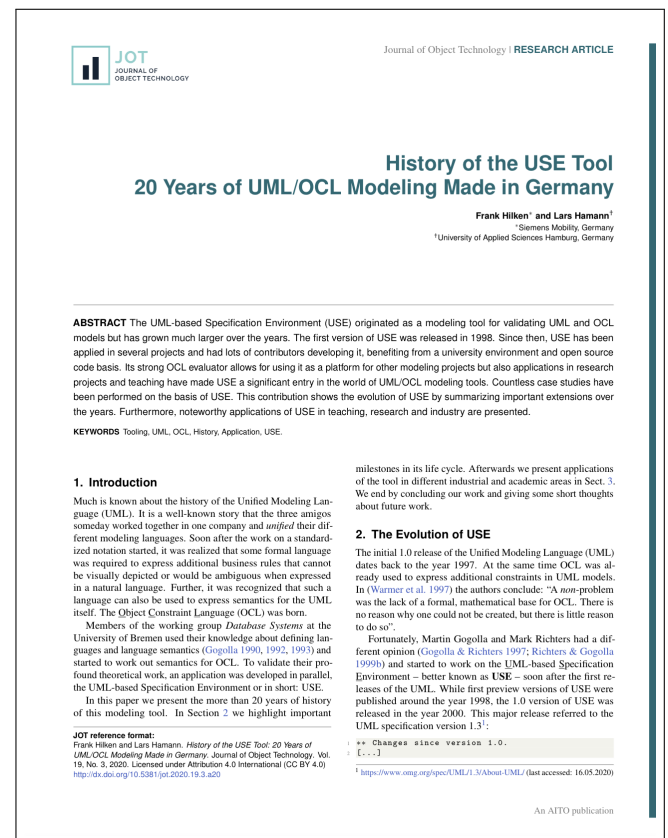


Figure 1 The title page of a JOT manuscript.

the parameter `lineno` must be removed only in the camera-

1 ready version of the paper. The first page of the manuscript
2 looks as illustrated in Fig. 1¹.

3 4. Heading

4 In this section, we describe the commands available for defining
5 the heading section of a JOT manuscript, i.e., all the content
6 that comes before the abstract.

7 4.1. Title

8 To set the title of your manuscript use the `title` command:

9 `\title{<your title>}`

10 A JOT manuscript does not have a subtitle.

11 4.2. Authors

12 Information about the paper authors is should be given as fol-
13 lows:

14 `\author[<superscript symbol>]{<author>}`

15 for instance, the following commands define the authors of the
16 paper shown in Fig. 2.

17 `\author[\ast]{Patrick M. Hanrahan}`
18 `\author[\dagger]{Yann LeCun}`
19 `\author[\ddagger]{David Patterson}`
20 `\author[\S]{John L. Hennessy}`
21 `\author[$\ast\ast$]{Martin Hellman}`

22 In case all the authors share the same affiliation, the superscript
23 symbol must be removed as follows:

24 `\author{Patrick M. Hanrahan}`
25 `\author{Yann LeCun}`
26 `\author{David Patterson}`
27 `\author{John L. Hennessy}`
28 `\author{Martin Hellman}`

29 4.3. Authors' affiliations

30 The affiliation of authors must be entered using the `affil` com-
31 mand:

32 `\affil[<superscript symbol>]{<author affiliation>}`

33 making sure to have the `<superscript symbol>` corresponds
34 to the same symbol as in the author definition. For example:

35 `\affil[\ast]{Stanford University, USA}`
36 `\affil[\dagger]{New York University, USA}`
37 `\affil[\ddagger]{University of California, USA}`
38 `\affil[\S]{Stanford University, USA}`
39 `\affil[$\ast\ast$]{Stanford University, USA}`

40 Also in this case if all the authors share the same affiliation, the
41 superscript symbol must be removed, as follows:

42 `\affil{Stanford University, USA}`

43 These commands, together with the author entries given
44 above, produce the author heading illustrated in Fig. 2. The
45 affiliation should comprise the following data:

¹ Please note that the current document is a *manual* and as such is denoted by a different header color.

- 46 – `name`,
- 47 – `city`, and
- 48 – `country`

49 the city can be omitted in case the institution is world renowned,
50 does not have a specific address, or is comprehended in the
51 name of the institution (e.g., Università degli Studi dell'Aquila).

52 4.4. Footnotes in the paper heading

53 Footnotes in the paper title, authors or affiliations are not al-
54 lowed.

55 4.5. Running head

56 In contrast with `article.cls`, the running head is not automat-
57 ically produced by the `\maketitle` command. The running
58 head information must be explicitly defined with the following
59 commands:

60 `\runningtitle{<title>}` % for use in the internal pages
61 `\runningauthor{<author(s)>}`

62 with

- 63 – `\runningauthor{<author>}`, if there is only one author;
- 64 – `\runningauthor{<author1> and <author2>}`, if there
65 are two authors;
- 66 – `\runningauthor{<author1> \textit{et al}}`, if there
67 are more than two authors.

68 4.6. Producing the header

69 After entering the `\author`, `\affil`, `\runningtitle`, and
70 `\runningauthor` described in this section, you must enter the
71 `\maketitle` command otherwise the heading won't be pro-
72 duced.

73 In order to reproduce all the information, the following list
74 of commands must be entered

75 `\maketitle`
76 `\urlstyle{rm}`

77 5. Abstract and keywords

78 The abstract and the keywords are managed as in the
79 `article.cls` class style, as follows

80 `\begin{abstract}`
81 `<the abstract text goes here>`
82 `\end{abstract}`
83 `\keywords{%`
84 `first keyword,`
85 `second keyword,`
86 `more keywords.}`

Some of the most recent Turing Awards

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Figure 2 An example of paper heading.

1 Each keyword must start with a capital letter and separated from
2 the other with a comma.

3 6. Metadata and article type

4 Each published JOT manuscript is endowed with metadata that
5 are provided after the acceptance notification.

6 6.1. Metadata definition

7 While preparing the camera ready the following command must
8 be entered with the correct information

```
9 \jotdetails{%  
10     volume=<volumenumber>,  
11     number=<issue number>,  
12     articleno=<article number>,  
13     year=<year>,  
14     license=<license code>}
```

15 where

- 16 – `articleno` can be either
 - 17 – `a1`, `a2` and so on for regular contributions, or
 - 18 – `e1` for editorials (typically one per issue);
- 19 – `license` can be either
 - 20 – `ccby`, for the CC BY 4.0,
 - 21 – `ccbynd`, for the CC BY-ND 4.0, or
 - 22 – `ccbyncnd` for the CC BY-NC-ND 4.0.

23 JOT published manuscripts are licensed under a Creative Com-
24 mons Attribution 4.0 International License and its variants,
25 which permits use, sharing, adaptation, distribution and re-
26 production in any medium or format, as long as it is given
27 appropriate credit to the original author(s) and the source, pro-
28 vide a link to the Creative Commons licence, and indicate
29 if changes were made. To view a copy of this licence, visit
30 <http://creativecommons.org/licenses/by/4.0/>.

31 6.2. Article type

32 Different kinds of manuscripts can be published in JOT. In
33 particular, the following article types are admissible²

- 34 – research contributions, i.e., peer-reviewed articles
- 35 – editorials, i.e., articles written by the journal editors-in-
36 chief that proposes visions and positions of interest for the
37 journal audience.

38 The style of the article is typographically characterized accord-
39 ing to the type. The syntax for specifying the article type is the
40 following:

```
41 \articletype{<type>}
```

42 where `type` can be either

- 43 – `regular`, or
- 44 – `editorial`

² Additional types exist, but the are mainly used for internal purposes, such as *manuals* like this document.

1. Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis convallis dictum mollis. Sed eleifend tincidunt cursus.

1.1. Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis convallis dictum mollis. Sed eleifend tincidunt cursus.

1.1.1. Lorem Ipsum Lorem ipsum dolor sit amet, consecte-
tur adipiscing elit. Duis convallis dictum mollis. Sed eleifend
tincidunt cursus.

Lorem Ipsum Lorem ipsum dolor sit amet, consectetur adip-
iscing elit. Duis convallis dictum mollis. Sed eleifend tincidunt
cursus.

Figure 3 Formats of section headings.

7. Acknowledgments

While the acknowledgments are not part of the paper heading, they are usually entered in the preamble of after the abstract although they are printed right before the References section. The syntax is the following:

```
\acknowledgment{<acknowledgment text>}
```

Alternatively, the following command aliases can be used

```
\acknowledgments  
\acknowledgement  
\acknowledgements
```

with the same behaviour as `\acknowledgment`.

8. Author short bio

A short bio of the authors (in the same order as in the title) must be included at the end of the paper, after the references, as follows:

```
\section*{About the authors}  
\shortbio{<author>}{%  
    <short bio>  
    \authorcontact[homepage]{email}}
```

where `\authorcontact` is used to provide the `homepage` (optional) and the `email`.

9. Sectioning

As in the `article.cls` class, `jot.cls` offers the following sectioning commands

```
– \section{<section title>}  
– \subsection{<subsection title>}  
– \subsubsection{<subsubsection title>}  
– \paragraph{<paragraph title>}
```

For instance, an example of sectioning with the previous commands is illustrated in Fig. 3.

10. Figures, Tables and listings

The `jot.cls` class supports `{figure}`, `{figure*}` (two column wide figure), `{table}`, `{table*}`, and `{tabular}` environments. In addition, the `{listing}` environment is provided by default, which means that there is no need to import the package in the main TeX file.

10.1. Tables

The `jot.cls` class style supports the `{table}`, `{table*}`, and `{tabular}` environments. A recommendation of how tables should be displayed is shown in Table 1. In this example the table spans along the two columns, to show how the `{table*}` environment works.

Moreover, tables in all JOT manuscripts should conform to the following guidelines:

- the header font is `\textbf`,
- the font in the cells is `\normalfont`,
- there are not external left and right border lines
- all the other lines are single, and finally
- the bottom border in the header is a double line.

10.2. Figures

The `{figure}` and `{figure*}` environments work exactly as those defined in the `article.cls` class style.

10.3. Listings

Code listings are produced with the `listings` package that is pre-loaded and pre-configured by the `jot.cls` class, and therefore it is not necessary to import it.

Listing 1 shows an example of a Python program that displays the Fibonacci sequence.

```
# Python program to display the Fibonacci
sequence
def recur_fibo(n):
    if n <= 1:
        return n
    else:
        return(recur_fibo(n-1) + recur_fibo(n-2))
nterms = 10
# check if the number of terms is valid
if nterms <= 0:
    print("Plese enter a positive integer")
else:
    print("Fibonacci sequence:")
    for i in range(nterms):
        print(recur_fibo(i))
```

Listing 1 Displaying the Fibonacci sequence in Python.

The L^AT_EX code fragment that produces Listing 1 is the following:

```
\begin{lstlisting}[
    language=Python,
    caption=Fibonacci sequence.]
# Python program to display the Fibonacci sequence
def recur_fibo(n):
    if n <= 1:
        return n
    else:
```

```
        return(recur_fibo(n-1) + recur_fibo(n-2))
nterms = 10
# check if the number of terms is valid
if nterms <= 0:
    print("Plese enter a positive integer")
else:
    print("Fibonacci sequence:")
    for i in range(nterms):
        print(recur_fibo(i))
\end{lstlisting}
```

The listing can also span over the two column by adding the following option

```
float=*
```

The outcome is shown in Listing 2.

11. Getting the JOT L^AT_EX template

The JOT L^AT_EX template can be obtained from the JOT website³ under the section "author" where the submission guidelines are given.

Acknowledgments

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References

Lamport, L. (1994). *Latex: a document preparation system: user's guide and reference manual*. Addison-Wesley.

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³ <http://www.jot.fm>

Year	Recipient	Rationale
2019	Pat Hanrahan	For fundamental contributions to 3-D computer graphics, and the revolutionary impact of these techniques on computer-generated imagery (CGI) in filmmaking and other applications
	Edwin Catmull	
2018	Yann LeCun	For conceptual and engineering breakthroughs that have made deep neural networks a critical component of computing
	Geoffrey Hinton	
	Yoshua Bengio	
2017	David Patterson	For pioneering a systematic, quantitative approach to the design and evaluation of computer architectures with enduring impact on the microprocessor industry
	John L. Hennessy	
2016	Tim Berners-Lee	For inventing the World Wide Web, the first web browser, and the fundamental protocols and algorithms allowing the Web to scale

Table 1 Recent recipients of the Turing Award.

```

1 # Python program to display the Fibonacci sequence
2 def recur_fibo(n):
3     if n <= 1:
4         return n
5     else:
6         return(recur_fibo(n-1) + recur_fibo(n-2))
7 nterms = 10
8 # check if the number of terms is valid
9 if nterms <= 0:
10    print("Plese enter a positive integer")
11 else:
12    print("Fibonacci sequence:")
13    for i in range(nterms):
14        print(recur_fibo(i))

```

Listing 2 Displaying the Fibonacci sequence in Python.