

How to use class files for academic conference proceedings

Information System Operation Committee (Mathematical Society of Japan)*

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1. Introduction

This is a simple documentation of class file msjproc.cls version 1.0.1 for the abstract collection of the Mathematical Society of Japan Annual Meeting and the Autumn General Subcommittee¹.

This class file is intended to provide a standard template for creating academic conference proceedings. If you follow the format of the abstract [2], you will not necessarily be required to write the proceedings.

1.1. Class file specifications

- It conforms to the Mathematical Society of Japan Abstract Form (revised in October 2011).

Paper size : A4 (width 210 mm × height 297 mm)

Body size : Width 155mm × Height 247mm

Extra White : Left and right margins 27.5mm, Top and bottom margins 25mm

Title width : Within 135mm

Font size : 12pt (default)

Page number : None

- It works with both $\text{\LaTeX}2\epsilon$ and $\text{p}\text{\LaTeX}2\epsilon$ (Japanese $\text{\LaTeX}2\epsilon$). As for $\text{p}\text{\LaTeX}2\epsilon$, whether it works or not is automatically determined. $\text{\LaTeX}2\epsilon$ および $\text{p}\text{\LaTeX}2\epsilon$

*The revised abstract format will be applied after the 2012 annual meeting.

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¹This document itself is also created using the class file msjproc.cls with [english] option.

*Old Japanese \LaTeX , such as \LaTeX 2.09, $\text{p}\text{\LaTeX}$ 2.09, NTT $\text{j}\text{\LaTeX}$, and Lambda, $\text{L}\text{\LaTeX}$ $\text{E}\text{\TeX}$, $\text{X}\text{\LaTeX}$ does not work with Unicode-based \LaTeX such as \LaTeX . $\text{pdf}\text{\LaTeX}$ etc. seems to work in general.

1.2. Download and install

You can download the archive file of the conference proceedings class from

<https://www.mathsoc.jp/activity/meeting/textstyle/>

Class files should be upgraded for each meeting. Please use the latest one for posting.

When the archive file is expanded, it looks like Figure 1.

```

mathsoc_v1.0.0/
├─ howto_ja.pdf          this document
├─ abstract_2011.pdf     Society Abstract Format (Revised October 2011)
├─ euc/                  EUC Kanji code version folder
│   ├── msjproc.cls      Class file for conference proceedings
│   ├── howto_ja.tex      $\text{\LaTeX}$  source file for this document
│   ├── howto_ja.bib      $\text{jBib}\text{\TeX}$  source file for this document
│   ├── sample_en.tex    Sample file (for English)
│   └── sample_ja.tex    Sample file (for Japanese)
├─ sjis/                  Shift JIS Kanji code version folder
│   ├── msjproc.cls      Class file for conference proceedings
│   ├── howto_ja.tex      $\text{\LaTeX}$  source file for this document
│   ├── howto_ja.bib      $\text{jBib}\text{\TeX}$  source file for this document
│   ├── sample_en.tex    Sample file (for English)
│   └── sample_ja.tex    Sample file (for Japanese)
└─ utf8/                  (UTF-8) Kanji code version folder
    ├── msjproc.cls      Class file for conference proceedings
    ├── howto_ja.tex      $\text{\LaTeX}$  source file for this document
    ├── howto_ja.bib      $\text{jBib}\text{\TeX}$  source file for this document
    ├── sample_en.tex    Sample file (for English)
    └── sample_ja.tex    Sample file (for Japanese)

```

Figure 1: Archive file structure

Please use Class file `msjproc.cls` with the appropriate character code for your \LaTeX system in the same folder as the \LaTeX source. You do not need to install on the system.

*The line feed code of EUC Kanji code version and Unicode (UTF-8) version is LF (0x0A). The line feed code for of Shift JIS is CR + LF (0x0D, 0x0A).

1.3. Main style files that have been confirmed to work

We have confirmed that the following style files do not conflict with this class files.

Multilingual environment `babel.sty`

Layout `multicol.sty`

Font `times.sty`, `txfonts.sty`, `pxfonts.sty`, `utf.sty`, `otf.sty`

Math font `amsfonts.sty`, `amssymb.sty`, `amsbsy.sty`, `eucal.sty`, `eufrak.sty`,
`euscript.sty`, `rsfs.sty`

Mathematics `amsmath.sty`, `amsthm.sty`, `amscd.sty`, `amsgen.sty`, `amsopn.sty`

Graphics `graphics.sty`, `graphicx.sty`, `pstricks.sty`, `epic.sty`, `eepic.sty`

*It does not mean that you cannot use other than the above style files.

*Style files that change the page layout such as margins cannot be used. (If the layout is changed, an error will occur.)

2. Instructions

To use this conference proceeding class file, please do as follows.

```
\documentclass{msjproc}
\begin{document}
:
\end{document}
```

This class file is in English mode when compiled with $\text{\LaTeX}2\epsilon$ and in Japanese mode when compiled with $\text{p}\text{\LaTeX}2\epsilon$. If you want to write an English manuscript with $\text{p}\text{\LaTeX}2\epsilon$.

```
\documentclass[english]{msjproc}
```

Or specify the english option in the `babel.sty` package.

```
\documentclass{msjproc}
\usepackage[english]{babel}
```

2.1. Class file options

The following can be specified as options for `\documentclass`

<code>english</code>	: Force to operate in English mode
<code>12pt</code>	: Typeset body at 12pt (default)
<code>11pt</code>	: Typeset body with 11pt
<code>10pt</code>	: Typeset body at 10pt (deprecated)
<code>kikaku</code> , <code>sougou</code>	: For general lectures and special lectures

*Even if 11pt or 10pt is specified as an option, the title, author name, etc. will always be typeset in 12pt mode.

Title	: <code>\Large</code>	(17pt)
Author/Affiliation	: <code>\normalsize</code>	(12pt)
Email	: <code>\small</code>	(11pt)

2.2. How to write a bibliography

To describe references the `thebibliography` environment and `\bibliography` command are available to use the output of $\text{BIB}\text{\TeX}$ / $\text{jBIB}\text{\TeX}$. Especially, bibliographic style files (BST file) is not contained, so please use the legacy one.

2.3. Specification change/extension function

Though this class file is made based on `article.cls` and `jarticle.cls` which is standard for $\text{\LaTeX}2\epsilon$ / $\text{p}\text{\LaTeX}2\epsilon$, the description method such as title/author information is partially different. The commands that have been changed or extended/added from the \LaTeX / $\text{p}\text{\LaTeX}$ are as follows.

`\author{name}{affiliation}`

`\author` If you write the command as many as the number of authors, it will be output vertically.

`\maketitle` Write before the `\maketitle` command.

`\address{contact}`

The contact information of the author specified by the previous `\author` command is displayed in the footnote.

Write before the `\maketitle` command.

`\email{email address}`

Displays the author's email address specified in the previous `\author` command in the footnote. Write before the `\maketitle` command.

`\webpage{webpage URL}`

Displays the author's web page URL specified in the previous `\author` command in the footnote. Write before the `\maketitle` command.

`\thanks{comment}`

This is an instruction used to describe Kakenhi and other grants, and will be displayed in the footnote. Write before the `\maketitle` command.

`\keywords{keyword list}`

Specify one or more keywords separated by commas. Appears in footnotes on page 1. However, nothing is output if it is not used. It is the same operation as AMS class file `amsart.cls`. Write before the `\maketitle` command.

`\subjclass{code list}`

`\subjclass[version]{codelist}`

Specify the AMS Mathematics Subject Classification code separated by commas. It is output in the footnote on the first page, but nothing is output if it is not used. Bar You can specify 1991, 2000, and 2010 as version. The default value is 2000. It works the same as the AMS class file `amsart.cls`. Write before the `\maketitle` command.

abstractenvironment

Used to write an overview of the proceedings

You can write after the `\maketitle` command like the class files `article.cls`, `jarticle.cls` You can also write before the `\maketitle` command, such as in the AMS class file `amsart.cls`.

Theorem environment

Only when theorem environment is operating using `\newtheorem` in Japanese mode, alphabetic characters are output in Roman (`\upshape`) instead of Italic (`\itshape`). This is the same as specifying `\theoremstyle{definition}` in `amsthm.sty`.

For specific writing, please refer to `sample_ja.tex` and `sample_en.tex` in the archive.

2.4. Functional restriction

Some functions included in $\text{\LaTeX}2\epsilon$ standard class files `article.cls`, `jarticle.cls` are disabled.

- `draft` option is not available.
- Due to the title notation, `twocolumn` option cannot be used. If you want to, please use `multicol.sty`.
- You can select anything other than `empty` style (default value) with `\pagestyle` command.
- If you change the margins etc. in the source file, an error will occur. It will be checked. The variables are as follows.

<code>\textwidth</code>	<code>\headheight</code>	<code>\evensidemargin</code>
<code>\textheight</code>	<code>\headsep</code>	<code>\oddsidemargin</code>
<code>\topmargin</code>	<code>\footskip</code>	

- You cannot use the `\enlargethispage` command to temporarily increase the page height.

3. Miscellaneous

3.1. Known bug

The following bugs exist in this class file.

- If you use the `\footnote` command in `abstract` environment, depending on where you write `\maketitle`, the order in which the footnotes are numbered may be different. As a general rule, in `abstract` environment, do not use the `\footnote` command.

3.2. About copyright

1. Writings of class files and documents included in this package for academic conference proceedings The copyright belongs to the Mathematical Society of Japan.
2. There are no particular restrictions on duplication and redistribution by users. It is prohibited to redistribute for a fee except for the minimum necessary cost.

3.3. contact information

To report bugs such as class file bugs and conflicts with existing style files, please contact the following for information and requests for improvement.

Mathematical Society of Japan
Information System Operation Committee
 e-mail: texstyle@mathsoc.jp (for class file inquiry only)

References

- [1] The Mathematical Society of Japan. Class file for conference proceedings. (<https://www.mathsoc.jp/activity/meeting/texstyle/>).
- [2] The Mathematical Society of Japan. Society abstract format, 2011. (https://www.mathsoc.jp/meeting/texstyle/abstract_2011.pdf).