$ET_E X 2_E$ Classes for the Journal of Machine Learning Research

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1 Introduction

\jmlrprehyperref

The jmlr class is for articles that need to be formatted according to the Journal of Machine Learning Research style. This class is based on the jmlr2e and jmlrwcp2e packages but has been adapted to enable it to work better with the combine class to collate the articles into a book. Section 3 describes how to use the jmlr class.

The jmlrbook class is for combining JMLR articles into a book. This class uses combine and hyperref, which are troublesome enough on their own but together are quite fragile. The jmlrbook class redefines some internals to get combine and hyperref to work together but some packages (e.g. subfig and pdfpages) are likely to mess everything up and cause errors. This is why the guidelines to authors are fairly stringent and why jmlr will give an error message if certain packages are loaded.¹ The jmlrbook class works best with PDFIATEX so authors should ensure that their articles can compile with PDFIATEX. Section 4 describes how to use the jmlrbook class.

Note that the jmlr (and therefore jmlrbook) class automatically loads the hyperref package, but some packages need to be loaded before hyperref.

Anything that needs to be done before hyperref is loaded can be specified by defining the command

\jmlrprehyperref

Construction to be deal to a construct to be defined at

before the class is loaded. For example, to load the packages foo and bar before hyperref, you can do:

```
\newcommand{\jmlrprehyperref}{\usepackage{foo,bar}}
\documentclass{jmlr}
```

The makejmlrbook Perl script can be used to make a book that uses the jmlrbook class. In addition to creating the print and online versions of the book, it will compile the individual articles, running $BibT_EX$ where necessary, and create a set of HTML files containing a list of all the articles imported into the book along with links to the abstracts and PDFs of the individual articles. Section 4.6 describes how to use the makejmlrbook application.

2 Required Packages

The jmlr class is based on the scrartcl class and loads the following packages: amsmath, amssymb, natbib, url, graphicx and algorithm2e, hyperref, nameref and xkeyval. Note that unlike the jmlr2e and jmlrwcp2e packages, this class file does not load the obsolete epsfig package.

¹Currently jmlr will check if subfig, pdfpages, geometry, psfig, epsfig and theorem are loaded and will throw an error. If other packages are found to be a problem, they will be added to the list.

The jmlrbook class additionally loads the combine class and the following packages: combnat, setspace and fink.

The make jmlrbook script requires Perl, TFX and TFX4ht.

3 Guidelines for Article Authors

Article authors should use the jmlr class. This class comes with example files jmlr-sample.tex and jmlrwcp-sample.tex, which can be used as templates.

The following class options are available:

nowcp The article is for the Journal of Machine Learning Research (default).

wcp The article is for JMLR Workshop and Conference Proceedings.

twocolumn Use two-column style.

onecolumn Use one-column style (default).

color Color version (see Section 3.11).

gray Grayscale version (see Section 3.11).

tablecaption=top in a table environment, \floatconts puts the caption at the top.

tablecaption=bottom in a table environment, \floatconts puts the caption at the bottom.

3.1 Title Information

The jmlr class uses different syntax from jmlr2e and jmlrwcp2e to specify the title information. In particular, it doesn't define \jmlrheading and \ShortHeading. Instead, the following commands should be used:

\jmlrvolume

\jmlrvolume{(number)}

This specifies the volume number. For example:

 $\ \$

\jmlryear

$\glashift \ \glashift \ \gla$

This specifies the year. For example:

\jmlryear{2010}

\jmlrsubmitted	\jmlrsubmitted{\date\}
	This specifies the submission date.
\jmlrpublished	\jmlrpublished{\date\}
	This specifies the publication date.
\jmlrworkshop	\jmlrworkshop{\ <i>title</i> }}
	This specifies the workshop title (for use with the wcp class option). The title information is specified using the commands described below. These commands should typically go in the preamble. As with most class files, The title it- self is produced using
\maketitle	\maketitle
	This command should go after \begin{document}. For example: \begin{document} \maketitle
	Before $\mbox{maketitle}$, you must specify the title information using the following commands:
\title	<pre>\title[(short title)]{(title)}</pre>
	This specifies the article's title. A short title for the page header can be supplied via the optional argument (<i>short title</i>). If you want to force a line break in the title, use
\titlebreak	\titlebreak
	instead of \newline or $\$ as this will ensure that the line break doesn't also end up in the table of contents or bookmarks when the article is included in a book.
\editor	\editor{< <i>name</i> }}
	This specifies the editor's name. If there is more than one editor, use:
\editors	\editors{\(names\)}
\ . .	$\left(author speed \right)$
\author	\author{(<i>author specs</i>)}
	This specifies the author. The specifications (<i>author specs</i>) are a bit different to jmlr2e and jmlrwcp2e. Use

4

\Name

\Name [(abbreviated name)] {(author's name)}

to specify the author's name. Note that if the surname contains a space it must be grouped (enclosed in braces {}). Similarly if the initial letter of each forename is a diacritic it must be grouped. If the abbreviation of the name doesn't get parsed properly you can override the default using the optional argument. (See below for examples.)

\Email

\Email{(*author's email*)}

This specifies the author's email address. It should only be used within the argument to $\$

\and \and

This should be used to separate two authors with the same address.

\AND

\AND

This should be used to separate authors with different addresses.

// //

This should be used before an author's address or between authors with the same address where there are more that two authors.

\addr \addr

This should be used at the start of the address.

Example 1 Two authors with the same address:

```
\author{\Name{Jane Doe} \Email{abc@sample.com}\and
    \Name{John {Basey Fisher}} \Email{xyz@sample.com}\\
    \addr Address}
```

In this example, the second author has a space in his surname so the surname needs to be grouped.

Example 2 Three authors with the same address:

```
\author{\Name{Fred Arnold {de la Cour}} \Email{an1@sample.com}\\
    \Name{Jack Jones} \Email{an3@sample.com}\\
    \Name{{\'E}louise {\'E}abhla Finchley} \Email{an2@sample.com}\\
    \addr Address}
```

In this example, the third author has an accent on her forename initials so grouping is required. **Example 3** Authors with a different address:

```
\author{\Name{John Smith} \Email{abc@sample.com}\\
  \addr Address 1
  \AND
  \Name{May Brown} \Email{xyz@sample.com}\\
  \addr Address 2
}
```

Example 4 The author is actually a company so there's no first name and surname:

```
\author{\Name[Some Company, Ltd]{Some Company, Ltd}\Email{xyz:some.com}\\
   \addr Address
}
```

3.2 Font Changing Commands

Use the $\mathbb{M}_{E}X2_{\mathcal{E}}$ font changing commands, such as \bfseries or \textbf{(text)}, rather than the obsolete $\mathbb{M}_{E}X2.09$ commands, such as \bf.

\url \url{\address}}

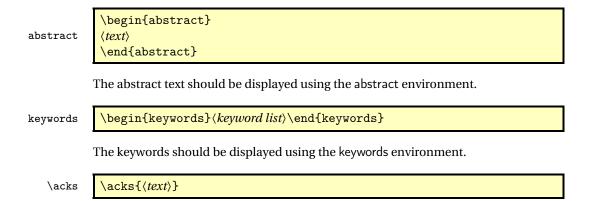
This will typeset (*address*) in a typewriter font. Special characters, such as ~, are correctly displayed. Example:

\url{http://theoval.cmp.uea.ac.uk/~nlct/}

\mailto \mailto{(email address)}

This will typeset the given email address in a typewriter font. Note that this is not the same as \Email, which should only be used in the argument of \author.

3.3 Structure



This displays the acknowledgements.

\section	$\section{\langle title \rangle}$
	Section titles are created using \section. The heading is automatically numbered and can be cross-referenced using \label and \ref. Unnumbered sections can be produced using:
\section*	$\section*{\langle title \rangle}$
\subsection	\subsection{\title}}
	Sub-section titles are created using \subsection. Unnumbered sub-sections can be produced using:
\subsection*	\subsection*{(<i>title</i>)}
\subsubsection	\subsubsection{\title>}
	Sub-sub-section titles are created using \subsubsection. Unnumbered sub-sub-sections can be produced using:
\subsubsection*	\subsubsection*{{ <i>title</i> }}
	Further sectioning levels can be obtained using \paragraph and \subparagraph, but these are unnumbered with running heads.
\appendix	\appendix
	Use \appendix to switch to the appendices. This changes \section to produce an appendix. Example:
	<pre>\appendix \section{Proof of Theorems}</pre>
	3.4 Citations and Bibliography
	The jmlr class automatically loads natbib and sets the bibliography style to plainnat. References should be stored in a .bib file.
\bibliography	\langle bib file \rangle File

This displays the bibliography.

\citep

\citep[{pre note}][{post note}]{{label}}

Use \citep for a parenthetical citation.

\citet \citet[(*note*)]{(*label*)}

Use \citet for a textual citation.

See the natbib documentation² for further details.

3.5 Figures and Tables

Floats, such as figures, tables and algorithms, are moving objects and are supposed to float to the nearest convenient location. Please don't force them to go in a particular place. In general it's best to use the htbp specifier and don't put the float in the middle of a paragraph (that is, make sure there's a paragraph break above and below the float). Floats are supposed to have a little extra space above and below them to make them stand out from the rest of the text. This extra space is put in automatically and shouldn't need modifying.

To ensure consistency, please *don't* try changing the format of the caption by doing something like:

```
\caption{\textit{A Sample Caption.}}
```

or

\caption{\em A Sample Caption.}

You can, of course, change the font for individual words or phrases. For example:

\caption{A Sample Caption With Some \emph{Emphasized Words}.}

The jmlr class provides the following command for displaying the contents of a figure or table:

 \floatconts

 $floatconts{\langle label \rangle}{\langle caption \ command \rangle}{\langle contents \rangle}$

This ensures that the caption is correctly positioned and that the contents are centered. For example:

```
\begin{table}[htbp]
\floatconts
 {tab:example}% label
 {\caption{An Example Table}}% caption command
 {%
    \begin{tabular}{ll}
    \bfseries Dataset & \bfseries Result\\
    Data1 & 0.123456
```

²http://ctan.org/pkg/natbib

\end{tabular}
}
\end{table}

The jmlr class automatically loads graphicx which defines:

\includegraphics \includegraphics [(options)] {(file name)}

where $\langle options \rangle$ is a comma-separated list of options.

For example, suppose you have an image called mypic.png in a subdirectory called images:

```
\begin{figure}[htbp]
\floatconts
  {fig:example}% label
  {\caption{An Example Figure}}% caption command
  {\includegraphics[width=0.5\textwidth]{images/mypic}}
\end{figure}
```

Note that you shouldn't specify the file extension when including the image. It's helpful if you can also provide a grayscale version of color images. This should be labeled as the color image but with -gray immediately before the extension. (The extension need not be the same as that of the color image.) For example, if you have an image called mypic.pdf, the grayscale can be called mypic-gray.pdf, mypic-gray.png or mypic-gray.jpg. See Section 3.11 for further details.

\includeteximage

\includeteximage[(options)] {(file name)}

If your image file is made up of MTEX code (e.g. tikz commands) the file can be included using \includeteximage. The optional argument is a key=value comma-separated list where the keys are a subset of those provided by \includegraphics. The main keys are: width, height, scale and angle.

3.5.1 Sub-Figures and Sub-Tables

The subfig package causes a problem for jmlrbook so the jmlr class will give an error if it is used. Therefore the jmlr class provides its own commands for including sub-figures and sub-tables.

\subfigure \subfigure [\langle title \] [\langle valign \] {\langle contents \}

This makes a sub-figure where $\langle contents \rangle$ denotes the contents of the sub-figure. This should also include the \label. The first optional argument $\langle title \rangle$ indicates a caption for the sub-figure. By default, the sub-figures are aligned at the base. This can be changed with the second optional argument $\langle valign \rangle$, which may be one of: t (top), c (centred) or b (base).

For example, suppose there are two images files, mypic1.png and mypic2.png, in the subdirectory images. Then they can be included as sub-figures as follows:

```
\begin{figure}[htbp]
\floatconts
  {fig:example2}% label for whole figure
  {\caption{An Example Figure.}}% caption for whole figure
  {%
     \subfigure{%
     \label{fig:pic1}% label for this sub-figure
     \includegraphics{images/mypic1}
     }\quad % space out the images a bit
     \subfigure{%
        \label{fig:pic2}% label for this sub-figure
        \includegraphics{images/mypic2}
     }
   }
   }
   end{figure}
```

\subtable

\subtable[(*title*)][(*valign*)]{(*contents*)}

This is an analogous command for sub-tables. The default value for (*valign*) is t.

3.6 Algorithms



Enumerated textual algorithms can be displayed using the algorithm environment. Within this environment, use \caption to set the caption (and \label to cross-reference it). Within the body of the environment you can use the enumerate environment.

enumerate*

\begin{enumerate*}
\item 〈text〉
....
\end{enumerate*}

If you want to have nested enumerate environments but you want to keep the same numbering throughout the algorithm, you can use the enumerate* environment, provided by the jmlr class. For example:

```
\begin{enumerate*}
   \item Set the label of vertex $s$ to 0
   \item Set $i=0$
```

```
\begin{enumerate*}
   \item \label{step:locate}Locate all unlabelled vertices
        adjacent to a vertex labelled $i$ and label them $i+1$
   \item If vertex $t$ has been labelled,
   \begin{enumerate*}
        \item[] the shortest path can be found by backtracking, and
        the length is given by the label of $t$.
        \end{enumerate*}
        otherwise
        \begin{enumerate*}
        \item[] increment $i$ and return to step~\ref{step:locate}
        \end{enumerate*}
        \end{enumerate*}
```

\begin{algorithm2e} algorithm2e contents/

\end{algorithm2e}

Pseudo code can be displayed using the algorithm2e environment, provided by the algorithm2e package, which is automatically loaded. For example:

```
\begin{algorithm2e}
\caption{Computing Net Activation}
\label{alg:net}
\dontprintsemicolon
\linesnumbered
\KwIn{$x_1, \ldots, x_n, w_1, \ldots, w_n$}
\KwOut{$y$, the net activation}
$y\leftarrow 0$\;
\For{$i\leftarrow 1$ \KwTo $n$}{
$y \leftarrow y + w_i*x_i$\;
}
\end{algorithm2e}
```

See the algorithm2e documentation³ for more details.

3.7 Description Lists

altdescription

```
\begin{altdescription}{\widest label\}
\item[\label\] \label\\
\end{altdescription}
```

³http://ctan.org/pkg/algorithm2e

In addition to the standard description environment, the jmlr class also provides the altdescription environment. This has an argument that should be the widest label used in the list. For example:

```
\begin{altdescription}{differentiate}
\item[add] A method that adds two variables.
\item[differentiate] A method that differentiates a function.
\end{altdescription}
```

3.8 Theorems, Lemmas etc

The jmlr class provides the following theorem-like environments: theorem, example, lemma, proposition, remark, corollary, definition, conjecture and axiom. Within the body of those environments, you can use the proof environment to display the proof if need be. The theorem-like environments all take an optional argument, which gives the environment a title. For example:

```
\begin{theorem}[An Example Theorem]
\label{thm:example}
This is the theorem.
\begin{proof}
This is the proof.
\end{proof}
\end{theorem}
```

3.9 Cross-Referencing

Always use \label when cross-referencing, rather than writing the number explicitly. The jmlr class provides some convenience commands to assist referencing. These commands, described below, can all take a comma-separated list of labels.

```
\sectionref \sectionref{\label list}}
Used to refer to a section or sections. For example, if you defined a section as follows:
    \section{Results}\label{sec:results}
    you can refer to it as follows:
    The results are detailed in \sectionref{sec:results}.
    This command may also be used for sub-sections and sub-sub-sections.
    \appendixref \label list}
Used to refer to an appendix or multiple appendices.
    \equationref \label list}
```

Used to refer to an equation or multiple equations.

\tableref	$tableref{(label list)}$
	Used to refer to a table or multiple tables. This can also be used for sub-tables where the main table number is also required.
\subtabref	$\ \ \ \ \ \ \ \ \ \ \ \ \ $
	Used to refer to sub-tables without the main table number, e.g. (a) or (b).
\figureref	\figureref{(label list)}
	Used to refer to a figure or multiple figures. This can also be used for sub-figures where the main figure number is also required, e.g. $2(a)$ or $4(b)$.
\subfigref	\subfigref{(<i>label list</i>)}
	Used to refer to sub-figures without the main figure number, e.g. (<i>a</i>) or (<i>b</i>).
\algorithmref	\label{list}
	Used to refer to an algorithm or multiple algorithms.
\theoremref	$\ \ list \}$
	Used to refer to a theorem or multiple theorems.
\lemmaref	$lemmaref{\langle label list \rangle}$
	Used to refer to a lemma or multiple lemmas.
\remarkref	$\operatorname{remarkref}(\operatorname{label list})$
	Used to refer to a remark or multiple remarks.
\corollaryref	$\operatorname{corollaryref}(\langle label list \rangle)$
	Used to refer to a corollary or multiple corollaries.
\definitionref	$\det \left(label list \right)$

Used to refer to a definition or multiple definitions.

\conjectureref	\conjectureref{(<i>label list</i>)}
	Used to refer to a conjecture or multiple conjectures.
\axiomref	$\operatorname{label list}$
	Used to refer to an axiom or multiple axioms.
\exampleref	$\operatorname{exampleref}(\operatorname{label list})$

Used to refer to an example or multiple examples.

3.10 Mathematics

The jmlr class loads the amsmath package so you can use any of the commands and environments defined in that package. A brief summary of some of the more common commands and environments is provided here. See the amsmath documentation⁴ for further details.

∖set

In addition to the commands provided by amsmath, the jmlr class also provides the \set command which can be used to typeset a set. For example:

```
The universal set is denoted \left| \left\{ U \right\} \right\}
```

Unnumbered single-line equations should be displayed using $\[$ and $\]$. For example:

 $E = m c^2$

 $set{\langle text \rangle}$

Numbered single-line equations should be displayed using the equation environment. For example:

```
\begin{equation}\label{eq:trigrule}
\cos^2\theta + \sin^2\theta \equiv 1
\end{equation}
```

Multi-lined numbered equations should be displayed using the align environment. For example:

\begin{align}
f(x) &= x^2 + x\label{eq:f}\\
f'(x) &= 2x + 1\label{eq:df}
\end{align}

⁴http://ctan.org/pkg/amsmath

Unnumbered multi-lined equations should be displayed using the align* environment. For example:

\begin{align*}
f(x) &= (x+1)(x-1)\\
&= x^2 - 1
\end{align*}

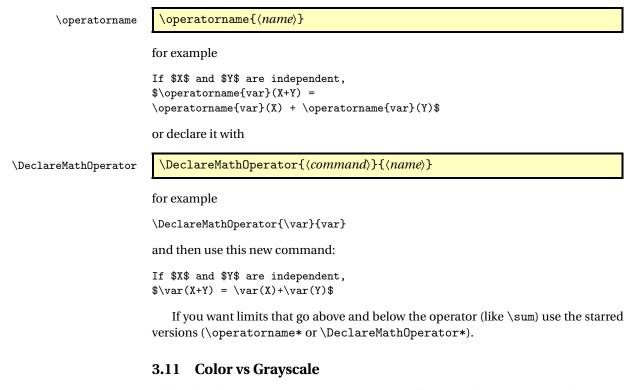
If you want to mix numbered with unnumbered lines use the align environment and suppress unwanted line numbers with \nonumber. For example:

```
\begin{align}
y &= x^2 + 3x - 2x + 1\nonumber\\
&= x^2 + x + 1\label{eq:y}
\end{align}
```

An equation that is too long to fit on a single line can be displayed using the split environment.

Text can be embedded in an equation using $text{\langle text \rangle}$ or you can use $intertext{\langle text \rangle}$ to interupt a multi-line environment such as align.

Predefined operator names are listed in table 1. For additional operators, either use



It's helpful if authors supply grayscale versions of their articles in the event that the article is to be incorporated into a black and white printed book. With external PDF, PNG

\arccos	arccos	\deg	deg	∖lg	lg	\projlim	projlim
\arcsin	arcsin	\det	det	\lim	lim	\sec	sec
\arctan	arctan	\dim	dim	\liminf	lim inf	\sin	sin
\arg	arg	∖exp	exp	\limsup	lim sup	\sinh	sinh
\cos	cos	\gcd	gcd	\label{ln}	ln	\sup	sup
\cosh	cosh	\hom	hom	\log	log	\tan	tan
\cot	cot	$\ inf$	inf	\max	max	\perp tanh	tanh
\coth	coth	∖injlim	injlim	\min	min		
\csc	csc	\ker	ker	\Pr	Pr		
		\varlimsu	ıp lim	\varinj	lim lim		
		\varlimir	f <u>lim</u>	\varproj			

Table 1: Predefined Operator Names (taken from amsmath documentation)

or JPG graphic files, you just need to supply a grayscale version of the file. For example, if the file is called myimage.png, then the gray version should be myimage-gray.png or myimage-gray.pdf or myimage-gray.jpg. You don't need to modify your code. The jmlr class checks for the existence of the grayscale version if it is print mode (provided you have used \includegraphics and haven't specified the file extension).

\ifprint

\ifprint{<*true part*}}{<*false part*}

You can use \ifprint to determine which mode you are in. For example:

```
in \figureref{fig:nodes}, the
\ifprint{dark gray}{purple}
ellipse represents an input and the
\ifprint{light gray}{yellow} ellipse
represents an output.
```

Another example:

{\ifprint{\bfseries}{\color{red}}important text!}

You can use the class option gray to see how the document will appear in gray scale mode.

The xcolor class is loaded with the $\times 11$ names option, so you can use any of the $\times 11$ predefined colors (listed in the xcolor documentation⁵).

3.12 Where To Go For Help

If you have a LATEX query, the first place to go to is the UK TUG FAQ⁶.

⁵http://ctan.org/pkg/xcolor

⁶http://www.tex.ac.uk/faq

If you are unfamiliar or just getting started with <code>WTEX</code>, there's a list of on-line introductions to <code>WTEX</code> at: http://www.tex.ac.uk/cgi-bin/texfaq2html?label=man-latex

There are also forums, mailing lists and newsgroups. For example, the <code>WTEX</code> Community (http://www.latex-community.org/), the texhax mailing list (http://tug.org/mailman/listinfo/texhax) and comp.text.tex (archives available at http://groups.google.com/group/comp.text.tex/).

Documentation for packages or classes can be found using the texdoc application. For example:

texdoc natbib

Alternatively, you can go to http://www.ctan.org/pkg/(*name*) where (*name*) is the name of the package. For example: http://www.ctan.org/pkg/natbib

4 Guidelines for Production Editors

The jmlrbook class can be used to combine articles that use the jmlr document class into a book. The following sample files are provided: paper1/paper1.tex, paper2/paper2.tex, paper3/paper3.tex, jmlr-sample.tex, jmlrwcp-sample.tex, jmlrbook-sample.tex and proceedings-sample.tex. All but the last two are articles using the jmlr class. The last two (jmlrbook-sample.tex and proceedings-sample.tex) uses the jmlrbook class file to combine the articles into a book. Note that no modifications are needed to the files using the jmlr class when they are imported into the book. They can either be compiled as stand-alone articles or with the entire book.

Before you compile the book, make sure that all the articles compile as stand-alone documents (and run BibT_EX where necessary). You can use the makejmlrbook Perl script to compile the book and create associated HTML files. See Section 4.6 for details.

4.1 jmlrbook Class Options

- **nowcp** The imported pre-published articles were published in the Journal of Machine Learning Research (default).
- **wcp** The imported pre-published articles were published in the JMLR Workshop and Conference Proceedings.

If the book has a mixture of JMLR and JMLR WCP articles, you can switch between them using

\jmlrwcp

\jmlrwcp

∖jmlrnowcp

Alternatively, you can set the name of the journal or conference proceedings using:

\jmlrproceedings

\jmlrproceedings{<short title>}{<long title>}

- **color** Color version (see Section 3.11). Use this option for the on-line version with hyperlinks enabled (default).
- **gray** Grayscale version (see Section 3.11). Use this option for the print version without hyperlinks.
- **tablecaption=top** in a table environment, \floatconts puts the caption at the top.
- **tablecaption=bottom** in a table environment, \floatconts puts the caption at the bottom.

letterpaper Set the paper size to letter (default).

7x10 Set the paper size to 7×10 inches.

- **10pt** Use 10pt as the normal text size.
- **11pt** Use 11pt as the normal text size (default).
- **12pt** Use 12pt as the normal text size.

4.2 The Preamble

Any packages that the imported articles load (which aren't automatically loaded by jmlr) must be loaded in the book's preamble. For example, if one or more of the articles load the siunitx package, this package must be loaded in the book.

Commands that are defined in the imported articles will be local to that article unless they have been globally defined using \gdef or \global. Since most authors use \newcommand and \newenvironment (or \renewcommand and \renewenvironment) this shouldn't cause a conflict if more that one article has defined the same command or environment. For example, in the sample files supplied, both paper1/paper1.tex and paper2/paper2.tex have defined the command \samplecommand using \newcommand. As long as this command isn't also defined in the book, there won't be a conflict.

\title \title[\{PDF title\] {\\ book title\}

In the book preamble, \title sets the book title and the optional argument is used for the PDF title, which will be displayed when the reader views the PDF file's properties in their PDF viewer. (Note that in the imported articles, \title sets the article's title and the optional argument sets the short title for the page header and table of contents.)

\author	$\operatorname{Lethor}[\langle PDF author(s) \rangle] \{\langle book author(s) \rangle\}$
	In the book preamble, \author sets the book's author (or editor) and the optional ar- gument is used for the PDF author, which will be displayed when the reader views the PDF file's properties in their PDF viewer. (Note that in the imported articles, \author sets the article's author and the optional argument sets the short author list for the page header.)
\volume	<pre>\volume{(number)}</pre>
	This command sets the book's volume number. Omit if the book has no volume number.
\subtitle	\subtitle{ <sub-title}}< td=""></sub-title}}<>
	This command sets the book's subtitle. Omit if the book has no sub-title.
\logo	\logo{\image command\}
	This sets the book's title image. Use \includegraphics and omit the file extension. If you provide a grayscale version as well as a color version, the grayscale version will be used for the print version of the book. (See Section 3.11 for further details.)
\team	\team{(<i>team title</i>)}
	This can be used to set the name of the editorial team. This command may be omitted if not required.
\productioneditor	\productioneditor{ <name>}</name>
	This command may be used to name the production editor. The command may be omitted if not required. See Section 4.4 for details on how to modify the layout of the title page.
	4.3 Main Book Commands
	All commands that are provided by the jmlr class are also available with the jmlrbook class, but some commands might behave differently depending on whether they are in the main part of the book or within the imported articles. In the main part of the book you can use the following commands:
\maketitle	\maketitle

This displays the book's title page. Note that $\mbox{maketitle}$ has a different effect when used in imported articles.

frontmatter	\frontmatter
	Use this command at the start of the front matter (e.g. before the foreword or preface). This will make chapters unnumbered even if you use \chapter instead of \chapter*. It also sets the page style and sets the page numbering to lower case Roman numerals.
authorsignoff	<pre>\begin{authorsignoff}</pre>
	This environment may be used by the author signing off at the end of a chapter such as the foreword. Within the environment use:
\Author	\Author{\details\}
	for the author's details. More than one \Author should be used if there is more than one author. Example:
	<pre>\begin{authorsignoff} \Author{Nicola Talbot\\ University of East Anglia} \Author{Anne Author\\ University of No Where} \end{authorsignoff}</pre>
preface	<pre>\begin{preface}[(filename)]</pre>
	This environment may be used to typeset the preface. This starts a new chapter using \chapter{\prefacename}
\prefacename	where \prefacename defaults to "Preface". This environment should typically go in the front matter and is provided to allow makejmlrbook create a standalone docu- ment for the preface. The optional argument is the filename (without any extension or path) that will be used by makejmlrbook. This defaults to preface but, to conform with JMLR guidelines, should be changed to the surname of the first author (editor) followed by the final two digits of the year. See the JMLR website for further details of the guidelines.
signoff	<pre>\begin{signoff}[\langle team name\rangle] {\langle date\rangle} \langle editor list\ \end{signoff}</pre>

This environment may be used by the editorial team when signing off a chapter such as the preface. If the optional argument is omitted, "The Editorial Team" is used. If you

are using the preface environment described above, the signoff environment must go inside the preface environment.

Within the signoff environment use:

\Editor	\Editor{\details\}
	for each editor. Example:
	<pre>\begin{signoff}{March 2010} % First editor: \Editor{Nicola Talbot\\ University of East Anglia\\ \mailto{N.TalbotQuea.ac.uk}} % Second editor: \Editor{Anne Editor\\ University of Nowhere\\ \mailto{ae@sample.com}} \end{signoff}</pre>
\tableofcontents	\tableofcontents
	This command displays the book's table of contents. Note that it has a different effect if used in an imported article.
\mainmatter	\mainmatter
	Use this command to switch to the book's main matter. This will switch the chapter numbering back on, reset the page numbering to Arabic and set up the main page style.
\part	<pre>\part[(short title)]{(title)}</pre>
	If used in the main part of the book, this command will start a new part and issue a clear double page. Note that this command has a different effect if used in an imported article.
\addtocpart	\addtocpart{\title\}
	This adds 〈 <i>title</i> 〉 to the table of contents, issues a clear double page, but doesn't display any text or affect the part numbering.
\chapter	\chapter[(short title)] {(title)}
	This command may be used in the main body of the book but will cause an error if

used within an imported article.

\section	\section[(short title)]{(title)}
\subsection	\subsection[(short title)]{(title)}
\subsubsection	<pre>\subsubsection[(short title)]{(title)}</pre>
\paragraph	<pre>\paragraph[(short title)]{(title)}</pre>
\subparagraph	\subparagraph[{short title}]{{title}}
	These commands may be used in the main body of the book or within imported arti- cles. In the main body of the book they need to be within a chapter and will be num- bered according to the chapter.
\appendix	\appendix
	If used in the main body of the book, this will switch to the book appendices. Subsequent \chapter commands will produce the appendices. If used within an imported article, it will switch to the article appendices and won't affect the main part of the book.
jmlrpapers	<pre>\begin{jmlrpapers} <imported papers=""> \end{jmlrpapers}</imported></pre>
	This environment must be used when importing articles. Within this environment, use the following commands to import articles:
\importpubpaper	<pre>\importpubpaper[(label)]{(directory)}{(file)}{(pages)}</pre>
	This imports an article that has already been published elsewhere. The $\langle pages \rangle$ argument should be the page range from the <i>previously published</i> version of this article. This may not necessarily be the same as the page range of the article in the book. The directory the imported file is contained in is is given by $\langle directory \rangle$. If the file is in the same directory as the book, use a dot. The file name is given by $\langle file \rangle$. The article is also given a label, specified by the optional argument. This is $\langle directory \rangle / \langle file \rangle$ by default. The label is used as a prefix to labels in the imported articles which ensures that cross-references are unique. You can also use this label to reference the article elsewhere in the book (see Section 4.3.2).

\importpaper

\importpaper[(label)]{(directory)}{(file)}

Imports an article that is being published in the book. The arguments are the same as above except that there is no page range (the page range is computed automatically).

\importarticle

\importanticle[(label)]{(directory)}{(file)}

This imports an article that hasn't been published elsewhere. There is no page range, but the other arguments are the same as those describe above for \importpubpaper.

Example: to import a previously published paper paper1/paper1.tex and an un-published paper paper2/paper2.tex:

```
\begin{jmlrpapers}
\importpubpaper{paper1}{paper1}{23--45}
\importarticle{paper2}{paper2}
\end{jmlrpapers}
```

4.3.1 Two Column Articles in a One Column Book

The jmlrbook class column style will override the column style of the imported articles. You can use the twocolumn class option to jmlrbook, but this will make the whole book with two columns. If you only want the imported articles to be in two columns, then put \twocolumn in the jmlrpapers environment to switch on two column formatting. The effect will be localised to the end of the environment.

4.3.2 Cross-Referencing

You can cross-reference other parts of the book using the standard \label/\ref mechanism, but if you want to reference something within an imported article, you must prefix the label with the label given when importing the article (that is, the optional argument to \importpubpaper, \importpaper or \importarticle). For example, if you want to reference a section labeled sec:results in the imported paper paper1/paper1.tex, you would need to do:

```
see Section~\ref{paper1/paper1sec:results}
```

or

see \sectionref{paper1/paper1sec:results}

In addition to the commands described in Section 3.9, the jmlrbook class also provides the following cross-referencing commands:

\chapterref \chapter

 $\operatorname{chapterref}(\langle label list \rangle)$

Reference a chapter or chapters. The argument is a comma-separated list of labels.

\articlepageref

\articlepageref{<*label*}

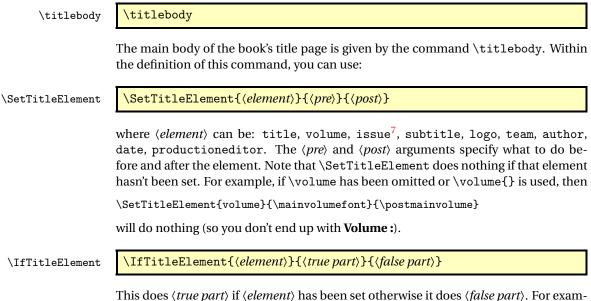
This displays the starting page number of the article whose label is given by $\langle label \rangle$. Note that this must a single label, not a list. For example:

An interesting article starts on page~\articlepageref{paper1/paper1}

\articlepagesref {\label}} This displays the page range of the article whose label is given by \label\. Again, this must be a single label, not a list. This page range is unrelated to the \lapha pages\range argument of \importpubarticle. \articletitleref \articletitleref{\label\} This displays the short title for the article whose label is given by \label\. Again, this must be a single label, not a list. \articleauthorref \articleauthorref{\label\} This displays the author list for the article whose label is given by \label\. Again, this

4.4 Altering the Layout of the Main Title Page

must be a single label, not a list.



This does $\langle true part \rangle$ if $\langle element \rangle$ has been set otherwise it does $\langle false part \rangle$. For example, \postmainvolume is defined as:

⁷The default title page layout doesn't use issue, but if required it can be set with $\set (number)$

```
\newcommand{\postmainvolume}{%
  \IfTitleElement{subtitle}{}{:}\par\relax
}
```

This means that it will only print a colon after the volume number if the subtitle has been set.

The default definition of \titlebody is:

```
\mbox{lebody}{%}
```

```
\SetTitleElement{title}{\maintitlefont}{\postmaintitle}%
\SetTitleElement{volume}{\mainvolumefont}{\postmainvolume}%
\SetTitleElement{subtitle}{\mainsubtitlefont}{\postmainsubtitle}%
\SetTitleElement{logo}{\mainlogofont}{\postmainlogo}%
\SetTitleElement{team}{\mainteamfont}{\postmainteam}%
\SetTitleElement{author}{\mainauthorfont}{\postmainauthor}%
\SetTitleElement{productioneditor}{\mainproductioneditorfont}%
}
```

4.5 Potential Pitfalls

The combine class and hyperref package are individually both easily broken by packages that change certain internals and they don't ordinarily work together. The jmlrbook class applies patches to the internal referencing mechanism to make them work together, but it's a fairly fragile alliance. Some packages are known to break it, for example subfig, pdfpages and geometry. This is why the jmlr class checks for known problem packages and generates an error message to dissuade authors from using them. It's likely that there are other packages that may cause a problem and, as they are found, they will be added to the check list. Also, it's possible for an author to disable the package checking mechanism if they are determined to use a particular package.

Another problem that can arise is when different articles use packages that conflict. For example, one article uses package foo and another uses package bar. Each article compiles okay as a stand-alone article, but when combined foo and bar conflict. Another problem may occur when articles load the same package but with conflicting package options. To reduce the chance of this occurring, the jmlr class loads some commonly used packages. For example, it loads the algorithm2e package with the algo2e and ruled options and provides the algorithm environment in addition to algorithm2e's algorithm2e environment. Different versions of the same package can also be a problem. To help counteract the problem caused by different papers using different versions of the algorithm2e package, jmlrbook defines most of the old style commands if they don't exist.

Articles that use different input encodings can also cause a problem. For example, if one article uses utf8 and another uses latin1. If the authors have directly entered a diacritic or ligature, such as é or æ, instead of using a LatreX command, such as \'e

or \ae, then this will cause an error on compiling the book.⁸ The choice then is to either change all non-keyboard characters with the appropriate \mathbb{M}_{EX} commands or to use the \inputencoding command, supplied by the inputenc package, to switch the encoding at the start of each article.

Authors who use \nonumber within an equation environment can mess up the hyperlinks. Remove \nonumber and change the equation environment to $[\ldots]$ (or just make it a numbered equation).

If the article changes the graphics path using \graphicspath, jmlrbook won't find the graphics if the imported articles aren't in the same directory as the book.

4.6 Creating the Book Using makejmlrbook

The makejmlrbook Perl script is designed to make it easier to produce the print and online versions of the book, as well as producing an HTML index of all the imported articles with links to the abstracts and PDFs of individual articles. Note that for it to work properly, the articles must be imported using \importarticle, \importpaper or \importpubpaper, and the imported articles must use the jmlr class. Note that I have only tested makejmlrbook on Linux.

On UNIX style systems, the script can be invoked from a terminal using:

```
makejmlrbook [(options)] (filename)
```

If that doesn't work, or you aren't using a UNIX style operating system, the script can be invoked from a terminal or command prompt using:

perl makejmlrbook [(options)] <filename</pre>

The mandatory argument $\langle filename \rangle$ is the name of the master T_EX file containing the book. It must use the jmlrbook class. You may omit the .tex extension. For example, if the file is called proceedings.tex, you can call make jmlrbook as follows:

```
perl makejmlrbook proceedings
```

This will create the files proceedings-print.pdf (the print version) and proceedings-online.pdf (the online version). It will also create a directory (folder) called html in which the HTML files and individual article PDFs will be placed.

The options to makejmlrbook are as follows:

- --online Generate the color on-line version (default).
- --noonline Don't generate the color on-line version.
- --print Generate the grayscale print version (default).
- --noprint Don't generate the grayscale print version.
- --html Generate the HTML files and the individual article PDFs (default).

⁸and may also cause a problem for the editor's text editor.

- --nohtml Don't generate the HTML files and the individual article PDFs.
- --logourl $\langle url \rangle$ Make the logo on the HTML index page link to $\langle url \rangle$.
- --extractpreface Extract the preface as a standalone document with links in the HTML index. (Only has an effect if combined with --html option.) This will only work if the preface has been put inside the preface environment with the signoff environment that each editor with \Editor.
- --noextractpreface Don't try extracting the preface. (Default.)
- --batchtex Run TEX in batch mode.
- --nobatchtex Don't run T_EX in batch mode (default).
- --quieter Reduce chatter to STDOUT (doesn't eliminate all messages). This also runs T_FX in batch mode.
- --noquieter Don't reduce messages to STDOUT (default).
- --version Display the version number and exit.
- --help List all available options.

There are also some more advanced options, but these haven't been fully tested:

- --latexapp (*name*) Application used to call LATEX. Defaults to "pdflatex".
- --latexopt (*string*) Options to pass to LATEX.
- --format (*string*) Output format (defaults to "pdf"). This may need to be changed if you change the LATEX application.
- --bibtexapp (name) Application use to process the bibliography. Defaults to "bibtex".
- --bibtexopt (*string*) Options to pass to BibT_EX.

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