

# How to Use a LaTeX Class File for JACIII (jaciarticle.cls)

Fuji Technology Press Ltd.  
http://homepage3.nifty.com/fujiipress/

This guide is for jaciarticle.cls for the Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII).

## 1 Introduction

The class file *jaciarticle.cls* is for those who contribute papers to the *Journal of Advanced Computational Intelligence and Intelligent Informatics*, published by Fuji Technology Press Ltd. This class file applies to articles with L<sup>A</sup>T<sub>E</sub>X2 $\epsilon$  version 3.14 and after. This file is for the JACIII format, and must be used as is.

The class file consists of

*jaciarticle.cls*          class file for articles  
*jaciarticlefont.clo*

*jaciarticlefont.clo*, an auxiliary file, is required to use *jaciarticle.cls* correctly, so *jaciarticlefont.clo* must be used together with *jaciarticle.cls* in the same folder (directory).

## 2 Article Formats

JACIII contributors are strongly urged to use *jaciarticlefont.clo* and *jaciarticle.cls*. Options for JACIII articles are shown in **Table 1**.

For example, an ordinary paper begins with

```
\documentclass{jaciarticle}.
```

An option *referee* has been prepared to hide information about authors, such as author names. This option can be used either by itself or with other options: e.g.,

```
\documentclass[referee,review]{jaciarticle}.
```

Format	Option
<i>Paper</i>	paper (default)
<i>Review paper</i>	review
<i>Development paper</i>	development
<i>Letter</i>	letter
<i>Note</i>	note

Table 1: Formats and options.

Use this option to withhold the names of authors from referees.

### 2.1 Template for JACIII Articles

The template file (template.tex) is contained in the same folder as this manual and the class files. The manuscript structure is also shown on the last page. Command meanings and use are as follows:

\SetVolumeNumber{*Volume, Number*}

This specifies the volume and number, e.g.:  
`\SetVolumeNumber{Vol.1 No.1, 2003}`.  
This information is provided only after a paper is accepted, and the contributor need not use it during submission.

\setcounter{page}{*page number*}

This sets the first page number, e.g.:  
`\setcounter{page}{100}`.  
You need not specify this during submission.

\title{*English title*}

Write the title of your article in English here. Note that **you must capitalize the first letter of each word, except for prepositions, conjunctions, and articles.**<sup>1</sup>

You can insert a linebreak in the title by using `\\`.

\author{*list of author names*}

<sup>1</sup>The first letter of the first word in the title is always capitalized, regardless of its grammatical function.

Write author names as

`\author{1st author, ... , and last author}`.

**Be sure to insert a comma (,) in front of “and last author”.** To associate author names correctly with the addresses described below, add asterisk (\*) as superscripts to author names as follows:

`author1$^*$, and author2$^{**}$.`

This is not necessary if all authors have the same address.

`\address{list of addresses and E-mail addresses}`

Here the affiliations, addresses, and e-mail addresses of authors should be written as follows:

```
\address{$^*$Fuji Technology Press Ltd.,
4F Toranomom Sangyo Bldg.
2-29, Toranomom 1-chome, Minato-ku,
Tokyo 105-0001, Japan \\
E-mail: TAE00762@nifty.ne.jp \\
$^{**}$ (the second address)
...}
```

Each asterisk above should match that of the corresponding author already defined in `\author`.

`\dates{the day of receipt}{the day of acceptance}`

This is left blank at submission.

`\markboth{header (author name)}{header (title)}`

This determines how author names and the title appear in the header. When authors number three or fewer, write this as follows:

`\markboth{Hayashi, K., author2}{title}.`

Note that the name must be written in the order {family name, given name}, that the given name must be abbreviated to its initial letter, and that the family name and given name must be separated by a comma (.). If authors number more than three, add “et al.” after the name of the first author:

`\markboth{Hayashi, K. et al.}{title}`

The title must be the same as that in `\title`, except for the use of linebreaks.

`\pagestyle{jaciiiarticle}`

This is required to read the JACIII page style, and **cannot be omitted**. For options, see the beginning of this section.

`\maketitle`

This outputs the title in JACIII format.

`*abstract`

This sets the environment for the abstract.

`*keywords`

This sets the environment for keywords. Keywords must be separated by a comma and a space, e.g.:

`keyword1, keyword2, keyword3`

All keywords except proper nouns must be lowercased.

`\acknowledgements`

Acknowledgements, if any, must be written here.

## 3 Headlines

The first letter of *each* word in headlines, i.e. titles of sections, subsections, etc, must be capitalized, the same as for titles. Prepositions, conjunctions, and articles are not capitalized.

## 4 Figures and Tables

Figures and tables are usually placed at the top of a page. Table captions are set flush left over tables. Figure captions are set flush left under figures. In captions, *only* the first letter of the *first word* is capitalized. Captions are ended by a period, the same as for regular sentences.

```

\begin{figure}[t]
\begin{center}
\epsfig{file=fig1.eps,width=90mm}
\end{center}
\caption{Caption for fig1.}
\label{fig1}
\end{figure}

```

```

\begin{table}[t]
\begin{center}
\caption{Caption for table1.}
\begin{tabular}{lcr}
    (contents of the table)
\end{tabular}
\label{table1}
\end{center}
\end{table}

```

Only *.eps* and *.jpg* files are included. Use either the `graphicx` or `epsfig` package to include graphics, e.g., add the following command just under the `\documentclass{jaciiiarticle}`:

```
\usepackage{graphicx}
```

Figure files must be contained in the folder named “fig”, which is a subfolder of the top folder in which the `TeX`source file is located. For details on folder structure, see section 7.

Only the following PS fonts are used in *PostScript* files:

Courier, Courier-Bold, Courier-Oblique,  
 Courier-BoldOblique, Helvetica, Helvetica-Bold,  
 Helvetica-Oblique, Helvetica-BoldOblique,  
 Times, Times-Bold, Times-Italic, Times-BoldItalic,  
 Symbol, ZapfDingbats

When using other *PS*, *TrueType* or *OpenType* fonts, be sure to write them down explicitly.

Note the following about the incorporation of figures and pictures: Line art must be included so that the size and thickness of letters are balanced with those of the main text.

Pictures may deteriorate clarity or cause unwanted extra lines to be added due to differences in resolution

between printer hardware used by contributors and JACIII publisher.

When referencing a figure or table number in text, **boldface it** by using `\bf` or `\textbf`:  
 At the beginning of the sentences, use `{\bf Figure 1}`, `{\bf Table 1}`; within sentences, use `{\bf Fig. 1}`, `{\bf Table 1}`.

## 5 Mathematical Expressions

Note that mathematical expressions must not become so long that they exceed the document width.

For use of the American Mathematical Society (AMS) style file: We accept the following fonts applying the *amsfonts* style:

```

msam5, msam6, msam7, msam8, msam9, msam10
msbm5, msbm6, msbm7, msbm8, msbm9, msbm10

```

## 6 References

### 6.1 Not Using BibTeX

The description of `\bibitem` for this journal is as follows:

```
\bibitem[jml:86] J. R. Quinlan, ...
```

References are numbered in the order cited. Cite multiple references together as [3,4] and [3-6], instead of [3][4] or [3][4][5][6]. The default cite package generates [1-3] from

```
\cite{ref:1,ref:2,ref:3}.
```

### 6.2 Using BibTeX

Specify

```

\bibliography{btxsampl} %% filename of .bib
\bibliographystyle{jsai}
%% specification of jsai.bst style

```

at the fixed place in the bibliography.

An example of the database file (.bib) follows:

```

@Article{jml:86,
author="J. R. Quinlan",
title="Induction of Decision Trees",
journal="Machine Learning",
year=1986,
volume=1,
pages="81--106"
}
@Book{tex:1,
author="Y. Otobe, and S. Eguchi",
title="LaTeX 2e for WINDOWS",
publisher="Soft Bank Company",
year=1997
}

```

## 7 File Submission

For details on the submission of manuscripts and files, see instructions such as “Guideline for Electronic Submission,” which can be downloaded from our homepage.

Note the following when submitting files: The manuscript  $\text{\TeX}$ file should be consolidated into one file. Do not `\include` or `\input` other files in the main file. Do not use private or personal macros unless absolutely necessary. In such a case, append source codes required to compile the  $\text{\TeX}$ file correctly.

When using packages not available at general sites, be sure to include the style file used with your submission. Such packages may not necessarily be used in final typesetting.

Your careful consideration of the use of special packages would be deeply appreciated.

Be sure to provide .ps and .eps files for figures and .bbl files created by Bib $\text{\TeX}$ .

Submitted files are to be provided in the following directory structure:

- $\text{\TeX}$ source file and bbl file (if any): Include in the main directory (folder),
- figure files such as .eps and .jpg: in the directory named “fig” which should be made a subdirectory of the above main directory, i.e., “main directory/fig”.

```

\documentclass[paper]{jaciiiarticle}

\SetVolumeNumber{Volume, Number}
\setcounter{page}{page number}

\title{English title}
\author{list of author names}
\address{list of addresses and E-mail addresses}
\dates{the day of receipt}{the day of acceptance}
\markboth{header (author names)}{header (title)}

\begin{document}
\pagestyle{jaciiiistyle}
\maketitle

\begin{abstract}
    (abstract)
\end{abstract}

\begin{keywords}
    (keywords)
\end{keywords}

    (main text)

\acknowledgements
    (acknowledgements)

\begin{thebibliography}{??}
    \bibitem{}
    \bibitem{}
\end{thebibliography}

```

Manuscript structure.