# A LATEX package for preparing manuscripts for submissions to the Open Access journal "Enterprise Modelling and Information Systems Architectures – International Journal of Conceptual Modeling" (EMISAJ)

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## 1 Introduction

Enterprise Modelling and Information Systems Architectures – International Journal of Conceptual Modeling (EMISAJ, formerly abbreviated as EMISA) is a publisher-independent, peer-reviewed open access journal (https://emisa-journal.org). EMISAJ is published by the German Informatics Society (GI) and is a publication of its Special Interest Group (SIG) on Modelling Business Information Systems (SIG MoBIS) and its SIG on Design Methods for Information Systems (SIG EMISA). SIG MoBIS has sponsored the development of the EMISAJ LATEX package currently maintained by Stefan Strecker (stefan.strecker@fernuni-hagen.de) and Martin Sievers (martin.sievers@schoenerpub lizieren.de). It is based on earlier funded work by Martin Leidig.

The EMISAJ LATEX package is provided for preparing manuscripts for submission to EMISAJ, and for preparing accepted submissions for publication as well as for typesetting the final document by the editorial office. For EMISAJ, manuscripts are submitted online and accepted articles are published online at <a href="https://emisa-journal.org">https://emisa-journal.org</a> in the Portable Document Format (PDF) format. The EMISAJ editorial office is run (alongside many other tasks and projects) by the two Editors-in-Chief assisted by doctoral students. Editorial work at EMISAJ is best described as a volunteer effort for the scientific community. You can assist us by preparing your manuscript following the instructions and style guidelines described in this document: Your work will be published quicker with less (typographical) glitches and will have a professional appearance.

### 2 Installation

The EMISAJ LATEX package consists of the document class emisa.cls, the biblatex bibliography style emisa.bbx and the biblatex citation style emisa.cbx.

The package also includes a quick-start template for authors (emisa-author-template.tex) and the present author instructions and style guidelines (emisa.pdf).

Automatic installation

The preferred installation method of the canonical *release* version is through your TeX distribution's package installer (e. g. TeX Live's tlmgr or the MiKTeX Package Manager). For the latter you may need to first update (or synchronise) the package database. This type of installation is recommended in order to always get the latest *release* version automatically. The canonical release version of the package is also available from CTAN at http://www.ctan.org/pkg/emisa while the *current development* (i. e. most recent) version of the package with bug fixes and new features (relative to the release version) is available from the GitHub repository at https://github.com/gi-ev/emisa-latex-package.

Manual installation

If you prefer a manual installation (or want to install the latest development version), download the corresponding Zip archive from Github (the latest development version is always available as Zip archive at https://github.com/gi-ev/emisa-latex-package/archive/master.zip), uncompress it in the same directory (folder) in which the source files for the manuscript will be maintained, and then run pdflatex emisa.dtx twice, and start from emisa-author-template.tex.

# 3 Instructions and guidelines

This document provides instructions and style guidelines for authors. Follow the instructions and guidelines in the present document to set up your files, to type in your text, to format figures, tables, source code listings and algorithms, and to obtain a consistent visual appearance in accordance with the journal's style specifications. Before submitting your manuscript online to the journal's online submission system at https://emisa-journal.org, use these instructions and guidelines as a checklist. Note that these instructions are *not* intended as a general introduction to LATEX2e and corresponding tools (see, for example, http://mirror.ctan.org/info/lshort/english/ for "The Not So Short Introduction to LATEX2e—Or LATEX2e in 157 minutes").

# 4 Preliminary remarks

The EMISAJ document class is derived from the standard LATEX article class, and produces a customised two-column layout with bibliographic information about the manuscript in a multi-line page headline (including the name of the journal, volume and issue number, date of publication, short title as well as author names) on A4-sized paper. The EMISAJ class builds on a number of standard LATEX packages. It is highly recommended to install the *full* set of LATEX packages that come with your LATEX distribution to make the required packages available to the EMISAJ package. Alternatively, missing packages may be installed via your TeX distribution's package manager or on-the-fly (if supported by your distribution).

UTF-8

File naming convention

The production process at the EMISAJ editorial office is based entirely on LaTeX, and runs pdfLaTeX and biber to produce the final proof and publication-ready PDF of an article. The biblatex package is used to typeset citations and references in conjunction with the biber tool. Make sure to use biber rather than bibtex to process your bibliography data base file(s). Most TeX editors have an option to easily switch to biber. The production tool chain at the editorial office requires that all text files of an article

are provided in *UTF-8 file encoding*, and that all submitted files are provided with *lower case filenames* only. Do not use upper case characters in filenames at all and avoid non-ASCII characters in filenames.

Author template

The file emisa-author-template.tex provides a good starting point for manuscript preparation (if the EMISAJ package is available through your TEX distribution, the file is stored at /doc/latex/emisa/inside your TEX installation folder/directory. Just copy it to your working directory). It is also recommended to review the example of an article typeset with emisa.cls provided in Sec. 18.

# 5 Class Options

american, USenglish

American English is the language of choice for publishing in EMISAJ. The class option american is loaded by default to obtain the correct hyphenation for American English (as provided by the babel package). The option *may be* explicitly used with the EMISAJ class to exemplify the use of American English: \documentclass[american]{emisa}. Note that the csquotes package is loaded with settings to produce proper quotation marks for American English (see below).

Note that versions of this class prior to 2.2.0 used British English as standard language!

british, UKenglish

If you want to use British English instead, you can use the option british or UKenglish. The hyphenation patterns and quotation marks will be set accordingly.

referee, review

By default, a final version of the manuscript is typeset for online publication including the names and affiliations of authors. For reviewing purposes, the names and affiliations of the authors must be omitted using the document option referee or review to allow for the anonymous (i. e. double blind) peer-review process of EMISAJ. Example: \documentclass[referee] {emisa}. Make sure to set the document option referee or review before typesetting the final PDF intended for submission to the journal.

## **6** Author information

\author \address Each author is added using the macro \author{\author name\} followed by the corresponding address \address{\author's address (line 1)\\...\}. If you have multiple authors with the same address, please use \address{\author's address\} only for the first one and \address[\altheref{letter of address}]} for all others. See emisa-author-template.tex for details.

 $\arrowvert$ author\*

There always has to be declared exactly one author as the corresponding author. This is indicated by using the starred version of the \author command: \author\*{ $\langle author$ 's name}}{ $\langle email\ address\rangle$ }.

# 7 Title, subtitle, abstract, and keywords

\title \subtitle The mandatory title and optional subtitle of a manuscript are typeset using  $\title{\langle title\rangle}$  and  $\title{\langle subtitle\rangle}$ . Note that the subtitle is indented. The abstract of the manuscript is typeset using  $\title{\langle subtitle\rangle}$ . Each manuscript should provide an abstract of about 200–400 words. Keywords describing the manuscript are typeset using  $\title{\langle keywords\rangle}$  and are concatenated

\abstract \keywords

using the \and command. At least three keywords should be provided.

## 8 Additional information on the first (title) page

\acknowledgements

Acknowledgements, for example, of collaborators, funding agencies etc. may be added using  $\acknowledgements{\langle acknowledgements \rangle}$ . The acknowledgements are typeset in a footnote on the first page below the corresponding author's email address.

\authornote

Additional information for reviewers and readers may be added in a footnote on the titlepage using  $\authornote{\langle author\ note \rangle}$ . This is typically used for stating earlier publications (e.g. in conference proceedings) on which the present manuscript is based.

# 9 Style guidelines for regular text

- ▶ Manuscripts should *not* make use of outdated LaTeX commands such as \em, but rather use the LaTeX2e commands (e. g. \emph, \texttt).
- Do *not* make use of bold face (\textbf). Use \emph instead to typeset an important word in italics!
- ▶ Always use the tilde ~ to connect before  $\{\langle label \rangle\}$ , e. g., Sec.~\ref{label} rather than the problematic: Sec. \ref{label}.
- Always use the en-dash (--) for ranges without spaces e. g., 17--34. The hyphen (-) should only be used for compound words or hyphenation.
- Do *not* write abbreviations such as e.g. but use the macros provided by the EMISAJ class (see below). Add punctuation when necessary, for example, write, to achieve the correct punctuation for "id est" (i. e.) rather than, i.e., which introduces two problems: A missing spacing after the first full stop and a wrong spacing after the second full stop.
- ▶ Follow the journal's style specification with respect to predefined text styles:
  - Use smallcaps for names of open-source projects, products and companies etc., e.g., \textsc{eclipse} to produce ECLIPSE. Pay attention to lower case spelling.

\meta

 Use non-proportional font for language concepts, meta types, meta classes etc., i.e., \texttt{AbstractGoalType} to produce AbstractGoalType, or use the predefined macro \meta{\delta type}}, e.g., \meta{AbstractGoalType}.

\type

• Use the sans-serif font face for type-level concepts etc., e.g., \textsf{Goal} to produce Goal when referring to a Goal type, or use the predefined macro \type{\langle type \rangle}, e.g., \type{Goal}.

### 10 Abbreviations and initialisms

 $\eg,\ie,\cf,\etal$ 

To achieve consistent typesetting of common abbreviations, macros are predefined by the EMISAJ class. These macros should *consistently* being used instead of writing the plain version. For example use \eg rather than e.g.,. The macros take care of spacing within and after the abbreviations.

- ▶ \eg for e.g.
- ▶ \ie for i.e.
- ▶ \cf for cf.
- ▶ \etal for et al.

\emisaabbrv

If you miss any frequently used abbreviation for your article, you can easily add it using  $\ensuremath{\mbox{\mbox{$\setminus$}}} {\text{$\setminus$}} in the preamble of your article.}$ 

\OMG,\BPM,\BPMN,\UML

In addition to common abbreviations, further initialisms are provided by the class for convenience and for a consistent visual appearance. Note that the class uses SMALLCAPS for typesetting initialisms. The list of predefined initialisms comprises:

- ▶ \OMG for OMG (Object Management Group).
- ▶ \BPM for BPM (Business Process Management).
- ▶ \BPMN for BPMN (Business Process Model and Notation).
- ▶ \UML for UML (Unified Modelling Language).

**\emisainitialism** 

You can add your own initialisms by stating  $\ensuremath{\mbox{\mbox{$\backslash$}}} {\ensuremath{\mbox{$\langle$}}} in the preamble.$ 

# 11 Quotation marks

\enauote

It is *highly recommended* to use the  $\end{equote} {\langle quotation \rangle}$  command to produce correct quotation marks. Note that the command can be nested and will produce correct primary and secondary quotation marks in American English (or British English – depending on the chosen class option), for example  $\end{equote} A$  quote  $\end{equote}$ . For other quotation macros and environment please consult the esquotes documentation [8].

Alternatively (but not recommended), the correct Unicode characters for the quotation marks in American (British) English can be used. See Wikipedia's entry for "quotation mark" for further information.

#### 12 Citations and references

\parencite \textcite The EMISAJ journal uses its own author-year citation style predefined for the biblatex package (emisa.cbx), and its own style for formatting entries in the list of references (emisa.bbx). Consult the biblatex package documentation [4] for an introduction to the citation commands. It is important to use the citation commands properly to follow the journal's style specifications.

**Important note.** *Make sure to format the bibliographic entries consistently!* Do not mix abbreviated first names with unabbreviated first names, as for example

```
@ARTICLE{key1, author = {{van der Weiden}, J. W. P.} ...
@ARTICLE{key2, author = {{van der Weiden}, Jan W. P.} ...
```

if both entries refer to the same author. This will lead to unexpected results with respect to the label generation of the citation. Make sure to always abbreviate author first names and to always use use curly brackets around multi-word last names, e.g. {van der Weiden}, J. W. P. in the bibentries.

# 13 Figures

All line-drawings must be provided as vector graphics (*not* bitmap graphics) in PDF format and all other (non-schematic) figures (e. g. screenshots) must be provided in PDF, JPEG or PNG format in a proper (high) resolution for the intended size of the rendered image to avoid pixelation due to low resolution; bitmap graphics shown in full page width in the submission should at least be of a resolution of two (2) megapixels or at least 1920 pixels wide.

#### 14 Tables

Tables can be added using the standard notation, i.e. using tabular inside the floating environment table (see Listing 1). However, the standard column parameters p, 1, c and r are often not sufficient to provide a table with an exact width, e. g. the text width.

Listing 1: An example for a standard table using tabular

```
\begin{table}
\small % or \footnotesize if needed at all
\centering % if needed
\caption{Add the caption here}
%\label{tab:unique-label} % alternatively after \end{tabular}
\begin{tabular}{p{3cm}lcr}
\toprule
A column 3cm wide and with possible line breaks &
\midrule
A column set flush-left with no line breaks &
A column set centred with no line breaks &
A column set flush right with no line breaks \&
A column set flush right with no line breaks \\
bottomrule
\end{tabular}
\label{tab:unique-label}
\end{table}
```

tabularx

Therefore the EMISAJ class loads the package tabularx by default. It defines an additional column parameter X, which has to be used for at least one column. In addition the standard tabular environment is substituted by tabularx which has two mandatory arguments, namely the total width of the table and the definition for the columns.

Listing 2 shows two typical examples for the application of tabularx. If you just mark one column with the parameter X, all other columns (i. e. columns with parameters p, p, p, p or p) are set the usual way. The remaining width (width given as first argument to tabularx minus used width of all "non-X-columns") is then assigned to the X column. To get a table two columns wide, please use t-extwidth as the table's width.

Listing 2: An example for a table using the package tabularx for exactly one X column

```
...
\begin{tabularx}{\textwidth}{Xll}
This a column with possibly long text passages,
so that line breaking is necessary and automatically
applied by the X column & This column is set ragged right and gets as
   wide as its contents &
Another column \\
...
\end{tabularx}
...
```

A second frequently used scenario is the need for columns with equal width, but without having to calculate the value manually. For a much more comfortable solution one can assign the X parameter to all such columns.

Listing 3: An example for a table using the package tabularx and more than one X column

```
...
\begin{tabularx}{\textwidth}{p{3cm}XXX}
This a column with possibly long text passages,
so that line breaking is necessary and automatically
applied to get a box 3cm wide &
This column and the remaining two all have the same width, namely
(\textwidth-3cm)/3. &
...
\end{tabularx}
...
```

Additional information can be obtained from the package's documentation [19].

For nicer tables you should get rid of any vertical lines between the columns. Instead you can use the macros provided by booktabs (preloaded by EMISAJ) for horizontal lines of different width. Just replace the first standard \hline by \toprule, the last one by \bottomrule and all other by \midrule. There is even an alternative for \cline called \cmidrule. The example from Listing 3 then looks like:

Listing 4: An example for a table using the packages tabularx and booktabs

```
...
\begin{tabularx}{\textwidth}{p{3cm}XXX}
\toprule
Table header 1 & table header 2 & table header 3\\
\midrule
This a column with possibly long text passages,
so that line breaking is necessary and automatically
applied to get a box 3cm wide &
This column and the remaining two all have the same width, namely
(\textwidth-3cm)/3. &
...
\bottomrule
\end{tabularx}
...
```

Have a look at the package's documentation [5] for more details.

# 15 Source code listings

sourcecode java For marking up source code listings, the EMISAJ class uses the listings package (see the package documentation [15] for further information), and provides two customised LaTeX environments: sourcecode and java. The java environment should be used to format source code listings in the Java programming language, and the sourcecode environment should be used to format source code in any other programming language. You can add the name of the programming language and other parameters known to listings like caption or label as an optional argument.

Note that the source code in either case is typeset verbatim, i. e., the author must arrange the input LATEX source code according to the intended output. Also note that the two environments have been predefined to always produce a two-column listing positioned at the top of the page. Listing 5 illustrates the use of both environments.

Listing 5: Example for the java and sourcecode environments

```
\begin{java}[caption={A hello world example},label={hw-java}]
public class HelloWorld
{
    public static void main (String[] args)
    {
        // Output Hello World!
        System.out.println("Hello World!");
    }
}
\end{java}

\begin{sourcecode}[language=R]
hello <- function( name ) {</pre>
```

```
sprintf( "Hello, %s", name );
}
\end{sourcecode}
```

# 16 Pseudo-code and algorithms

algorithm algorithmic

Apart from source code you might want to add pseudo code examples or algorithms. In contrast to the source code examples above EMISAJ does not define its own environments for that. Instead we recommend using the bundle algorithms consisting of the two packages algorithm and algorithmic. Typical parts like loops, if-clauses or statements all have their own macro. See Listing 6 for an example.

Listing 6: Example for a pseudocode presented within the algorithmic environment

```
\begin{algorithmic}[1]
\REQUIRE $n \geq 0$
\ENSURE $y = x^n$
\STATE $y \leftarrow 1$
\STATE $X \leftarrow x$
\STATE $N \leftarrow n$
\WHILE{$N \neq 0$}
\IF{$N$ is even}
\STATE $X \leftarrow X \times X$
\STATE $N \leftarrow N / 2$
\ELSE[$N$ is odd]
\STATE $y \leftarrow y\times X$
\STATE $N \leftarrow N - 1$
\ ENDIF
\ENDWHILE
\end{algorithmic}
```

```
Require: n \ge 0
Ensure: y = x^n
 1: y \leftarrow 1
 2: X \leftarrow x
 3: N \leftarrow n
 4: while N \neq 0 do
        if N is even then
 5:
            X \leftarrow X \times X
            N \leftarrow N/2
 7:
        else \{N \text{ is odd}\}
 8:
            y \leftarrow y \times X
 9:
            N \leftarrow N-1
10:
        end if
11:
12: end while
```

results in

If you want your algorithm to be a floating object, you can surround it with algorithm:

```
\begin{algorithm}
\caption{Calculate $y = x^n$}
\label{alg1}
\begin{algorithmic}
...
\end{algorithmic}
\end{algorithm}
```

For more details, please have a look at the documentation [2].

# 17 Commands for use by the editorial office staff only

\editor Enter the corresponding editor (or editorial board member) for the article, in the format "first letter of the first name fullstop tilde last name". Example: \editor{A.~Smith}, \editor{A.~Smith and B.~Meyer} Enter the date of initial reception of the manuscript by the editorial office in the following format. \received Example: \received{31~March 2014} Enter the date of the acceptance decision of the manuscript and the number of review rounds in the \accepted following format. Example: \accepted[3]{10~January 2016} Enter the number of the volume in which the article is published. Example: \volume{11} \volume Enter the issue number and issue year of the article. Format example: \issue{1}{2016} \issue Enter the title of the Special Issue to which the article belongs if any. Note that the prefix "Special Issue \specialissuetitle on" is added automatically. Example: \specialissuetitle{Multilevel Modelling} Note that volume, issue number and issue date and, optionally, the title of the special issue appear in the

Note that volume, issue number and issue date and, optionally, the title of the special issue appear in the multiline page headline of the article.

\CCBYNCSAFour If an article is licensed under a Creative Commons BY-NC-SA 4.0 or 3.0 licence, the reference to the licence can be automatically displayed at the end of the article by adding \CCBYNCSAFour and \CCBYNCSAThree, respectively.

\license,\license Alternatively, enter a license text using the \license (or \license) commands.

Example: \license{This work is licensed under LPPL 1.3c.}

# 18 Example file for both, authors and editorial office

```
% Use the option [draft] to mark overfull lines.
\documentclass[american]{emisa}
% The following package imports are recommended, but not obligatory;
% take a look into their respective manuals if you want to how they can
   be used:
\usepackage{amsmath,amssymb,mathtools}
```

```
\usepackage{algorithmic,algorithm}
% Additional package imports go here:
% The document begins here:
\begin{document}
% Optionally, set the style for typesetting source code listings.
% \lstset{language=Java} % see listings package
% Take note of the following article environment!
\begin{article}{%
% Enter your bibliography database file here. Make sure to use
% UTF-8 character encoding in the bibliography data bases,
% and add the .bib extension for the biblatex package!
\bibliography { emisa.bib }
% For editorial office only: Start
% Add editorial meta data to appear in the multiline page headline.
\editor{Enter corresponding editor here}
\received{Enter date of manuscript reception here}
\accepted[1]{Enter number of review rounds and date of acceptance here.}
\volume{11} % volume number
\issue{1}{31~Jan~2016} % issue number and issue date
\specialissuetitle{Title of special issue if publication belongs to a
   special issue}
% Add license information at end of article, either
\CCBYNCSAFour % or \CCBYNCSAThree or \license
\license{Enter your license text here}
% For editorial office only: End
% Enter bibliographic meta data about publication
\title[Insert shorttitle for page headline]{Enter full title here}
\subtitle{Enter subtitle here, or leave empty}
\author*{FirstName LastName of corresponding author}{email@address.org}
\address{Enter affiliation of first (corresponding) author here.
   that only the starred version of author* accepts a second argument
   requiring an email address for the corresponding author.}
\author{FirstName LastName}
\address{Enter affiliation of second and further authors here. Add
   further authors following this scheme.}
% Enter abstract, keywords, acknowledgements, author note
\abstract{Enter abstract here}
\keywords{Enter at a minimum three keywords here. Keyword1 \and Keyword2
    \and Keyword3}
\acknowledgements {Enter acknowledgements here.}
\authornote{If your submission is based on a prior publication and
   revises / extends this work, enter a corresponding note here (This
   work is based on ...) but DO NOT cite the prior work during the
   reviewing process. INSTEAD provide full citations of all prior
   publications to the editors during the submission process (use the
```

```
text field in the online submission system).}
% Take note of the following closing bracket!
}
\section{Introduction}\label{sec:introduction}
Enter your text here.
\subsection{Subsection title}\label{sec:somelabel}
% Example of a single-column figure (spanning only a single column).
% You can add an optional argument to influence the float placement,
% which is htbp by default.
\begin{figure}
\centering
\includegraphics[width=\columnwidth]{<filename>}
\caption{Enter your single-column figure caption here.}
\label{fig:unique-label}
\end{figure}
% Example of a double-column figure (spanning both columns)
\begin{figure*}[htb]
\centering
\includegraphics[width=\textwidth]{<filename>}
\caption{Enter your double-column figure caption here.}
\label{fig:unique-label}
\end{figure*}
% Example of a double-column table. Tables should NOT be typeset in a
   single column!
% Note the use of \toprule, \midrule, and \bottomrule!
% DO NOT use vertical rules in tables!
\begin{table*}[tb]
\centering
\caption{Enter your table caption above the table here.}
\begin{tabular}{111111}
\toprule
column head1 & column head2 & column head3 & column head4 & column head5
    & column head6\\
\midrule
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
cell1 & cell2 & cell3 & cell4 & cell5 & cell6\\
\bottomrule
\end{tabular}
\label{tab:unique-label}
\end{table*}
% Example of a double-column source code listing.
```

```
\begin{java}[caption={Enter your double-column listing caption here.},%
                   label={lst:helloworld}]
* The HelloWorldApp class implements an application that
* simply prints "Hello World!" to standard output.
*/
class HelloWorldApp {
   public static void main(String[] args) {
        System.out.println("Hello World!"); // Display the string.
\end{java}
% Example of a pseudo-code with algorithmic.
\begin{algorithmic}
\WHILE{\r > kRadius/2\}}
\STATE $r \leftarrow r-1$
\STATE $a \leftarrow \sqrt{kernel[0][r]}/(kRadius-r)$;
\IF{$a < sqrtSlope$}
\STATE $sqrtSlope \leftarrow a$
\ ELSE
\STATE break
\ ENDIF
\ENDWHILE
\end{algorithmic}
% Formatting the bibliographic data base:
% Please make sure to properly enter all data for each entry
% in the bibliographic database (.bib).
% Pay special attention to formatting names and page numbers,
% see the following example:
%@ARTICLE{key1,
% author = {{van der Aalst}, W. M. P.
% and {van Hee}, K. M.
% and {van Werf}, J. M.
% and Verdonk, M.},
% title = {{Auditing 2.0: Using
% Process Mining to Support
% Tomorrow's Auditor}},
% journal = {Computer},
  year = \{2010\},\
% volume = \{43\},
% pages = \{90--93\},
% number = \{3\}
%}
\printbibliography
\end{article}
\end{document}
```

## References

- [1] Package afterpage: Execute command after the next page break. 19.2.2
- [2] Package algorithms: A suite of tools for typesetting algorithms in pseudo-code. 16
- [3] Package babel: Multilingual support for Plain TFX or LATFX. 19.2
- [4] Package biblatex: Bibliographies in LaTeX using BibTeX for sorting only. 12, 19.2.1
- [5] Package booktabs: Publication quality tables in LaTeX. 14
- [6] Package calc: Simple arithmetic in LATEX commands. 19.2.2
- [7] Package caption: Customising captions in floating environments. 19.2
- [8] Package csquotes: Context sensitive quotation facilities. 11, 19.2.1
- [9] Package environ: A new interface for environments in LaTeX. 19.2.2
- [10] Package eso-pic: Add picture commands (or backgrounds) to every page. 19.2.2, 19.9.3
- [11] Package float: Improved interface for floating objects. 19.2
- [12] Package geometry: Flexible and complete interface to document dimensions. 19.2.2
- [13] Package graphicx: Enhanced support for graphics. 19.2.1
- [14] Package hyperref: Extensive support for hypertext in LATeX. 19.3
- [15] Typeset source code listings using LaTeX. 15
- [16] Package microtype: An interface to the micro-typographic features of pdfTeX. 19.2
- [17] Package paralist: Enumerate and itemize within paragraphs. 19.2.2
- [18] The  $\LaTeX$  2 $\varepsilon$  Sources. 19.10
- [19] Package tabularx: Tabulars with adjustable-width columns. 14
- [20] Package textcomp: LATEX support for the Text Companion fonts. 19.2
- [21] Package twoopt: Definitions with two optional arguments. 19.2.2
- [22] Package xcolor: Driver-independent color extensions for LATEX and pdfLATEX. 19.2.1
- [23] Package xspace: Define commands that appear not to eat spaces. 19.2.2

## 19 Implementation

Here, the code of the LATEX class emisa begins.

```
1 (*class)
```

## 19.1 Options

\@clearglobaloption We need a macro to remove options from the global to avoid side-effects

```
2 \def\@clearglobaloption#1{%
                        \def\@tempa{#1}\%
                        \def\@tempb{\@gobble}%
                        \@for\next:=\@classoptionslist\do
                          {\ifx\next\@tempa
                              \message{Cleared option \next\space from global list}%
                    7
                    8
                              \edef\@tempb{\@tempb,\next}%
                    9
                    10
                        \let\@classoptionslist\@tempb
                    11
                        \expandafter\ifx\@tempb\@gobble
                    12
                          \let\@classoptionslist\@empty
                    13
                        \fi}
                    14
  british option
UKenglish option
                    15 \DeclareOption{british}{%
                         \PassOptionsToPackage{british}{babel}
                    16
                         \PassOptionsToPackage{english=british}{csquotes}
                    17
                          \@clearglobaloption{british}}
                    18
                    19 \DeclareOption{UKenglish}{%
                         \PassOptionsToPackage{british}{babel}
                    20
                         \PassOptionsToPackage{english=british}{csquotes}
                    21
                         \@clearglobaloption{british}}
 american option
USenglish option
                    23 \DeclareOption{american}{%
                          \PassOptionsToPackage{american}{babel}
                         \PassOptionsToPackage{english=american}{csquotes}
                    25
                         \@clearglobaloption{american}}
                    26
                    27 \DeclareOption{USenglish}{%
                         \PassOptionsToPackage{american}{babel}
                    28
                    29
                          \PassOptionsToPackage{english=american}{csquotes}
                    30
                         \@clearglobaloption{american}}
```

draft option
final option
@draft switch

If the user requests draft we mark any overfull boxes. There is more interesting stuff to be added to this option; one could think of altered running titles or watermarks, for example.

As this option is handed along the package chain it might have other effects, too.

31 \newif\if@draft

```
32 \DeclareOption{draft}{%
33     \@drafttrue
34     \overfullrule 10pt
35 }%
36 \DeclareOption{final}{%
37     \@draftfalse
38     \overfullrule\z@
39 }%
```

referee option noreferee option

The options referee and review switch to *referee mode*. In referee mode some information at the titlepage are removed in order to allow an anonymous submission.

review option
noreview option
@referee switch

40 \newif\if@referee

- 41 \DeclareOption{referee}{\@refereetrue}
- 42 \DeclareOption{noreferee}{\@refereefalse}
- 43 \DeclareOption{review}{\@refereetrue}
- 44 \DeclareOption{noreview}{\@refereefalse}

cover option nocover option

Switches cover production on or off. If cover is given then the four cover pages (outer and inner pages of front and back, respectively) are produced and added to the document.

\coveron
\coveroff
@cover switch

45 \newif\if@cover

- 46 \def\coveron{\@covertrue}
- 47 \def\coveroff{\@coverfalse}
- 48 \DeclareOption{cover}{\coveron}
- 49 \DeclareOption{nocover}{\coveroff}
- 50 \newif\if@microtype
- 51 \@microtypetrue
- 52 \DeclareOption{nomicrotype}{\@microtypefalse}

Completing option handling, by now unprocessed option are handed over to the base class article and the class options list is processed from the left to the right.

- 53 \PassOptionsToClass{a4paper,twoside,11pt}{article}%
- 54 \DeclareOption\*{\PassOptionsToClass{\CurrentOption}{article}}%
- 55 \ExecuteOptions{american,final,noreferee,nocover,oneside,openany}%
- 56 \ProcessOptions\*\relax%
- 57 \IfFileExists{latexrelease.sty}%
- 58 {\RequirePackage[latest]{latexrelease}}%
- 59 {\RequirePackage{fixltx2e}}%

## 19.2 Loading the base class and packages

This class is build upon the LATEX standard class article.

- 60 \LoadClass{article}[2001/06/01]%
- 61 \RequirePackage[utf8]{inputenc}%

This loads font definitions for text and mathematics. The package allows the user to select font encodings, and for each encoding provides an interface to 'font-encoding-specific' commands for each font. Its most powerful effect is to enable hyphenation to operate on texts containing any character in the font. It is distributed as part of the LATEX  $2_{\mathcal{E}}$  distribution.

```
62 \RequirePackage[T1]{fontenc}%
```

Since many PostScript fonts only implement a subset of the TS1 encoding which contains text symbols for use with the T1-encoded text fonts, many commands only produce black blobs of ink. The textcomp package is supplied as a part of the LATEX base distribution to resolve the resulting problems [20].

```
63 \RequirePackage[full]{textcomp}%
```

The microtype package provides a LaTeX interface to the micro-typographic extensions of pdfTeX: most prominently, character protrusion and font expansion, furthermore the adjustment of interword spacing and additional kerning, as well as hyphenatable letterspacing (tracking) and the possibility to disable all or selected ligatures [16]. It allows to apply these features to customisable sets of fonts, and to configure all micro-typographic aspects of the fonts in a straight-forward and flexible way. Settings for various fonts are provided.

babel is a package providing an environment in which documents can be typeset in a language other than US English, or in more than one language [3].

```
73 \RequirePackage{babel}%
```

This style option improves the interface for defining floating objects such as figures and tables in LaTeX [11]. It adds the notion of a 'float style' that governs appearance of floats. New kinds of floats may be defined using a \newfloat command analogous to \newtheorem. This style option also incorporates the functionality of David Carlisle's style option here, giving floating environments a [H] option which means *Put it here!* (as opposed to the standard [h] option which means *Put it here if possible, or otherwise at the next page if no alternative position is specified.*).

```
74 \RequirePackage{float}
```

The caption package gives the user the possibility to control the look & feel of the captions from floating environments like figure and table. Furthermore it does similar to the caption stuff coming from other packages (like the longtable or supertabular package) [7].

For more information on that see the english, russian, or german user documentation.

```
75 \RequirePackage[font={small}]{caption}
```

#### 19.2.1 Colour and graphics

graphicx as part of the graphics package provides a key-value interface for optional arguments to the \includegraphics command [13].

76 \RequirePackage{graphicx}%

The package xcolor is a color extension for LATEX and pdfLATEX that provides easy driver-independent access to several kinds of colors, tints, shades, tones, and mixes of arbitrary colors by means of color expressions [22].

77 \RequirePackage[fixinclude,table]{xcolor}%

The bibliatex package [4] is a complete reimplementation of the bibliographic facilities provided by LaTeX in conjunction with BibTeX. It redesigns the way in which LaTeX interacts with BibTeX at a fairly fundamental level. With bibliatex, BibTeX is only used to sort the bibliography and to generate labels. Instead of being implemented in BibTeX's style files, the formatting of the bibliography is entirely controlled by TeX macros. Good working knowledge in LaTeX should be sufficient to design new bibliography and citation styles. There is no need to learn BibTeX's postfix stack language. Just like the bibliography styles, all citation commands may be freely (re)defined.

Apart from the features unique to biblatex, the package also incorporates core features of the following packages: babelbib, backref, bibtopic, bibunits, chapterbib, cite, citeref, inlinebib, mlbib, multibib, natbib, splitbib. There are also some conceptual parallels to the amsrefs package. The biblatex package supports split bibliographies, multiple bibliographies within one document, and separate lists of bibliographic shorthands. Bibliographies may be subdivided into parts (by chapter, by section, etc.) and/or segmented by topics (by type, by keyword, etc.). The package is fully localized and can interface with the babel package.

This package requires e-TeX and the etoolbox package. Installing the csquotes package is recommended.

78 \RequirePackage{etoolbox}%

We use it with these options:

style=emisa sets the base name of the bibliography and citation format files; thus we use emisa.bbx and emisa.cbx that are defined below.

natbib=true enables the use of natbib citation commands with biblatex.

maxcitenames=3 Author lists with more than two entries are abbreviated with "et al.". Note that in the bibliography listing author lists won't be shortened at all.<sup>1</sup>

terseinits If Initials are given with (false) or without (true) punctuation and whitespace.

isbn=false In bibliographies, no ISBNS, ...

```
url=false... no URLs,...
doi=false... no DOIs,...
```

eprint=false ... and no ePrint marks are displayed.

dashed=false Identical author entries of consecutive bibliography entries don't get replaced by a dash (beginning with the second one).

 $<sup>^{1}</sup>$ That is, they will be shortened if there are more than 999 authors. That should occur not that often, though.

```
79 \RequirePackage[%
80
       style=emisa,%
       natbib=true,%
81
       backend=biber,%
82
83 ]{biblatex}
84 \ExecuteBibliographyOptions{%
     maxcitenames=2,%
85
     maxbibnames=999,%
86
87
      terseinits=false,%
     isbn=false,%
88
     url=true,%
89
     doi=false,%
     eprint=false,%
91
     dashed=false,%
92
     bibencoding=inputenc,%
93
     sorting=anyt,%
94
     hyperref=true,%
95
      uniquename=minfull,%
     uniquelist=false%
97
98 }%
```

This package provides advanced facilities for inline and display quotations [8]. Quotation marks are switched automatically if quotations are nested and can adjust to the current language. There are additional facilities designed to cope with the more specific demands of academic writing, especially in the humanities and the social sciences. All quote styles as well as the optional active quotes are freely configurable.

99 \RequirePackage[autostyle=once]{csquotes}

#### **19.2.2** Helpers

twoopt provides commands to define macros with *two* optional parameters. This package is part of the *Oberdiek* bundle [21].

```
100 \RequirePackage{twoopt}%
```

environ provides a new method of defining environments [9].

101 \RequirePackage{environ}%

paralist provides a few new list environments. Itemized and enumerated lists can be typesetted within paragraphs, as paragraphs and in a compact version. Most environments have optional arguments to format the labels. Additionally, the LATEX environments itemize and enumerate can be extended to use a similar optional argument [17].

The options' meanings are as follows:

neveradjust The width of the labels is never adjusted, not even for environments where you defined the labels manually using the optional argument.

defblank The two environments inparablank and asparablank will be defined.

flushright The labels in the four lists mentioned above are set flush right.

102 \RequirePackage[neveradjust,defblank,flushright]{paralist}%

We make the traditional list environments equal the compact ones so there is no visual difference and they are both modifiable easily.

- 103 \let\itemize\compactitem
- 104 \let\enditemize\endcompactitem
- 105 \let\enumerate\compactenum
- 106 \let\endenumerate\endcompactenum
- 107 \let\description\compactdesc
- 108 \let\enddescription\endcompactdesc

These macros are imported from paralist, setting standard enumeration marks and list indentations.

```
109 \setdefaultenum\{1.\}\{a\}\{i.\}\{A\}\%
```

- 110 \setdefaultleftmargin{1em} $\{0.9em\}\{0.7em\}\{0.5em\}\{0.4em\}\{0.3em\}\%$
- 111 \setlength{\plitemsep}{3\p@}%
- 112 \setlength{\pltopsep}{6\p@}

afterpage implements a command that causes the commands specified in its argument to be expanded after the current page is output [1].

The xspace package provides a single command that looks at what comes after it in the command stream, and decides whether to insert a space to replace one "eaten" by the TEX command decoder. The decision is based on what came after any space, not on whether there was a space (which is unknowable): so if the next thing proves to be punctuation, the chances are there was no space, but if it's a letter, there's probably a need for space [23].

calc adds infix expressions to perform arithmetic on the arguments of the LATEX commands \setcounter, \addtocounter, \setlength, and \addtolength [6].

All three packages are part of the tools bundle in the LATEX required distribution.

```
113 \RequirePackage{afterpage,xspace,calc}%
```

geometry provides an easy and flexible user interface to customize page layout, implementing auto-centering and auto-balancing mechanisms so that the users have only to give the least description for the page layout [12].

An important feature is the package's ability to communicate the paper size it's set up to the output (whether via DVI \specials or via direct interaction with pdfIATeX).

114 \RequirePackage{geometry}%

eso-pic adds one or more user commands to LaTeX's shipout actions, making it easy to add some picture commands to any and every page at absolute positions [10].

```
115 \RequirePackage{eso-pic}%
```

116 \RequirePackage{placeins}%

#### 19.2.3 Scripts, fonts, and maps

```
117 \RequirePackage{newtxtext}
118 \RequirePackage{newtxmath}
119 \RequirePackage[zerostyle=b,straightquotes]{newtxtt}
120 \if@microtype
121 \UseMicrotypeSet[protrusion]{basicmath} % disable protrusion for tt fonts
122 \fi%
```

To make figures and ligatures searchable when using pdf $T_EX \ge 1.40$ , glyph-to-unicode translation must be enabled. The default table glyphtounicode.tex contains mappings from glyph names to corresponding unicode for embedded fonts. It covers the AGL (Adobe Glyph List), names from texglyphlist.txt (part of lcdf-typetools) and zapfdingbats.txt, plus a few exceptions.

```
123 \InputIfFileExists{glyphtounicode}%
      {\ClassInfo{emisa}{Reading file `glyphtounicode.tex`}
124
       \pdfgentounicode=1}%
125
      {\ClassWarning{emisa}{Couldn't find file `glyphtounicode.tex`}}%
126
127
      \RequirePackage{booktabs}
      \RequirePackage{listings}
128
      \lstset{basicstyle=\ttfamily\small}
129
130
      \lstnewenvironment{java}[1][]
          {\lstset{language=Java,float=*htbp,#1}}
131
132
      \lstnewenvironment{java*}[1][]
133
          {\lstset{language=Java,float=htbp,#1}}
134
          {}
135
136
      \lstnewenvironment{sourcecode}[1][]
          {\lstset{float=*htbp,#1}}
137
          {}
138
139
      \lstnewenvironment{sourcecode*}[1][]
          {\lstset{float=htbp,#1}}
140
          {}
141
      \RequirePackage{amsmath}
142
      \RequirePackage[amsmath,standard,hyperref]{ntheorem}
143
```

#### 19.3 Hypertext

The hyperref package [14] has to loaded as late as feasible so it can intercept changes to standard macros by other packages.

```
144 \RequirePackage{url}
145 \urlstyle{same}
146 \RequirePackage[%
147     colorlinks,
148     breaklinks,
149     pdfview=Fit,
150     bookmarksopen,
151     bookmarksnumbered,
152     linkcolor=black,
```

```
153 anchorcolor=black,
154 citecolor=black,
155 filecolor=black,
156 urlcolor=black,
157 hyperfootnotes=false
158 ]{hyperref}%
159 \RequirePackage{doclicense}
```

#### **19.4** Tools

\@ifempty
\@ifarg
\@ifnoarg

These determinate if an argument ist empty (or not) and to act consequently. An argument is ,empty', iff it contains nothing or just whitespace. All three macros first test their first argument. If it is empty \@ifempty then executes the second one, otherwise the third one. \@ifnoarg und \@ifarg execute their respective second argument iff the the first one is (not) empty.

#### **Syntax:**

```
\label{eq:continuous} $$ \left( arg \right) { \left( Action_if_empty \right) } \\ \left( arg \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_not_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_not_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_not_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_not_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Action_if_empty \right) } \\ \left( arg \left( arg \right) \right) { \left( Arg \left( arg \right) \right) } \\ \left( arg \left( arg \right) \right) { \left( arg \left( arg \right) \right) } \\ \left( arg \left( arg \left( arg \right) \right) { \left( arg \left( arg \right) \right) } \\ \left( arg \left( arg \left( arg \right) \right) { \left( arg \left( arg \left( arg \right) \right) } \\ \left( arg \left( a
```

## 19.5 Basic page layout

The geometry options using the keyval  $(\langle key \rangle = \langle value \rangle)$  interface can be set either in the optional argument to the \usepackage command, or in the argument of the \geometry macro. In either case, the argument consists of a list of comma-separated keyval options. \geometry acts cumulative; so multiple use just appends options to the list.

```
167 \geometry{%
      a4paper,%
168
      portrait,%
169
      twoside,%
170
      ignoreall,%
171
      hcentering,%
172
173
      textwidth
                         = 162.5 \text{mm}, \%
      textheight
                         = 220 \text{mm}, \%
174
      heightrounded,%
175
                         = 12.5 \text{mm},%
      columnsep
176
                         = 47mm, %
      top
177
178
      headheight
                         = 16mm, \%
```

```
179
       headsep
                       = 13mm, %
 180
       marginparwidth = 15mm,%
       marginparsep
                       = 5 \text{mm}, \%
 181
       footskip
                       = 16mm\%
 182
       }%
 183
 184 \marginparpush 5mm%
 185 \AtBeginDocument{\baselineskip=13.6pt plus 0.5pt}%
 186 \parindent=4mm%
 187 \smallskipamount=.5\baselineskip
     \medskipamount=2\smallskipamount
     \bigskipamount=2\medskipamount
     \flushbottom
     \abovedisplayskip=.5\baselineskip plus .33\baselineskip
                                         minus .33\baselineskip
 192
     \belowdisplayskip=\abovedisplayskip
     \abovedisplayshortskip= Opt plus .33\baselineskip
     \belowdisplayshortskip=.5\baselineskip plus .33\baselineskip
                                              minus .33\baselineskip
 196
19.6 Scripts
Assigning scripts to text elements.
Page head and foot:
 197 \def\pageheadfont{\normalfont}%
 198 \def\pagenumfont{\pageheadfont\bfseries}%
 199 \def\pagefootfont{\pageheadfont}%
The elements of the article titles:
 200 \def\authorfont{\normalfont\Large}%
 201 \def\titlefont{\normalfont\bfseries\LARGE\boldmath}%
 202 \def\subtitlefont{\normalfont\bfseries\Large\boldmath}%
 203 \def\abstractfont{\normalfont\itshape}%
The elements of the affiliation box:
 204 \def\affiliationfont{\normalfont}
 205 \def\affiliationauthorfont{\bfseries}
 206 \def\affiliationaddressfont{\mdseries}
 207 \def\affiliationemailfont{\mdseries}%
Section headlines:
 208 \def\sectionfont{%
 209
       \normalfont
       \bfseries
```

\pageheadfont

\pagenumfont

\pagefootfont

\authorfont \titlefont

\subtitlefont

\abstractfont

\affiliationfont

\sectionfont

\sec@font

\para@font

\boldmath}%

212 \def\sec@font{\sectionfont\large}%

211

\affiliationauthorfont

\affiliationaddressfont

\affiliationemailfont

```
213 \def\para@font{\sectionfont}%
```

\captionfont Captions:

214 \def\captionfont{\normalfont\small\itshape}

#### 19.7 Colours

These are the colour definitions for a couple of elements.

coverbgcolor color covertextcolor color

The colours of the cover background (near 25% grey) and cover text (such as headlines, near 75% grey):

- 215 \definecolor{coverbgcolor}{cmyk}{0.15,0.1,0.09,0}%
- 216 \definecolor{covertextcolor}{cmyk}{0.77,0.76,0.70,0.61}%

headtextcolor color boxframecolor color boxbgcolor color

These are the colours of the grey elements in column titles (50% grey) and of the frame and the background of text boxes like that one used in \editorialboard (100% grey = black and 20% grey, respectively).

- 217 \definecolor{headtextcolor}{gray}{0.5}%
- 218 \definecolor{boxframecolor}{gray}{1}%
- 219 \definecolor{boxbgcolor}{gray}{0.8}%

## 19.8 Double line spacing

\displayskipstretch \setdisplayskipstretch

- 220 \newcommand{\displayskipstretch}{\baselinestretch}
- 221 \newcommand{\setdisplayskipstretch}[1]{\def\displayskipstretch{#1}}

\setstretch Line space commands.

- 222 \newcommand{\setstretch}[1]{%
- \def\baselinestretch{#1}%
- 224 \@currsize
- 225 }

\@setsize Modification of the LaTeX command \@setsize. Stretch the baseline before calculating the strut size. This improves spacing below tabular environments etc., probably.

The meanings of the arguments to \@setsize appear to be (whatever these may signify):

#### Syntax:

```
\ensuremath{\mbox{\tt @setsize}} {\langle \textit{current size} \rangle} {\langle \textit{font baselineskip} \rangle} {\langle \textit{ignored (!)} \rangle} {\langle \textit{font size} \rangle}
```

Note that \@setsize (in modern LATEX, \@setfontsize, which is called by \@setsize) seems to be the only place in purely modern LaTeX where \@currsize is set, and ltxguide.cls seems to be the only file in the LaTeX base distribution that uses it.

- 226 \def\@setsize#1#2#3#4{%
- \@nomath#1% 227
- 228 \let\@currsize#1%
- \baselineskip #2%
- \baselineskip=\baselinestretch\baselineskip 230

```
231 \parskip=\baselinestretch\parskip
232 \setbox\strutbox \hbox{%
233 \vrule height.7\baselineskip
234 depth.3\baselineskip
235 width\z@}%
236 \skip\footins=\baselinestretch\skip\footins
237 \normalbaselineskip\baselineskip#3#4}
```

Fix up spacing before and after displayed math (arraystretch seems to do a fine job for inside LaTeX displayed math, since array and equarray seem to be affected as expected).

```
238 \everydisplay\expandafter{%
239 \the\everydisplay
240 \abovedisplayskip \displayskipstretch\abovedisplayskip
241 \belowdisplayskip \displayskipstretch\belowdisplayskip
242 \abovedisplayshortskip \displayskipstretch\abovedisplayshortskip
243 \belowdisplayshortskip \displayskipstretch\belowdisplayshortskip
244 }
```

#### 19.9 Document markup

## 19.9.1 Declaring issue data

The following macros save their argument(s) to internal variables for later usage:

\journalname The journal name.

```
245 \def\journalname#1{\@bsphack\def\@journalname{#1}\@esphack}%
246 \journalname{Enterprise Modelling and Information Systems Architectures}%
```

\journalsubtitle The journal's subtitle.

```
247 \def\journalsubtitle#1{\@bsphack\def\@journalsubtitle{#1}\@esphack}%
248 \journalsubtitle{International Journal of Conceptual Modeling}%
```

issn The International Standard Serial Number (ISSN) is the standardized international code which allows the identification of any serial publication, including electronic serials, independently of its country of publication, of its language or alphabet, of its frequency, medium, etc.; see the ISSN web site.

Here we have two of them, one for print and one for online issues.

253 \volume{\textcolor{red}{0}}%

```
254 \def\issue#1#2{\@bsphack
                                255
                                       \def\@issue{#1}%
                                       \def\@issuedate{#2}%
                                256
                                       \@esphack}%
                                \label{lem:color} $$ \sue{\text{\color}{red}_{0}}{\operatorname{\color}{red}_{month\ 0000}}_{\%} $$
       \specialissuetitle If the current issue is a special issue, the respective title goes here.
      \specialissuetitle*
                                259 \def\specialissuetitle{\@ifstar\@sspit\@spit}%
\specialissuetitleprefix
                                260 \newcommand{\@spit}[2][]{%
                                261
                                       \@bsphack
                                       \@ifempty{#2}%
                                262
                                        {\let\@specialissuetitle\relax}%
                                263
                                        {\@ifempty{#1}%
                                264
                                          {\def\@specialissuetitle{\@specialissuetitleprefix#2}}%
                                265
                                          {\def\@specialissuetitle{#1\space#2}}}%
                                266
                                       \@esphack}%
                                267
                                268 \newcommand{\@sspit}[2][]{%
                                       \@bsphack
                                269
                                       \@ifempty{#2}%
                                270
                                271
                                        {\let\@specialissuetitle\relax}%
                                        {\def\@specialissuetitle{#2}}%
                                272
                                       \@esphack}%
                                273
                                274 \newcommand{\specialissuetitleprefix}[1]{%
                                       \@bsphack
                                275
                                       \@ifempty{#1}%
                                276
                                          {\let\@specialissuetitleprefix\relax}%
                                          {\def\@specialissuetitleprefix{#1\space}}%
                                278
                                       \@esphack}%
                                279
                                280 \specialissuetitle{}%
                                281 \specialissuetitleprefix{Special Issue on}%
           \copyrightyear
                              Copyright owner and year.
         \copyrightholder
                                282 \def\copyrightyear#1{\@bsphack\def\@copyrightyear{#1}\@esphack}%
                                283 \copyrightyear{\the\year}%
                                284 \def\copyrightholder#1{\@bsphack\def\@copyrightholder{#1}\@esphack}%
                                285 \copyrightholder{\textcolor{red}{\copyright{}holder}}%
                               Title, subtitle, and author information for the current article.
                     \title
                 \subtitle
                               These macros are a bit special as they accept up to two optional arguments together with the obligatory
                    \author
                               one. The optional arguments are for the running-title (short) and the table-of-contents (ToC) versions,
                               respectively, of the main entry, if there is any:
                               Syntax:
                               \title[\langle short\_title \rangle][\langle ToC\_title \rangle]\{\langle title \rangle\}
                               \subtitle[\langle short\_subtitle \rangle][\langle ToC\_subtitle \rangle]\{\langle subtitle \rangle\}
                               \author[\langle short\_author \rangle][\langle ToC\_author \rangle]\{\langle author \rangle\}
```

Issue number and date.

\issue

If no optional argument is given the obligatory argument will appear in all the respective places.

If *one* optional argument is given then its' value replaces both the *short* and the *ToC* entries.

If *two* optional arguments are given then the value of the first one becomes the *short* headline (et al.) entry, and the second one is reproduced in the table of contents.

If *both* optional arguments are given but the first one is left empty then the *short* entry defaults also to the main value, and only the *ToC* entry is changed.

```
\renewcommandtwoopt*{\title}[3][][]{%
287
     \@bsphack
288
     \def\@title{#3}%
     \@ifempty{#1}{\def\@shorttitle{\@title}}{\def\@shorttitle{#1}}%
289
             290
     \@esphack}%
291
   \newcommandtwoopt*{\subtitle}[3][][]{%
292
     \@bsphack
293
     \def\@subtitle{#3}%
294
     \@ifempty{#1}{\def\@shortsubtitle{\@subtitle}}{\def\@shortsubtitle{#1}}%
295
     296
     \@esphack}%
297
   \def\end{1}{
298
      \ifx\@email\@empty
299
        \def\@email{#1}
300
      \else
301
        \ClassError{emisa}{There can only be one corresponding author!}{}
302
     \fi}%
303
   \renewcommand{\author}{\@ifstar{\@authorstar}}\@authornostar}}
   \newcommand*{\@authornostar}[1]{%
     \@bsphack
306
     \if@referee
307
       \def\@authors{}%
308
       \def\@shortauthors{}
309
310
        \gdef\@address@sep{}%
311
        \ifx\@authors\@empty
312
            \protected@xdef\@authors{#1}
313
            \protected@xappto\@shortauthors{#1}
314
        \else
315
            \protected@xappto\@authors{,\space #1}
316
            \protected@xappto\@shortauthors{,\space #1}
317
        \fi%
318
     \fi
319
     \@esphack}%
   \newcommandtwoopt*{\@authorstar}[3][][]{%
321
      \@bsphack
322
      \if@referee
323
        \def\@authors{}%
324
        \def\@shortauthors{}%
325
```

```
\def\@tocauthors{}%
326
         \def\@email{}\%
327
       \else
328
         \gdef\@address@sep{}%
329
         \ifx\@authors\@empty
330
             \protected@xdef\@authors{#3\textsuperscript{*,}}
331
332
             \protected@xappto\@shortauthors{#3}
         \else
333
             \protected@xappto\@authors{,\space #3\textsuperscript{*,}}
             \protected@xappto\@shortauthors{,\space #3}
335
         \fi%
336
        337
         338
       \fi
339
       \@esphack
340
       \@ifnextchar\bgroup\email{\ClassError{emisa}{Please provide an email address for the correspondent
341
   \newcommand{\keywords}[1]{
342
      \@bsphack
344
      \left\langle \right\rangle \
      \def\@keywords{#1}%
345
      \@esphack}%
346
   \newcommand{\authornote}[1]{
347
      \@bsphack
348
      \if@referee
349
         \def\@authornote{}%
350
351
      \else
         \def\@authornote{#1}%
352
      \fi%
353
      \@esphack}%
354
   \verb|\newcommand{\editor}[1]{|}
355
      \@bsphack
356
      \def\@articleinfo@name{#1}%
357
      \@esphack}%
358
359
   \newcommand{\received}[1]{
360
      \@bsphack
      \def\@articleinfo@rdate{#1}%
361
      \@esphack}%
362
   \verb|\newcommand{\accepted}[2][]{|}
363
      \@bsphack
364
      \def\@articleinfo@rounds{#1}
365
      \def\@articleinfo@adate{#2}%
366
      \@esphack}%
367
   \newcommand{\doitext}{DOI:}
368
   \newcommand*{\outdoi}{%
369
     \begingroup
370
     \c) = \c) \#\c)
371
     \label{def-{\#}}%
372
     \lccode`\~=`\_\relax
373
```

 $\label{def-{\_}}$ %

374

```
375
      \c) = \c) < \c)
      \label{lowercase} $$ \operatorname{def}_{\text{textless}}% $$
376
      \lccode`\~=`\>\relax
377
      \lowercase{\def~{\textgreater}}%
378
      \lccode`\~=0\relax
379
      \catcode`\#=\active
380
      \catcode`\_=\active
381
      \catcode`\<=\active
382
      \catcode`\>=\active
      \@outdoi
384
385 }
386 \def\@outdoi#1{%
      \let\#\relax
387
      \let\_\relax
388
389
      \let\textless\relax
390
      \let\textgreater\relax
      \edsext{toks0={{#1}}}%
391
392
393
      \ensuremath{\texttt{def}}{\#{\texttt{Qpercentchar23}}}\%
      \left\{ -\left\{ _{-}\right\} \right\} 
394
      \edef\textless{\@percentchar3C}% instead of {\string<} for Apple</pre>
395
      \edef\textgreater{\@percentchar3E}% instead of {\string>} for Apple
396
      \edef\x{\toks1={\noexpand\href{http://dx.doi.org/#1}}}%
397
398
399
      \edef\x{\endgroup\doitext\the\toks1 \the\toks0}%
400
401 }
402
   \newcommand*{\doi}[1]{
       \@bsphack
403
       \def\@doi{#1}
404
       \@esphack}%
405
   \newcommand{\acknowledgements}[1]{
406
       \@bsphack
407
       \def\@acknowledgements{#1}
       \@esphack}%
409
410 \newif\if@licenseset
   \newcommand{\licence}[1]{%
411
       \@bsphack
412
       \def\@licence{#1}
413
       \@esphack}%
414
415 \let\license\licence
   \newcommand{\CCBYNCSAThree}{%
416
       \@licensesettrue%
417
       \def\doclicense@type{CC}%
418
       \def\doclicense@modifier@uppercase{BY-NC-SA}%
419
       \def\doclicense@versionUsed{3.0}%
420
421 }%
422 \newcommand{\CCBYNCSAFour}{%
       \@licensesettrue%
423
```

```
\def\doclicense@type{CC}%
424
      \def\doclicense@modifier@uppercase{BY-NC-SA}%
425
      \def\doclicense@versionUsed{4.0}%
426
427 }%
   \newcounter{addresses}
428
   \renewcommand{\theaddresses}{\alph{addresses}}
   \newcommand{\address}[2][]{%
430
     \@bsphack
431
432
     \if@referee
433
        \def\@addresses@list{}
     \else
434
         \@ifempty{#2}{%
435
              \@ifempty{#1}{}{%
436
                   \protected@xappto\@authors{\textsuperscript{\@address@sep #1}}
437
                   \gdef\address@sep{,}%
438
439
          }}{%
                \stepcounter{addresses}
440
                \protected@xappto\@authors{\textsuperscript{\@address@sep\theaddresses}}
441
442
                \gdef\@address@sep{,}%
                \ifx\@addresses@list\@empty
443
                    \protected@xdef\@addresses@list{\textsuperscript{\theaddresses}\ #2}
444
                \else
445
                    \protected@xappto\@addresses@list{\newline\textsuperscript{\theaddresses}\ #2}
446
                \fi}
447
     \fi
448
     \@esphack}%
449
450 \title{}%
451 \subtitle{}%
452 \author{}%
453 \address{}
454 \keywords{}%
455 \authornote{}%
456 \editor{}%
457 \received{}%
458 \accepted{}%
459 \doi{}%
460 \licence{}
461 \acknowledgements{}%
462 \def\abstract#1{\@bsphack\def\@abstract{#1}\@esphack}%
463 \abstract{}%
464 \def\@authors{}
465 \def\@shortauthor{}
466 \def\@shortauthors{}
467 \def\@tocauthor{}
468 \def\@tocauthors{}
469 \def\@email{}
470 \def\@addresses@list{}
```

\abstract This accepts the abstract text.

```
 \label{lem:def_abstract} $$471 \def\abstract{#1}\@esphack{$\%$} $
```

472 \abstract{}%

\outputarticleappendix
\@articleappendix
\@wrap@articleappendix
articleappendix

The articleappendix and articleappendix\* environments collect the material given within them inside an article environment. The collected material is accumulated and output at the article's very end. The basic form articleappendix begins a new page per instance while the starred form articleappendix\* does not. Each appendix is wrapped into its own group so things remain local.

```
473 \DeclareRobustCommand{\outputarticleappendix}{%
474
      \appendix
475
476 \@articleappendix
477 \global\let\@articleappendix\relax
     }%
478
479 }%
480 \long\def\@wrap@articleappendix#1{\gappto{\@articleappendix}{{#1}}}
   \newenvironment{articleappendix}{%
     \gappto{\@articleappendix}{\clearpage}%
     \Collect@Body\@wrap@articleappendix}{}
484 \newenvironment{articleappendix*}{%
     \Collect@Body\@wrap@articleappendix}{}
485
486 \let\@articleappendix\relax
487 \def\@makefnmark{\textsu{\@thefnmark}\ }%
   \renewcommand\@makefntext[1]{%
488
       \parindent 1em%
489
       \noindent%
490
       \@makefnmark#1}%
491
```

#### 19.9.2 Page styles

This is the standard page style:

**Page Head:** three lines of text, \textwidth wide and aligned to the inner and outer text body borders, respectively, each above a black horizontal line at full sheet width. The text entries comprise:

Line 1, inner side:

```
▶ left pages: journal's subtitle;
```

> right pages: journal name.

outer side: no text.

Line 2, inner side: volume/number/issue date, text colour is 50 % grey;

outer side: no text.

Line 3, inner side:

▶ left pages: section name;

□ common right pages: author's name(s);

▶ editorial content, both sides: section or category name;

text colour is 50 % grey;

outer side: page number in bold type, coloured black, shifted by an amount of \headpageoffset to the outer edge of the page.

**Page foot:** Mostly empty; sometimes in editorial content sections it shows a black horizontal line from the outer text edge to the inner sheet edge (spine).

\headwidth \headmargin

Basic lengths for head and foot elements. \headwidth is the overall width of the headbox equalling the page width plus a bleed of three millimeters. It is logically restricted to \textwidth by substracting \headmargin at both sides.

\bleed

*Bleed* is a printing term that refers to printing beyond the edge of the sheet after trimming. The **\bleed** is a measure describing the (small) amount of space by which objects on the border of your document will extend. Please note that this length is not added automatically, but has to be added manually.

\footrulewidth

The width of the foot rule. As it is drawn asymmetrically (running from the outer text edge to the spine) it has to be a bit smaller than the head box.

\headfootruleheight

This is the width of all lines in head and foot.

- 492 \newlength{\headwidth}%
- 493 \newlength{\bleed}%
- 494 \newlength{\headmargin}%
- 495 \newlength{\footrulewidth}%
- 496 \newlength{\headfootruleheight}%
- 497 \setlength{\bleed}{3mm}%
- 498 \setlength{\headfootruleheight}{0.4mm}%

We want to be able to change \bleed in the preamble so we delay the calculations until \begin{document}.

- 499 \AtBeginDocument{%
- 500 \setlength{\headwidth}{\paperwidth+2\bleed}%
- $\verb| setlength{\headmargin}{0.5\headwidth-0.5\textwidth}| % \\$
- $\verb| \scale= 0.5\end{\cotrulewidth} $\{0.5\end{\cotrulewidth} $\{0.5\end{\cotrulewidth} $\} $$$

\headbox The main formatting routine for the running head is a tabular\* environment.

- 503 \newcommand{\headbox}[8]{\bgroup%
- 504 \setstretch{1}%
- 505 \reset@font\pageheadfont
- 506 \tabcolsep\z@
- 507 \arrayrulewidth\headfootruleheight
- 508 \hskip-\headmargin
- 509 \begin{tabular\*}{\headwidth}[b]%
- $>{\text{-1.25mm}}{\z@}{\text{5mm-}\arrayrulewidth}}$ %

- **514** #1 & #2\\
- 515 \hline
- **516** #3 & #4\\
- 517 \hline
- **518** #5 & #6\\
- 519 \hline
- 520 #7 & #8\\

```
\end{tabular*}%
                    521
                          \hskip-\headmargin
                    522
                          \egroup
                    523
                    524 }%
                   These macros are used to assemble the page head, ...
  \theheadvolume
 \headpageoffset
                    525 \newcommand{\theheadvolume}{%
 \theoddheadpage
                          \begingroup%
                    526
\theevenheadpage
                          \hypersetup{urlcolor=headtextcolor}%
                    527
                          \textcolor{headtextcolor}{%
                    528
                    529
                             Vol.\,\@volume, No.\,\@issue\ (\@issuedate).%
                             \ifx\@doi\@empty\else\ \outdoi{\@doi}\fi}%
                    530
                          \endgroup}%
                    531
                    532 \newlength{\headpageoffset}%
                    533 \setlength{\headpageoffset}{10mm}%
                    534 \def\theoddheadpage{%
                          \rlap{\makebox[\headpageoffset][r]{\pagenumfont\thepage}}}%
                    535
                    536 \def\theevenheadpage{%
                          \llap{\makebox[\headpageoffset][1]{\pagenumfont\thepage}}}%
 @footrule switch
                   ... and these are for the page foot.
    \footruleoff
                    538 \newif\if@footrule%
     \footruleon
                    539 \def\footruleoff{\global\@footrulefalse}%
       \footrule
                    540 \def\footruleon{\global\@footruletrue}%
                    541 \def\footrule#1{%
                         \if@footrule
                    542
                    543
                            \makebox[\textwidth][#1]{%
                              \reset@font
                    544
                              \rule[\headfootruleheight]{\footrulewidth}{\headfootruleheight}%
                    545
                              }\fi}%
                    546
  \headmarkstyle
                  Sets the content marks in the running titles.
       \markhead
                    547 \def\headmarkstyle#1{\@bsphack
    \markarticle
                    548
                          \def\@headmarkstyle{#1}%
  \markeditorial
                          \@esphack}%
                    549
                    550 \headmarkstyle{\color{headtextcolor}}%
                    551 \def\markhead#1#2{\@bsphack
                          \gdef\@evenmark{#1}%
                    552
                          \gdef\@oddmark{#2}%
                    553
                          \@esphack}%
                    555 \def\markarticle{\markhead{\@shortauthor}{\@shorttitle}}%
                    556 \def\markeditorial{\markhead{\@shorttitle}}%
                  Finally that all being thrown together gives the basic page style.
       \ps@emisa
                    557 \def\ps@emisa{%
                         \def\@oddhead{%
                    558
                            \headbox{\@journalname}{}%
                    559
                                    {\theheadvolume}{}%
                    560
```

```
{{\@headmarkstyle\@oddmark}}{\theoddheadpage}%
561
                                                                                   {\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\fi
562
563
                             }%
                             \def\@evenhead{%
564
                                       \headbox{}{\@journalsubtitle}%
565
                                                                                  {}{\theheadvolume}%
566
                                                                                   {\colored{\colored} {\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colore
567
                                                                                   {}{\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\:
568
                             }%
569
                             \let\@oddmark\relax
570
                             \let\@evenmark\relax
571
                             \def\@oddfoot{\footrule{r}}%
572
                             \def\@evenfoot{\footrule{1}}%
573
574 }%
```

## \ps@emisaarticle \ps@emisaeditorial

We have two minimally different page styles:

- > \ps@emisaarticle for author-named articles, showing the author's names on the left and the article title on the right side;
- > \ps@emisaeditorial for editorial material, showing the the article title on both sides.

```
575 \def\ps@emisaarticle{%
576
      \ps@emisa
577
      \markarticle
      \footruleoff
578
579 }%
   \def\ps@emisaeditorial{%
580
      \ps@emisa
581
582
      \markeditorial
     \footruleon
583
584 }%
585 \AtEndOfClass{\pagestyle{emisa}}%
```

## 19.9.3 Cover and advertisement pages

\basecoverfont \covervolumefont \covertitlefont These are the font and size definitions for cover pages. We are using the sansserif script from the Libertine package, called *Linux Biolinum*, in two different sizes with the title font being bold.

```
586 \def\basecoverfont{\normalfont\sffamily}%
587 \def\covervolumefont{%
588 \basecoverfont\fontsize{6mm}{6mm}\selectfont}%
589 \def\covertitlefont{%
590 \basecoverfont\bfseries\fontsize{11mm}{16.5mm}\selectfont}%
```

\coverIbgname \coverIVbgname \sigmobislogoname

\gislogoname

These are names for background graphics and logos. As these are subject to be changed from time to time these adjustments are put into the base config file, too.

```
591 \def\coverIbgname{U1_bg}%
592 \def\coverIVbgname{U4_bg}%
```

```
593 \def\sigmobislogoname{SIG-MOBIS-logo-300}%
                        594 \def\sigEMISAlogoname{EMISA-Logo-svg}%
                        595 \def\gislogoname{GIS-logo_with_text-300}%
                       \AtPageDeadCenter centers its argument horizontally and vertically around the geometric page center.
  \AtPageDeadCenter
                      This macro is to be used inside some eso-pic ShipoutPicture.
        \page@empty
                        596 \newcommand{\AtPageDeadCenter}[1]{%
                        597
                                \AtPageCenter{\makebox[\z@][c]{%
                                  \raisebox{-0.5}\totalheight}[\z@][\z@]{#1}}%
                        598
                        599 }%
                        600 \def\page@empty{\relax}%
             \pagebg Background color for one whole page plus bleed.
                        601 \newcommand{\pagebg}[1]{%
                              \AtPageDeadCenter{%
                        602
                                \textcolor{#1}{\rule{\paperwidth+2\bleed}{\paperheight+2\bleed}}}}%
                        603
                      \thispagebackground put its obligatory argument into the background of the running page. If there is
\thispagebackground
                       a non-empty optional argument it will be interpreted as the style of this page (using \thispagestyle).
                        604 \newcommand{\thispagebackground}[2][]{%
                              \@ifarg{#1}{\thispagestyle{#1}}%
                        605
                              \AddToShipoutPicture*{%
                                \unitlength 1mm\relax%
                        607
                                {#2}%
                        608
                        609 }}%
                      \picturepage additionally empties and flushes the running page, thus producing a picture-only page.
       \picturepage
                        610 \newcommand{\picturepage}[2][empty]{%
                              \thispagebackground[#1]{#2}%
                        611
                              \null\clearpage
                        612
                        613 }%
  \inputpagegraphic This loads a picture file to generate a picture-only page from.
                        614 \newcommandtwoopt*{\inputpagegraphic}[3][empty][]{%
                        615
                              \thispagebackground[#1]{\includegraphics[width=\paperwidth,#2]{#3}}%
                              \null\clearpage
                        616
                        617 }%
                      \coverpage is a special form of the \picturepage:
                        618 \newcommand{\coverpage}[2][]{%
                              \@ifarg{#1}{\setcounter{page}{#1}}%
                              \picturepage{#2}%
                        620
                        621 }%
```

#### \thecovervolumeline These represent the

\thecovertitle

```
622 \newcommand{\thecovervolumeline}{%
623
     \parbox[t]{130mm}{%
       \raggedright
624
       \color{covertextcolor}\covervolumefont%
625
       Volume\space\@volume
626
       \enspace\rule[-1mm]{0.5mm}{6mm}\enspace
627
       No.\,\@issue\space\textbf{\@issuedate}\\[3mm]%
628
       \@specialissuetitle
629
     }%
630
631 }%
   \def\thecovertitle{%
632
     \parbox[t][30mm][s]{174mm}{%
633
634
       \color{covertextcolor}%
       \covertitlefont
635
       \raggedright\@journalname\par
636
637
       \vskip8mm
       \covervolumefont
638
       \raggedleft
639
       \textbf{An International Electronic Journal\,}}}
640
```

\sigmobispage

This macro holds the complete announcement page on the *GI-SIG-MoBIS portal* to be published on the third cover page (backcover, inside).

\sigmobispage holds just the contents of the SIG-Mobis ad. It produces a box with an outer width of *zero points* and a height as specified by the inner minipage environment. When used as an advertising page it has to be *centered horizontally and vertically* in the page area. This is achieved most easily by using the \AtPageDeadCenter utility macro (see section 19.9.3) from eso-pic [10].

```
641 \def\sigmobispage{%
     \mbox[\z@][c]{\%}
642
       \begin{minipage}[c][260mm][s]{\textwidth}
643
         \sigmobispagehead
644
         \medskip
645
646
         The GI-SIG-MoBIS portal provides numerous resources on enterprise
647
         modelling research, such as a full-text digital library, a
         bibliography, conference announcements, a glossary and evaluation
649
         reports. It is intended to establish the premier forum for an
650
         international community in enterprise modelling. The new version
651
         is based on a Content Management System allowing authorized users
652
         to conveniently upload content. A \BibTeX{} interface allows for
653
         conveniently integrating bibliographic data. Information about
654
         this journal, such as guidelines for authors, tables of content
655
         and full-text access to articles (for GI-SIG-MobIS members only)
656
         are also available on the~portal.
657
         \par
658
         \medskip
659
660
```

```
\begin{center}
                     661
                                  \includegraphics{GI-SIG-MOBIS_portal}
                     662
                               \end{center}
                     663
                     664
                               \medskip
                     665
                     666
                               GI encourages everybody who wants to participate in the
                     667
                               evolution of this community knowledge base to contribute to any of
                     668
                           the categories covered by the portal. Please contact Michael He\ss{}
                           (\href{mailto:m.hess@uni-duisburg-essen.de}{m.hess@uni-duisburg-essen.de})
                      670
                           for further~information.
                     671
                     672
                               \vfill
                     673
                     674
                     675
                               \sigmobispagefoot
                             \end{minipage}%
                           }%
                     677
                     678 }
\sigmobispagehead
                    Elements of \sigmobispage.
\sigmobispagefoot
                     679 \def\sigmobispagerule#1{%
\sigmobispagerule
                     680 \parbox[c][23mm][s]{\linewidth}{%
                     681
                           \centering
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}%
                     682
                           \par\vfill
                     683
                           \raisebox{-.4\height}[.5\totalheight][.5\totalheight]{\huge#1}%
                     684
                           \par\vfill
                     685
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}}\par}%
                     686
                     687 \def\sigmobispagehead{\sigmobispagerule{SIG-MoBIS Portal}}
                     688 \def\sigmobispagefoot{\sigmobispagerule{http://wi-mobis.gi-ev.de/}}
                    Each of these prepares one of the cover pages.
          \coverI
         \coverII
                     689 \def\coverI#1{\@ifempty{#1}%
        \coverIII
                            {\let\@coverI\relax}%
                     690
         \coverIV
                            {\def\@coverI{\coverpage[-2]{#1}}}}%
                     692 \def\coverII#1{\@ifempty{#1}%
                            {\let\@coverII\relax}%
                     693
                            {\def\@coverII{\coverpage[-1]{\#1}}}}\%
                     694
                     695 \def\coverIII#1{\@ifempty{#1}%
                            {\let\@coverIII\relax}%
                     696
                            {\def\@coverIII{\coverpage{#1}}}}%
                     697
                     698 \def\coverIV#1{\@ifempty{#1}%
                            {\let\@coverIV\relax}%
                     699
                            {\def\@coverIV{\coverpage{#1}}}}%
                     700
                    So we prepare the four cover pages.
                     701 \coverI{%
                           \pagebg{coverbgcolor}%
                     702
                           \AtPageUpperLeft{%
                     703
```

```
704
       \raisebox{-\totalheight}{\includegraphics{\coverIbgname}}}%
     \AtPageUpperLeft{\put(17,-28){\mbox{%
705
       \includegraphics[height=19mm]{\sigmobislogoname}%
706
       \hspace{5mm}%
707
       \includegraphics[height=14.75mm]{\sigEMISAlogoname}%
708
       }}%
709
     }%
710
     \AtPageLowerLeft{\put(166,9){\includegraphics{\gislogoname}}}%
711
     \AtPageLowerLeft{\put(17,44){\thecovervolumeline}}%
     \AtTextLowerLeft{\put(-28,36){\framebox(200,62)[c]{}}}
713
     \AtPageLowerLeft{\put(17,112){\thecovertitle}}%
714
715 }%
716 \coverII{\page@empty}%
717 \coverIII{\AtPageCenter{\sigmobispage}}%
   \coverIV{%
718
719
     \pagebg{coverbgcolor}%
     \AtPageLowerLeft{%
720
       \raisebox{167mm}{\includegraphics{\coverIVbgname}}}%
721
722
     \AtPageLowerLeft{%
       \put(6,9){\put(6,9){\put(6,9)}{\normalfont{arge\sffamily\@issn}}}
723
     \AtPageLowerLeft{%
724
        \put(166,9){\includegraphics{GIS-logo_with_text-300}}}}%
725
726 }%
727 \if@cover
     \AtBeginDocument{%
728
       \@coverI\@coverII
729
730
       \setcounter{page}{1}%
731
     \AtEndDocument{%
732
733
       \@coverIII\@coverIV
     }%
734
735 \fi
```

\graphicspath

The picture files used above have to be found. Normally they should be somewhere on the TEX \$PATH, probably in the same directory where EMISAJ is situated. As least as we are in Beta state one might put them into the local subdirectory figs\_base/; we provide for that by including the following line in the config file.

```
736 \graphicspath{{/figs_base/},{./figs_base/}}
```

#### 19.9.4 Formatting common articles

\c@article The article and editorialcontent environments maintain their own (common) counter. Although it is not referenced anywhere at the moment of writing it is used to reset a couple of other counters with every new one of those environments.

```
737 \newcounter{article}%
738 \@addtoreset{section}{article}%
739 \@addtoreset{footnote}{article}%
```

```
740 \@addtoreset{figure}{article}%
                             741 \@addtoreset{table}{article}%
article This encapsulates each article.
                             742 \newenvironment{article}[1]{%
                                            \clearpage
                                            \refstepcounter{article}%
                             744
                                            \pagestyle{emisaarticle}%
                             745
                                            \col@number=\tw@\relax
                             746
                                            #1\relax
                             747
                                            \l@article
                             748
                         Every article is its own bibliographical unit.
                                             \begin{refsection}%
                             749
                                            \maketitle
                             750
                                            \ignorespaces
                             751
                             752
                                            \end{refsection}%
                             753
                                             \outputarticleappendix\FloatBarrier\par%
                             754
                                            \vspace{\baselineskip}%
                             755
                                            \noindent\ignorespaces
                             756
                                            \if@licenseset
                             757
                                                     \edef\doclicenseURL{%
                             758
                                                             \doclicense@baseUrlCC/%
                             759
                                                             licenses/%
                             760
                                                             \doclicense@modifier/%
                             761
                                                             \doclicense@versionUsed\doclicense@UrlLangPart%
                             762
                             763
                                                    \begin{minipage}{\columnwidth}
                             764
                                                     \parbox[t]{\dimexpr 0.975\columnwidth-\doclicense@imagewidth\relax}{\vskip 0pt\raggedright\:
                             765
                                                             \doclicense@lang@thisDoc\space
                             766
                                                             \label{localize} $$ \end{Type\space} \end{Type\space} \end{Localize} $$ \end{Type\space} $$ \end{Type\sp
                             767
                                                             \doclicense@lang@word@license.}%
                             768
                             769
                             770
                                                     \parbox[t]{\doclicense@imagewidth}{\vskip 0pt\doclicenseImage}%
                                                     \end{minipage}%
                             771
                             772
                             773
                                                     \ifx\@licence\@empty\relax\else\par\noindent\@licence\fi%
                             774
                                            \fi%
                                            \onecolumn
                             775
                                            \ignorespacesafterend}%
                             776
                         19.9.5 Formatting editorial content
```

\edit@setup This adjusts the basic page makeup for editorial material.

```
777 \newcommandtwoopt{\edit@setup}[3][][]{%
778 \title[#1][#2]{#3}
779 \pagestyle{emisaeditorial}
```

Here, section titles are a bit larger than otherwise.

- 780 \def\sec@font{\sectionfont\Large}%
- 781 \def\para@font{\sectionfont}%
- 782 \setcounter{section}{0}%
- 783 }9

#### editorialcontent

This encapsulates editorial content entries.

- 784 \newenvironment{editorialcontent}[1]{%
- 785 \onecolumn
- 786 \refstepcounter{article}%
- 787 \edit@setup{#1}%
- 788 \l@editorialcontent
- 789 \raisebox $\{5.5mm\}[10mm][0pt]\{\sec@font\@title\}\$

Every editorial content is its own bibliographical unit.

- 790 \begin{refsection}%
- 791 \ignorespaces
- 792 }{%
- 793 \end{refsection}%
- 794 \onecolumn
- 795 \ignorespacesafterend}%

#### 19.9.6 Standard editorial content environments

Several types of standardized editorial contents.

# editorial \editorialname

This encapsulates editorials.

- 796 \def\editorialname{Editorial Preface}%
- 797 \newenvironment{editorial}[1][\editorialname]{%
- 798 \clearpage
- 799 \edit@setup{#1}%
- \twocolumn[{\raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}}]%
- 801 \l@editorialcontent

Every editorial is its own bibliographical unit.

- 802 \begin{refsection}%
- 803 \ignorespaces
- 804 }{%
- 805 \end{refsection}%
- 806 \onecolumn
- 807 \ignorespacesafterend}%

# cfp Call for papers.

#### \cfpname

- 808 \def\cfpname{Call for Papers}%
- 809 \newenvironment{cfp}[1][\cfpname]%
- 810 {\editorialcontent{#1}}%
- 811 {\endeditorialcontent}%

```
\imprint Imprint.
\imprintname
                812 \newcommandtwoopt{\imprint}[2][\@imprintname][\@imprintbody]{%
\imprintbody
                813
                     \onecolumn
                     \edit@setup[#1]{\@journalname}%
                814
                     \l@editorialcontent
                     \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\
                816
                     \ignorespaces
                817
                     #2
                818
                     \onecolumn\ignorespacesafterend}%
                819
                820 \def\imprintname#1{\@bsphack\def\@imprintname{#1}\@esphack}%
                   \long\def\imprintbody#1{\@bsphack\def\@imprintbody{#1}\@esphack}%
                822 \imprintname{Imprint}%
                823 \imprintbody{%
                     The journal \emph{\@journalname} is the official journal of the
                824
                     Special Interest Group on Modelling Business Information Systems
                825
                826
                     within the German Informatics Society (GI-SIG MoBIS).
                827
                     The journal Enterprise Modelling and Information Systems
                828
                     Architectures is intended to provide a forum for those who prefer a
                829
                     design-oriented approach. As the official journal of the German
                830
                     Informatics Society (GI-SIG-MoBIS), it is dedicated to promote the
                831
                     study and application of languages and methods for enterprise
                832
                     modelling -- bridging the gap between theoretical foundations and
                833
                     real world requirements. The journal is not only aimed at
                834
                     researchers and students in Information Systems and Computer
                     Science, but also at information systems professionals in industry,
                836
                     commerce and public administration who are interested in innovative
                837
                     and inspiring concepts.
                838
                839
                     The journal's editorial board consists of scholars and practitioners
                840
                     who are renowned experts on various aspects of developing, analysing
                841
                     and deploying enterprise models. Besides Information Systems, they
                842
                     cover various fields of Computer Science.
                843
                844
                     \section*{Subscription Information}
                845
                846
                     The journal is distributed free of charge for members of the
                847
                     GI-SIG-MoBIS. Membership can be acquired through the German
                848
                     Informatics Society (http://www.gi-ev.de/verein/mitgliedschaft/).
                849
                     Single issues, priced at EUR\,25 each (plus shipment), can be ordered
                850
                     online (http://www.fg-mobis.gi-ev.de/).}
                851
```

\editorialboard Outputs the Editorial Board page.

\editorialboardname Sets the name of the Editorial Board for use in the table of contents and in \editorialboard.

\editorialboardbody Sets the contents of the Editorial Board for use in \editorialboard.

The vertical size of the Editorial Board will exceed page height if there are more than about 48 name entries and/or other material. To prevent that the grey box is scaled down to a height of \editorialboxmaxheight if its natural size is bigger than that.

```
852 \newsavebox{\@editorial@box}%
853 \newlength{\editorialboxmaxheight}%
   \setlength{\editorialboxmaxheight}{\textheight+10mm}%
   \newcommandtwoopt{\editorialboard}[2]%
    [\@editorialboardname][\@editorialboardbody]{%
856
857
     \clearpage
     \edit@setup[#1]{#1}%
858
     \l@editorialcontent
859
     \savebox{\@editorial@box}{%
       \vbox{\centering%
861
     \fboxsep=5mm
862
     \fcolorbox{boxframecolor}{boxbgcolor}{%
863
   \begin{minipage}[t]{110mm}
864
     \raggedright
865
     #2
866
   \end{minipage}}\\*
867
868 }%
869
     \raisebox{15mm-\totalheight}[5mm][0mm]{\makebox[\textwidth][c]{%
870
       \ifdim\ht\@editorial@box>\editorialboxmaxheight
871
     \resizebox{!}{\editorialboxmaxheight}{\usebox{\@editorial@box}}%
872
   \else
873
     \usebox{\@editorial@box}%
874
875 \fi
     }}\\*
     \raisebox{-\textheight}[0mm][0mm]{\makebox[\textwidth][1]{%
877
     \parbox[t]{\textwidth}{\raggedleft\bfseries\@issn}%
878
879 }}%
     \onecolumn\ignorespacesafterend
880
881 }%
   \def\editorialboardname#1{%
882
883
     \@bsphack\def\@editorialboardname{#1}\@esphack}%
   \long\def\editorialboardbody#1{%
884
     \@bsphack\def\@editorialboardbody{#1}\@esphack}%
   \editorialboardname{Editorial Board}%
   \editorialboardbody{%
887
     \section*{\@title}\vskip1mm
888
     {\Large Editors in Chief\\[1mm]}
889
     Ulrich Frank, University of Duisburg-Essen\\
890
     Manfred Reichert, Ulm University\\[1mm]
891
     {\Large Associate Editors\\[1mm]}
893
     Wil van der Aalst, Eindhoven University of Technology\\
     Witold Abramowicz, Poznan University of Economics\\
894
     Colin Atkinson, University of Mannheim\\
895
     J\"org Becker, University of M\"unster\\
896
```

```
J\"org Desel, University of Hagen\\
 897
       Werner Esswein, Dresden University of Technology\\
 898
       Fernand Feltz, Centre de Recherche Public Gabriel Lippmann\\
 899
       Andreas Gadatsch, Bonn-Rhine-Sieg University of Applied Sciences\\
 900
       Martin Glinz, University of Zurich\\
 901
       Norbert Gronau, University of Potsdam\\
 902
       Wilhelm Hasselbring, University of Kiel\\
 903
       Brian Henderson-Sellers, University of Technology, Sydney\\
 904
       Stefan Jablonski, University of Bayreuth\\
       Manfred Jeusfeld, Tilburg University\\
 906
       Reinhard Jung, University of St.\,Gallen\\
 907
       Dimitris Karagiannis, University of Vienna\\
 908
       John Krogstie, University of Trondheim\\
 909
       Thomas K\"uhne, Victoria University of Wellington\\
 910
 911
       Frank Leymann, University of Stuttgart\\
 912
       Stephen W. Liddle, Brigham Young University\\
       Peter Loos, Johannes Gutenberg-University of Mainz\\
 913
       Oscar Pastor L\'opez, Universidad Polit\`ecnica de Val\`encia\\
 915
       Heinrich C. Mayr, University of Klagenfurt\\
       Jan Mendling, Vienna University of Economics and Business\\
 916
       Markus N\"uttgens, University of Hamburg\\
 917
       Andreas Oberweis, University of Karlsruhe\\
 918
       Erich Ortner, Darmstadt University of Technology\\
 919
       Erik Proper, Radboud University Nijmegen\\
 920
 921
       Michael Rebstock, University of Applied Sciences Darmstadt\\
       Stefanie Rinderle-Ma, University of Vienna\\
 922
       Michael Rosemann, Queensland University of Technology\\
 923
       Matti Rossi, Aalto University\\
 924
       Elmar J. Sinz, University of Bamberg\\
 925
       Friedrich Steimann, University of Hagen\\
 926
       Stefan Strecker, University of Hagen\\
 927
       Bernhard Thalheim, University of Kiel\\
 928
       Oliver Thomas, University of Osnabr\"uck\\
 929
       Juha-Pekka Tolvanen, University of Jyv\"askyl\"a\\
 930
       Klaus Turowski, University of Augsburg\\
 931
       Gottfried Vossen, University of M\"unster\\
 932
      Mathias Weske, University of Potsdam\\
 933
       Robert Winter, University of St.\,Gallen\\
 934
       Heinz Z\"ullighoven, University of Hamburg}%
 935
Guidelines for Authors.
 936 \newcommandtwoopt{\guidelines}[2]%
     [\@guidelinesname][\@guidelinesbody]{%
 937
      \onecolumn
 938
      \edit@setup{#1}%
 939
 940
      \l@editorialcontent
       \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
```

\guidelines

\ignorespaces

942

943

#2

\guidelinesname

\guidelinesbody

43

```
\onecolumn\ignorespacesafterend}%
945
   \def\guidelinesname#1{%
     \@bsphack\def\@guidelinesname{#1}\@esphack}%
946
   \verb|\long\def\guidelinesbody#1{%}|
947
     \@bsphack\def\@guidelinesbody{#1}\@esphack}%
948
   \guidelinesname{Guidelines for Authors}%
   \guidelinesbody{%
     The journal serves to publish results of innovative research on all
951
     facets of creating and analysing enterprise models and information
952
     systems architectures. For research papers, it is required to
953
     satisfy academic standards in terms of originality, level of
954
     abstraction and justification of results. Experience reports serve
955
     to describe and analyse success stories as well as practical
956
     obstacles and resulting research challenges. Topics covered by the
957
     journal include, but are not restricted to the following subjects:
958
     \begin{itemize}
959
       \item Languages and Methods for Enterprise Modelling
960
              Reusable Domain Models (Reference Models)
961
       \item Analysis and Design Patterns
962
       \item Modelling of Business Processes and Workflows
       \item Process-Oriented System Architectures
964
       \item Component-Oriented System Architectures
965
       \item Conceptual Modelling for Component-Oriented Design
966
       \item Ontologies for Enterprise Modelling
967
       \item Modelling for Enterprise Application Integration
968
       \item Modelling for Data Warehouses
969
970
       \item Modelling to support Knowledge Management
       \item Model-Driven Development
971
       \item Aspect-Oriented Design
972
973
       \item Agile Methods for Enterprise Modelling
     \end{itemize}
974
     Authors are asked for electronic submissions, which have to be sent
975
     to the editor in chief as e-mail attachment. In case of multiple
976
     authors, it is required to name one author who acts as contact
977
     person. The submission should include a cover page with the paper's
978
979
     title and the names, affiliations and e-mail addresses of all
     authors. The first page of the paper starts with the title and does
980
     not carry the authors' names. A manuscript must be either in MS
981
     Word or PDF format. It should not exceed 5.000 words -- this
982
     includes an abstract of around 150 words.
983
984
     Submitted papers will be reviewed within no more than two months.
985
     The review process is double blind. Authors who submit a manuscript
986
     guarantee that it has not been published elsewhere, nor is intended
987
     to be published elsewhere. Papers that were accepted for
     publication must be written according to the style defined for the
989
     journal. A comprehensive description as well as a corresponding
990
```

Word template is provided on the web portal of the GI-SIG-MobIS

991

#### 19.9.7 Making the title

\maketitle This takes a couple of prerequisites, then looks if we are in one- or twocolumn mode and finally outputs the information accordingly.

```
993 \def\maketitle{%
       \begingroup
       \let\footnoterule\relax
995
       \let\footnote\thanks
996
       \let\thefootnote\relax
997
       \def\@makefnmark{\textsuperscript{\@thefnmark}}%
998
       \ifnum\col@number=\@ne
999
           \@maketitle
1000
       \else
1001
           \twocolumn[\@maketitle]%
1002
1003
       \fi
       \global\@topnum\z@
1004
       \@thanks
1005
      \endgroup
1006
      \setcounter{footnote}{0}%
1007
1008 }%
```

\@maketitle This assembles and outputs the article title.

```
1009 \def\@maketitle{%
      \bgroup
1010
1011
       \normalfont
1012
       \pretolerance=9999
      \parskip\z@
1014
      \parindent\z@
        \if!\@title!
1015
        \else
1016
         {\raggedright
1017
             \titlefont\ignorespaces
1018
             \strut\@title\strut\par}%
1019
1020
        \vskip2mm\relax
1021
      \if!\@subtitle!
1022
      \vskip5mm\relax
1023
      \else
1024
         {\makebox[\textwidth][r]{%
1025
           \begin{minipage}{\textwidth-15mm}
1026
               \raggedright
1027
1028
               \subtitlefont\ignorespaces
               \strut\@subtitle\strut
             \end{minipage}}%
1030
             \par}%
1031
        \vskip5mm\relax
1032
```

```
\fi
1033
      \if!\@authors!
1034
      \else
1035
      {\raggedright
1036
       \authorfont\ignorespaces
1037
       \strut\@authors
1038
       \ifx\@email\@empty
1039
            \ClassError{emisa}{There has to be one corresponding author!}{Please use \string\author*
1040
1041
       \else
           \ignorespaces\makebox[0pt][1]{\footnote{*~Corresponding author.\newline E-mail.\ \url{\@email.}
1042
1043
       \ifx\@acknowledgements\@empty
1044
       \else
1045
           \ignorespaces\makebox[0pt][1]{\footnote{\@acknowledgements}}%
1046
1047
       \fi%
1048
       \strut\par}%
      \vskip2mm\relax
1049
1050
      \fi
1051
      \if!\@addresses@list!
      \else
1052
        {\raggedright
1053
1054
         \footnotesize\ignorespaces
          \strut\@addresses@list\strut\par}%
1055
        \vskip8mm\relax
1056
1057
      \fi
      \if!\@authornote!
1058
      \else
1059
1060
        \let\thefootnote\relax
        \ignorespaces\makebox[0pt][1]{\footnote{Note: \@authornote}}%
1061
      \fi
1062
      \if!\@abstract!
1063
      \else
1064
       {\abstractfont\ignorespaces
1065
        \strut\textup{Abstract.\ }\@abstract\strut\par}%
        \vskip5mm\relax
1067
      \fi
1068
      \if!\@keywords!
1069
        \vskip3mm\relax
1070
      \else
1071
       {\raggedright
1072
        \ignorespaces
1073
        \strut Keywords.\ \@keywords\strut\par}
1074
1075
        \vskip3mm\relax
      \fi
1076
      \if!\@articleinfo@name!
1077
        \if!\@articleinfo@rdate!
1078
           \if!\@articleinfo@adate!
1079
             \vskip\baselineskip\relax
1080
           \fi
1081
```

```
\fi
1082
      \else
1083
        {\raggedright
1084
         \small
1085
         \ignorespaces
1086
         \strut Communicated by\ \@articleinfo@name.%
1087
         \if!\@articleinfo@rdate!%
1088
1089
            \space Received\ \@articleinfo@rdate.%
1091
         \fi%
         \if!\@articleinfo@adate!%
1092
         \else
1093
            \space Accepted\ %
1094
            \if!\@articleinfo@rounds!%
1095
            \else%
1096
1097
              \ifnum\@articleinfo@rounds=1
                  after \@articleinfo@rounds{} revision\space%
1098
              \else
1100
                  after \@articleinfo@rounds{} revisions\space%
              \fi%
1101
            \fi%
1102
            on \@articleinfo@adate.
1103
         \fi%
1104
         \strut\par}
1105
1106
         \vskip5mm\relax
1107
      \fi
1108
       \egroup
1109 }
```

#### 19.9.8 Sectioning

\@sect This internal macro facilitates the representation of unstarred sectioning commands using \@startsection.

# **Syntax:**

Here is the meaning of all these parameters:

(*name*) The name of the current sectioning level, e.g., «subsection».

 $\langle level \rangle$  The level number, describing the hierarchical depth of the current sectioning level named in – e.g., chapter = 1, section = 2, etc. This is used namely in the tabel of contents.

(*indent*) The indentation of the heading, relative to the left margin. Positive values shift the heading to the right («inward»), negative values to the left («outward»).

**(beforeskip)** The absolute value represents the space to leave above the heading. If the value is negative, the first paragraph indent following the heading is suppressed.

- (afterskip) If positive, then the section heading is typeset on its own line and the value determines the amount of vertical space to leave below the heading. If negative, then the section heading is typeset run-in and the absolute value determines the amount of horizontal space to leave between the heading and the following text.
- $\langle style \rangle$  Commands to set the output style. Since he June 1996 release of Lage X  $2_{\varepsilon}$  the *last* command in this argument may be a command such as \MakeUppercase or \fbox that takes an argument. The section heading will be supplied as the argument to this command. So setting this to, say,  $\langle bfseries MakeUppercase \rangle$  would produce bold, uppercase headings.

 $\langle toc\text{-heading} \rangle$  The optional string to be output in the table of contents (toc). If not given, the value from  $\langle heading \rangle$  is used.

(*heading*) The heading text to be output in the text body.

These parameters are used also in more high-level sectioning macros upto the familiar user level commands defined below.

```
1110 \def\@sect#1#2#3#4#5#6[#7]#8{%
1111 \ifnum #2>\c@secnumdepth
1112 \let\@svsec\@empty
1113 \else
1114 \refstepcounter{#1}%
```

Since \@seccntformat might end with an improper \hskip which is scanning forward for plus or minus we end the definition of \@svsec with \relax as a precaution.

```
1115 \protected@edef\@svsec{\@seccntformat{#1}}%
1116 \fi
1117 \@tempskipa #5\relax
1118 \ifdim \@tempskipa>\z@
```

If afterskip is positive, then its value denotes the amount of vertical skip to leave below the heading:

```
\begingroup
1119
           #6{\noindent%
1120
1121
              \@hangfrom{\hskip #3\relax\@svsec}%
               \raggedright
1122
               \interlinepenalty\@M
1123
1124
               \strut#8\strut
               \@@par}%
1125
1126
        \endgroup
1127
        \csname #1mark\endcsname{#7}%
1128
         \addcontentsline{toc}{#1}{%
           \ifnum #2>\c@secnumdepth \else
1129
             \protect\numberline{\csname the#1\endcsname}%
1130
           \fi
1131
           #7}%
1132
      \else
```

If afterskip is negative, the its absolute value indicates the amount of horizontal skip to leave to the right of the run-in heading.

```
1134 \def\@svsechd{%

1135 #6{\hskip #3\relax
```

```
1136
           \@svsec #8}%
1137
           \csname #1mark\endcsname{#7}%
           \addcontentsline{toc}{#1}{%
1138
             \ifnum #2>\c@secnumdepth \else
1139
               \protect\numberline{\csname the#1\endcsname}%
1140
             \fi
1141
             #7}}%
1142
      \fi
1143
1144
      \@xsect{#5}}
```

\@ssect The mechanism is very similar for *starred* sectioning commands, but there are few parameters.

#### **Syntax:**

```
\ensuremath{\mbox{@ssect}\{\langle \#1: indent\rangle\}\{\langle \#2: beforeskip\rangle\}\{\langle \#3: afterskip\rangle\}}
  \{\langle #4: style \rangle\} \{\langle #5: heading \rangle\}
See also the list on p. 47.
1145 \def\@ssect#1#2#3#4#5{%
1146
        \@tempskipa #3\relax
        \ifdim \@tempskipa>\z@
1147
           \begingroup
1148
1149
             #4{\noindent%
1150
                \hskip #1\relax
                \noindent%
1151
                \parbox[t]{\linewidth}{%
1152
                   \raggedright\interlinepenalty\@M#5\strut}\@@par}%
1153
           \endgroup
1154
        \else
1155
           \def\@svsechd{#4{\hskip #1\relax #5}}%
1156
        \fi
1157
1158
        \@xsect{#3}}
This formats the counters (including any whitespace) of sectioning headers.
     \def\@seccntformat#1{%
1159
        \csname the#1\endcsname%
1160
        \relax\ \ }%
```

\section These are the sectioning commands, all being built on top of \@startsection.

#### **Syntax:**

\@seccntformat

See also the list on p. 47.

All the user level sectioning commands are defined using \@startsection.

Normally the corresponding section level counter is incremented and printed out; the exact output is determined by the definition of the corresponding \the... macro. Additionally, the command uses the counter secnumdepth to determine the highest section level to be numbered at all. If an asterisk (\*)

follows the command, then the corresponding section level counter is *not* used and *no* [ $\langle altheading \rangle$ ] argument is allowed.

```
1162 \def\section{\@startsection{section}%
                           \{1\}\{\z@\}\%
                    1163
                           {-1\baselineskip plus -2mm minus -2mm}%
                    1164
                           {.5\baselineskip plus .25\baselineskip minus .125\baselineskip}%
                    1165
                           {\sec@font}}%
                    1166
     \subsection
                    1167 \def\subsection{\@startsection{subsection}%
                    1168
                           {2}{\z@}%
                           {-3mm plus -2mm minus -1.5mm}%
                    1169
                           {.25\baselineskip plus .125\baselineskip minus .125\baselineskip}%
                           {\sec@font}}%
                    1171
  \subsubsection
                    1172 \def\subsubsection{\@startsection{subsubsection}%
                    1173
                           {3}{\z@}%
                           {-3mm plus -2mm minus -1mm}%
                    1174
                    1175
                           {1sp}%
                           {\sec@font}}%
                    1176
      \paragraph
                    1177 \def\paragraph{\@startsection{paragraph}%
                           {4}{\z@}%
                    1178
                           \{-1.5mm plus -1mm minus -0.75mm\}\%
                    1179
                    1180
                           {1sp}%
                    1181
                           {\para@font}}%
   \subparagraph
                    1182 \def\subparagraph{\@startsection{subparagraph}%
                    1183
                           {5}{\z@}%
                           \{-1.5mm\}\%
                    1184
                    1185
                           {-1em}%
                           {\para@font}}%
                    1186
                   19.9.9 The table of contents
\tableofcontents This typesets the table of contents (ToC). First the page style is set and the title line is typeset, ...
                    1187 \def\tableofcontents{%
                    1188
                           \onecolumn
                           \pagestyle{emisaeditorial}%
                    1189
                           \footruleon
                    1190
                           \title{Table of Contents}%
                    1191
                           \null
                    1192
                          \vskip10mm
                    1193
                           \maketitle
                    1194
```

```
1195
                              \vskip15mm
                       1196
                              \bgroup
                       ... then, after some more adjustments, the entries are read from \( jobname \). toc using \( @starttoc{toc} \)
                       and output.
                                \parindent\z@
                       1197
                                \parskip\z@
                       1198
                                \@starttoc{toc}%
                       1199
                       1200
                              \egroup
                              \onecolumn
                       1201
                              }
                       1202
         \l@article
                       These two routines output content lines to the ToC.
\l@editorialcontent
                       1203 \newcommand*\l@article{%
                       1204
                              \if!\@subtitle!
                                \addtocentry{\@tocauthor}{\thepage}{\@toctitle}%
                       1205
                       1206
                                \addtocentry{\@tocauthor}{\thepage}{\@toctitle\ --\ \@tocsubtitle}%
                       1207
                       1208
                              \fi}%
                       1209 \newcommand*\l@editorialcontent{%
                              \addtocentry{\@toctitle}{\thepage}{}}%
                       1210
                       \addtocentry adds an entry using the typical EMISAJ layout to the contents listing of choice (default:
       \addtocentry
                       ToC).
                       1211 \newcommand*\addtocentry[4][toc]{%
                              \addtocontents{#1}{\string\emisa@tocentry{#2}{#3}{#4}}}%
                       1212
    \emisa@tocentry
                       \emisa@tocentry typesets that entry.
                       1213 \newcommand{\emisa@tocentry}[3]{%
                              \makebox[\textwidth][1]{%
                       1214
                                \parbox[t]{72.5mm-\@pnumwidth}{\raggedright\textbf{#1}}%
                       1215
                                \makebox[\@pnumwidth][r]{\textbf{#2}}%
                       1216
                                \hfill
                       1217
                       1218
                                \parbox[t]{85mm}{\raggedright#3}}%
                              \vspace{3mm}}%
                       1219
                       The output of ToC entries of level -1 (\part) and above is suppressed.
                       1220 \setcounter{tocdepth}{-2}
                       19.9.10 A few abbreviations
                      Macros for a couple of abbreviations used quite frequently.
                 \ie
                 \eg
                       1221 \newcommand*{\emisa@abbrv}[1]{#1\@\xspace}
                 \cf
                       1222 \newcommand*{\emisaabbrv}[2]{\gdef#1{\emisa@abbrv{#2}}}
               \etal
                       1223 \newcommand*{\emisa@initialism}[1]{\textsc{#1}\xspace}
       \emisa@abbrv
                       1224 \newcommand*{\emisainitialism}[2]{\gdef#1{\emisa@initialism{#2}}}
                       1225 \newcommand*{\ie}{\emisa@abbrv{i.\,e.}}
        \emisaabbrv
  \emisa@initialism
   \emisainitialism
                                                                     51
                \OMG
                \BPM
               \BPMN
```

\UML

```
1226 \newcommand*{\eg}{\emisa@abbrv{e.\,g.}}
1227 \newcommand*{\cf}{\emisa@abbrv{cf.}}
1228 \newcommand*{\etal}{\emisa@abbrv{et~al.}}
1229 \newcommand*{\OMG}{\emisa@initialism{omg}}
1230 \newcommand*{\BPM}{\emisa@initialism{bpm}}
1231 \newcommand*{\BPMN}{\emisa@initialism{bpmn}}
1232 \newcommand*{\UML}{\emisa@initialism{uml}}
```

#### 19.9.11 Other macros defined by EMISAJ

# 19.10 Bibliographies

The infrastructure for that is already present in L<sup>A</sup>T<sub>E</sub>X [18, ltbibl.dtx] so we have to tinker with just a couple of things.

\bibliography

bibliatex defines this macro in a way that it prescribes the bibliography data base(s) globally for the whole of the document. As we need a means to use different bibliography data bases with different articles, we redefine \bibliography such that it (1) works globally (biblatex style), when used in the preamble; (2) works locally in the document body (as defined here); and (3) appends locally to any globally given bibliography data base(s).

Point 1 is met simply by postponing the redefinition until \begin{document}. That way we have the unchanged behaviour in the preamble and the new one after that.

Points 2 and 3 lead to redefining this macro the same way as it was (in principle; see the original definition in biblatex.sty) but limited to a local scope.

```
1235 \def\@tempa#1\do\addbibresource#2\nil{%
        \ifx\relax#2\relax
1236
         \else
1237
         \def\@tempa##1\do\addbibresource##2\nil{\def\@preamblecmds{##1##2}}%
1238
1239
         \expandafter\@tempa\@preamblecmds\nil
1240
1241 }
    \verb|\expandafter@tempa@preamblecmds| do \verb|\addbibresource| nil|
    \AfterEndPreamble{%
       \DeclareRobustCommand{\bibliography}[1]{%
1244
           \addbibresource{#1}}%
1245
1246 }%
1247 \renewcommand{\fps@figure}{htbp}
1248 \renewcommand{\fps@table}{htbp}
1249 \tolerance 1414
1250 \hbadness 1414
```

```
1251 \emergencystretch 1.5em
1252 \hfuzz 0.3pt
1253 \widowpenalty=10000
1254 \displaywidowpenalty=10000
1255 \clubpenalty=5000
1256 \interfootnotelinepenalty=9999
1257 \brokenpenalty=2000
1258 \vfuzz \hfuzz
```

Here, the generation of the main class module is paused by the first tag (there are more pieces below); instead, generating a few biblatex-related code files starts with the second tag.

```
1259 \langle /class \rangle
1260 \langle *biblatex \rangle
```

#### 19.10.1 The EMISAJ bibliography style

A bibliatex *bibliography style* is a set of macros used to output the entries in the bibliography. Bibliography styles are defined in files with the suffix bbx. The selected one is loaded at the end of the biblatex package.

Here we produce the EMISAJ bibliography style by the not so very surprising name emisa.bbx. This file will be generated on installation from the following code lines between the <\*bbx> and </bbx> meta-tags.

```
1261 (*bbx)
```

. . .

We start by declaring the file name and date.

```
1262 \ProvidesFile{emisa.bbx}[2016/07/18 2.1.1 EMISA bibliography style]
```

The EMISAJ bibliography style is built on top of the standard style  $\verb"authoryear.bbx"$  being loaded here

```
1263 \RequireBibliographyStyle{authoryear}
```

... to be expanded and modified in the following.

\bibitemlabel The

The macro \bibitemlabel represents the formatting of the \bibitem labels.

```
1264 \newcommand*{\bibitemlabel}[1]{%
1265 \normalfont #1}
```

thebibliography

The implementation of the thebibliography environment typically makes use of the generic list environment. First a few length registers needed internally are adjusted. Note the infix notation used in some declarations facilitated by the calc package.

```
1266 \defbibenvironment{bibliography}
1267 {\list{}%
1268     {\setlength{\labelwidth}{\z@}%
1269     \setlength{\leftmargin}{\z@}%
1270     \setlength{\itemindent}{-\leftmargin}%
1271     \setlength{\itemsep}{.5\baselineskip\@plus.2\baselineskip\@minus.2\baselineskip}%
1272     \setlength{\parsep}{\bibparsep}%
```

In the bibliography listings we want the name lists not to be abbreviated. Well, a name list containing more than 999 names *will* be abbreviated nevertheless; but then, having a name list *this* long might be a problem in itsself.

```
1273 }%
1274 \let\makelabel\bibitemlabel
```

Adjusting short lines in small paragraphs can be rather hard, so some tolerance is added here.

```
1275 \tolerance 9999
1276 \emergencystretch 3em
1277 \hfuzz .5\p@
1278 \vfuzz\hfuzz
```

This is setting the normal (non-infinite) value of \clubpenalty for the whole of this environment, so we must reset its stored value also.

```
1279 \clubpenalty 4000
1280 \@clubpenalty\clubpenalty
1281 \widowpenalty 4000
```

This causes a «.» (period) not to produce an end-of-sentence space.

```
1282 \sfcode`\.\@m
```

Inside the bibliography we want no «and» in author lists.

```
1283     \renewcommand*{\finalnamedelim}{\addcomma\space}%
1284     }%
1285     {%
```

An empty thebibliography environment will cause a warning.

```
1286 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1287 \endlist}
1288 {\item}
```

**Formatting commands: punctuation and spacing, blocks and units** The following code is taken from biblatex.def and modified at several places (see comments). These are some basic and/or generic macros and might be superseded afterwards by definitions taken from standard.cbx or authoryear.cbx.

The major segments of a bibliography entry are ,Äòblocks' and ,Äòunits'. A block is the larger segment of the two, a unit is shorter or at most equal in length. For example, the values of fields such as title or note usually form a unit which is separated from subsequent data by a period or a comma. A block may comprise several fields which are treated as separate units, for example publisher, location, and year. An entry is segmented by inserting \newblock and \newunit commands at suitable places and \finentry at the very end. The actual printed output of these is defined in the corresponding \...punct macros.

The following commands add punctuation marks but automatically prevent doubling and remove preceding whitespace. Note that the behavior described below is the package default which is adjustable using \DeclarePunctuationPairs. Just the commands used in EMISAJ are discussed here.

**\addperiod** adds a period unless it is preceded by an abbreviation dot or any other punctuation mark. This command may also be used to turn a previously inserted abbreviation dot into a period, for example at the end of a sentence.

**\addcomma** adds a comma unless it is preceded by another comma, a semicolon, a colon, or a period.

\addcolon adds a colon unless it is preceded by a comma, a semicolon, another colon, or a period.

**\isdot** turns a previously inserted literal period into an abbreviation dot. In contrast to \adddot, nothing is inserted if this command is not preceded by a period.

The following macros insert space.

**\addspace** adds a breakable interword space.

\addhighpenspace adds a space penalized by the value of the highnamepenalty counter which holds a penalty affecting line-breaking in names; please refer to the biblatex manual for explanation. The counter is initialized to \hyphenpenalty at load-time. Higher values lower the number of linebreaks and vice versa. The traditional BibTeXbehavior (no linebreaks at highnamepenalty breakpoints) is reached by setting it to ,Äòinfinite' (> 10 000).

**\addlowpenspace** adds a space penalized by the value of the lownamepenalty counter, similar to highnamepenalty. The counter is initialized to 0.5 \hyphenpenalty at load-time.

\newunitpunct

The separator inserted between "'units" in the sense explained above. Here, the definition is just a space.

1289 \renewcommand\*{\newunitpunct}{\space}

\finentrypunct

This inserts the punctuation printed at the very end of every bibliography entry. Here it is simply nothing.

1290 \renewcommand\*{\finentrypunct}{\relax}

\bibsetup is a generic hook controlling the (low-level) layout of the bibliography and the list of shorthands. The default definition should work fine in most cases.

```
1291 \renewcommand*{\bibsetup}{%
1292 \interlinepenalty=5000\relax
1293 \widowpenalty=10000\relax
1294 \clubpenalty=10000\relax
1295 \biburlsetup
1296 \flushbottom
1297 \frenchspacing
1298 \sloppy}
```

The penalties above are not specific to biblatex but low-level TeX features.

- ▶ \interlinepenalty is the penalty assigned to page breaks within a paragraph (i. e., in this case, a bibliography entry);
- ▷ \clubpenalty is an additional penalty assigned to page breaks after the first line of a paragraph;
- ▷ \widowpenalty is an additional penalty assigned to page breaks before the last line of a paragraph.

Note that the value 10000 means «infinite» as far as TeX is concerned. Setting some penalty to 10000 will unconditionally suppress the respective breakpoint.

The net effect of the above settings is as follows. Breaking a bibliography entry across pages is discouraged, but not suppressed altogether. If a bibliography entry spans less than four lines, TeX will always keep it

on one page. If it spans four or more lines, it may be broken across pages, provided that there are at least two lines on the page before and after the break.

These penalties should normally be used in conjunction with \raggedbottom. If you don't like that and remove \raggedbottom from the definition of \bibsetup, make sure to provide some stretchability between bibliography entries by setting \bibitemsep to a suitable value, e.g.:

```
\setlength{\bibitemsep}{0.5\baselineskip plus 0.5\baselineskip}
```

\biburlsetup This is some local setup in order to use \url properly.

To ease the job of folding long URLs into narrow columns the following code allows linebreaks after numbers as a last resort. The macro also allows breaks after hyphens and adjusts \Urlmuskip to add some stretchability to URL strings.

```
1299 \renewcommand*{\biburlsetup}{%
      \Urlmuskip=0mu plus 2mu\relax
1300
      \mathchardef\UrlBreakPenalty=200\relax
      \mathchardef\UrlBigBreakPenalty=100\relax
1302
1303
      \mathchardef\UrlEmergencyPenalty=9000\relax
      \appto\UrlSpecials{%
1304
       \do\0{\mathchar`\0\penalty\UrlEmergencyPenalty}%
1305
       \do\1{\mathchar`\1\penalty\UrlEmergencyPenalty}%
1306
       \do\2{\mathchar`\2\penalty\UrlEmergencyPenalty}%
1307
1308
       \do\3{\mathchar`\3\penalty\UrlEmergencyPenalty}%
       \do\4{\mathchar`\4\penalty\UrlEmergencyPenalty}%
1309
       \do\5{\mathchar`\5\penalty\UrlEmergencyPenalty}%
1310
1311
       \do\6{\mathchar`\6\penalty\UrlEmergencyPenalty}%
       \do\7{\mathchar`\7\penalty\UrlEmergencyPenalty}%
1312
       1313
       \do\9{\mathchar`\9\penalty\UrlEmergencyPenalty}}%
1314
      \def\UrlBreaks{%
1315
1316
       1317
       \do\,\do\'\do\''\do\''\do\''\
      \def\UrlBigBreaks{\do\:\do\-}%
1318
URLs are typeset in sans-serif script.
      \def\UrlFont{\sffamily}%
1319
1320
```

For further details please see the documentation of the url package as well as the comments inside url.sty.

**Miscellaneous field formatting directives** This subsection introduces biblatex commands and utility macros used to define the formatting directives required by the data commands.

The following list shows a few frequently used ones; those more rarely used are described below.

- **\DeclareFieldFormat**[ $\langle entry type \rangle$ ]{ $\langle format \rangle$ }{ $\langle code \rangle$ } defines the formatting code given in  $\langle code \rangle$  to be executed by \printfield on processing the field  $\langle format \rangle$ . The value of the field will be passed to  $\langle code \rangle$  as its first and only argument. If an  $\langle entry type \rangle$  is specified, the format is specific to that type; otherwise it applies to all entry types defined. The name of the field currently being processed is available in \currentfield.
- \DeclareFieldAlias[ $\langle entry type \rangle$ ]{ $\langle alias \rangle$ }[ $\langle format entry type \rangle$ ]{ $\langle format \rangle$ } declares  $\langle alias \rangle$  to be an alias of the field format  $\langle format \rangle$ . If an  $\langle entry type \rangle$  is specified, the alias is specific to that type. The  $\langle format entry type \rangle$  is the entry type of the backend format. This is only required when declaring an alias of a type specific formatting directive.
- **\bibstring[\langle wrapper \rangle] {\langle key \rangle}** prints the bibliography string identified by  $\langle key \rangle$ . The string will be capitalized as required. Depending on the abbreviate package option, \bibstring prints the short or the long version of the string. If bibliography strings are nested, i.e., if \bibstring is used in another string, it will behave like \bibxstring. If the  $\langle wrapper \rangle$  argument is given, the string is passed to the  $\langle wrapper \rangle$  for formatting. This is intended for font commands such as \emph.
- **\bibcpstring[\langle wrapper \rangle]{** \langle Similar to \bibstring but the string is always capitalized.
- **\bibxstring**{ $\langle key \rangle$ } is a simplified but expandable version of \bibstring. Note that this variant does not capitalize automatically, nor does it hook into the punctuation tracker. It is intended for special cases in which strings are nested or an expanded bibliography string is required in a test.

The citetitle format is used to output the title field in citations.

```
1321 \DeclareFieldFormat{citetitle}{#1}
1322 \DeclareFieldFormat[article]{citetitle}{#1\isdot}
1323 \DeclareFieldFormat[inbook]{citetitle}{#1\isdot}
1324 \DeclareFieldFormat[incollection]{citetitle}{#1\isdot}
1325 \DeclareFieldFormat[inproceedings]{citetitle}{#1\isdot}
1326 \DeclareFieldFormat[patent]{citetitle}{#1\isdot}
1327 \DeclareFieldFormat[thesis]{citetitle}{#1\isdot}
1328 \DeclareFieldFormat[unpublished]{citetitle}{#1\isdot}
```

The following field formats are used for output in bibliographies.

```
\DeclareFieldFormat{booktitle}{#1\isdot}
    \DeclareFieldFormat{journaltitle}{#1}
1331 \DeclareFieldFormat{issuetitle}{#1}
    \DeclareFieldFormat{maintitle}{#1}
    \DeclareFieldFormat{title}{#1}
    \DeclareFieldFormat[article]{title}{#1\isdot}
    \DeclareFieldFormat[inbook]{title}{#1\isdot}
    \DeclareFieldFormat[incollection]{title}{#1\isdot}
    \DeclareFieldFormat[inproceedings]{title}{#1\isdot}
    \DeclareFieldFormat[patent]{title}{#1\isdot}
1338
    \DeclareFieldFormat[thesis]{title}{#1\isdot}
1339
    \DeclareFieldFormat[unpublished]{title}{#1\isdot}
    \DeclareFieldFormat{url}{\url{#1}}
    \DeclareFieldFormat{urldate}{\bibstring{urlseen}\addcolon\space#1}
    \DeclareFieldAlias[misc]{note}{urldate}
1344 \DeclareFieldAlias[report]{note}{urldate}
    \DeclareFieldAlias[thesis]{note}{urldate}
1346 \DeclareFieldFormat{version}{\bibcpstring{version}~#1}
```

```
1347 \DeclareFieldFormat{volume}{\bibcpstring{volume}~#1}
1348 \DeclareFieldFormat{volumes}{#1~\bibcpstring{volumes}}
```

**Formatting names and name lists** The following code morsels are taken from biblatex.def and modified.

The section employs special biblatex commands to (re)define or use macros in bibliography and citation styles.

- > \(\langle name \rangle\) may contain characters such as numbers and punctuation marks but no backslash, and
- ▶ \newbibmacro issues just a warning message if the macro is already defined, then falls back to \renewbibmacro.

 $\ensuremath{\mbox{\sc Name}} [\langle arguments \rangle] [\langle optional \rangle] \{\langle definition \rangle\}$  is similar to \newbibmacro but redefines  $\langle name \rangle$ . If the macro is undefined, \renewbibmacro issues a warning message and falls back to \newbibmacro.

**\usebibmacro**{ $\langle name \rangle$ } executes the biblatex macro  $\langle name \rangle$ , as defined with \newbibmacro. If the macro takes any arguments, they are simply appended after  $\langle name \rangle$ . \usebibmacro is robust.

This declares the output format of name lists to be used by \printnames.

Please note: We have to check the biblatex version, since there has been an incompatible change for version 3.3 from 2016/03/03

```
1349 \@ifpackagelater{biblatex}{2016/03/03}%
```

Now for the latest versions

```
1350 {%
1351
       \DeclareNameFormat{emisa:names}{%
           \nameparts{#1}%
1352
           \usebibmacro{name:family-giveninit}%
1353
              {\namepartfamily}%
1354
              {\namepartgiveni}%
1355
              {\namepartprefix}%
1356
1357
              {\namepartsuffix}%
           \usebibmacro{name:andothers}}%
1358
1359 }%
```

and now for the older versions All the formatting directives for name lists get the following «arguments»:

```
#1 = last name

#2 = last name (initials)

#3 = first name

#4 = first name (initials)

#5 = name prefix, a.k.a. 'von part'

#6 = name prefix (initials)

#7 = name affix, a.k.a. 'junior part'

#8 = name affix (initials)
```

```
1360 {%
1361
       \DeclareNameFormat{emisa:names}{%
       \usebibmacro{name:last-firstinit}{#1}{#4}{#5}{#7}%
1362
       \usebibmacro{name:andothers}}%
1363
1364 }%
This bibmacro formats the names of authors, editors or translators.
Again we check for the biblatex version. This could be neglected for this macro. However, it is clearer
and maybe better for future development.
1365 \@ifpackagelater{biblatex}{2016/03/03}%
Now for the latest versions
1366 {%
1367
     \newbibmacro*{name:family-giveninit}[4]{%
         \usebibmacro{name:delim}{#2#3#1}%
1368
         \usebibmacro{name:hook}{#2#3#1}%
1369
Formatting: name prefix ('von part'), ...
         \ifdefvoid{#3}{}{%
1370
1371
            \mkbibnameprefix{#3}%\isdot
            \ifprefchar% replaces \ifpunctmark{'}%
1372
1373
1374
            {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
... last name ...
1375
          \mkbibnamefamily{#1}\addhighpenspace%
... name affix ('junior part'), ...
1376
        ... and first name (initials).
        \ifdefvoid{#2}{}{\mkbibnamegiven{#2}\isdot}%
1378
        }%
1379 }%
and now for the older versions
1380 {%
       \newbibmacro*{name:last-firstinit}[4]{%
1381
       \usebibmacro{name:delim}{#2#3#1}%
       \usebibmacro{name:hook}{#2#3#1}%
1383
Formatting: name prefix ('von part'), ...
       \ifblank{#3}{}{%
1384
         \mkbibnameprefix{#3}%\isdot
1385
         \ifpunctmark{'}%
1386
1387
           {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
1388
... last name ...
```

me:last-firstinit

bibmacro

1389

\mkbibnamelast{#1}\addhighpenspace%

```
... name affix ('junior part'), ...
                               ... and first name (initials).
                               \ifblank{#2}{}{\mkbibnamefirst{#2}\isdot}%
                         1392 }%
                         1393 }%
          in: bibmacro
                        This outputs the «in:» tag, as in bibliography entries for proceedings, collections, edited books and so on.
                         1394 \renewbibmacro*{in:}{%
                               \printtext{%
                         1395
                         1396
                                 \bibcpstring{in}%
                                 \intitlepunct}}
                         1397
                        Generic bibliography macros  
In this subsection the generic bibmacros outputting the typical name
                        fields in bibliographies are customised.
       author bibmacro
                         1398 \renewbibmacro*{author}{%
                               \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
                         1399
                                 {\printnames{author}%
                         1400
                                  \iffieldundef{authortype}
                         1401
                         1402
                                    {}
                                    {\setunit{\addspace}%
                         1403
                         1404 \usebibmacro{authorstrg}}}
                         1405
                                 {}}
       editor bibmacro
                         1406 \renewbibmacro*{editor}{%
                               \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                         1407
                                 {\printnames{editor}%
                         1408
                                  \setunit{\addspace}%
                                  \usebibmacro{editorstrg}%
                         1410
                                  \clearname{editor}}
                         1411
                         1412
                                 {}}
editor+others bibmacro
                         1413 \renewbibmacro*{editor+others}{%
                               \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                         1414
                                 {\printnames[emisa:names]{editor}%
                         1415
                                  \setunit{\addspace}%
                         1416
                                  \usebibmacro{editor+othersstrg}%
                         1417
                                 \clearname{editor}}
                         1418
                         1419
                                 {}}
```

```
translator bibmacro
```

```
1420 \renewbibmacro*{translator}{%
                                   \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                             1421
                                      {\printnames{translator}%
                             1422
                                      \setunit{\addspace}%
                             1423
                                      \usebibmacro{translatorstrg}%
                             1424
                                      \clearname{translator}}
                             1425
                             1426
                                     {}}
translator+others bibmacro
                             1427 \renewbibmacro*{translator+others}{%
                                   \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                             1428
                                      {\printnames{translator}%
                             1429
                                      \setunit{\addspace}%
                             1430
                             1431
                                      \usebibmacro{translator+othersstrg}%
                                      \clearname{translator}}
                             1432
                             1433
                                     {}}
editor+othersstrg bibmacro
                             1434 \renewbibmacro*{editor+othersstrg}{%
                                   \iffieldundef{editortype}
                             1435
                             1436
                                      {\ifthenelse{\value{editor}>1\OR\ifandothers{editor}}}
                                         {\def\abx@tempa{editors}}
                             1437
                             1438
                                         {\def\abx@tempa{editor}}}
                             1439
                                     {\ifthenelse{\value{editor}>1\OR\ifandothers{editor}}}
                                         {\edef\abx@tempa{\thefield{editortype}s}}
                             1440
                                         {\edef\abx@tempa{\thefield{editortype}}}}%
                             1441
                             1442
                                   \let\abx@tempb=\empty
                                   \ifnamesequal{editor}{translator}
                             1443
                                     {\appto\abx@tempa{tr}%
                             1444
                             1445
                                      \appto\abx@tempb{\clearname{translator}}}
                             1446
                                   \ifnamesequal{editor}{commentator}
                             1447
                             1448
                                     {\appto\abx@tempa{co}%
                                      \appto\abx@tempb{\clearname{commentator}}}
                             1449
                                     {\ifnamesequal{editor}{annotator}
                             1450
                                         {\appto\abx@tempa{an}%
                             1451
                                 \appto\abx@tempb{\clearname{annotator}}}
                             1452
                             1453
                                   \ifnamesequal{editor}{introduction}
                             1454
                                     {\appto\abx@tempa{in}%
                             1455
                                      \appto\abx@tempb{\clearname{introduction}}}
                             1456
                                     {\ifnamesequal{editor}{foreword}
                             1457
                                         {\appto\abx@tempa{fo}%
                             1458
                                 \appto\abx@tempb{\clearname{foreword}}}
                             1459
                                         {\ifnamesequal{editor}{afterword}
                             1460
                                            {\appto\abx@tempa{af}%
                             1461
                             1462
                                             \appto\abx@tempb{\clearname{afterword}}}
```

```
1463
                                            {}}}%
                             1464
                                   \ifbibxstring{\abx@tempa}
                                      {\bibstring[\mkbibparens]{\abx@tempa}%
                             1465
                                      \abx@tempb}
                             1466
                                      {\usebibmacro{editorstrg}}}%
                             1467
emisa:url+urldate bibmacro
                             1468 \newbibmacro*{emisa:url+urldate}{%
                                   \iffieldundef{url}
                             1469
                                     {\printfield{howpublished}}
                             1470
                             1471
                                      {\printfield{url}}
                                   \setunit*{\addperiod\space}\newblock
                             1472
                                   \iffieldundef{urlyear}
                             1473
                             1474
                                      {\printfield{note}}
                                      {\printtext[urldate]{\printurldate}}}
                             1475
isa:url+type+version+urldate
                 bibmacro
                             1476 \newbibmacro*{emisa:url+type+version+urldate}{%
                                    \iffieldundef{url}%
                             1477
                                     {\printfield{url}}
                             1478
                                      {\printfield{howpublished}}%
                             1479
                                   \setunit*{\addcomma\space}\newblock
                             1480
                                    \printfield{type}%
                             1481
                                    \setunit*{\addcomma\space}\newblock
                             1482
                                    \printfield{version}%
                             1483
                                    \setunit*{\addcomma\space}\newblock
                             1484
                             1485
                                   \iffieldundef{urlyear}
                                      {\printfield{note}}
                             1486
                                      {\printtext[urldate]{\printurldate}}}
                             1487
```

This is the end of the code taken (and modified) from biblatex.def.

**Code from standard.bbx** The following code is taken from standard.bbx and modified at several places (see comments). This sections's definitions supersede those taken from standard.cbx and might in turn be superseded by the following code from authoryear.bbx.

# finentry bibmacro

```
article bibdriver

1489 \DeclareBibliographyDriver{article}{%

1490 \usebibmacro{bibindex}%

1491 \usebibmacro{begentry}%

1492 \usebibmacro{author/translator+others}%

1493 \setunit{\labelnamepunct}\newblock

1494 \usebibmacro{title}%

1495 \newunit
```

\printlist{language}%

1496

1488 \renewbibmacro\*{finentry}{}%

- 1497 \newunit\newblock
- 1498 \usebibmacro{bytranslator+others}%
- 1499 \newunit\newblock
- 1500 \printfield{version}%
- 1501 \setunit{\addperiod\space}%
- 1502 \usebibmacro{in:}%
- 1503 \usebibmacro{journal+issuetitle}%
- 1504 \newunit\newblock
- 1505 \usebibmacro{editor+others}%
- 1506 \newunit\newblock
- 1507 \usebibmacro{note+pages}%
- 1508 \newunit\newblock
- 1509 \iftoggle{bbx:isbn}
- 1510 {\printfield{issn}}
- 1511 {}%
- 1512 \newunit\newblock
- 1513 \usebibmacro{doi+eprint+url}%
- 1514 \newunit\newblock
- 1515 \usebibmacro{addendum+pubstate}%
- 1516 \newunit\newblock
- 1517 \usebibmacro{pageref}%
- 1518 \usebibmacro{finentry}}

#### book bibdriver

- 1519 \DeclareBibliographyDriver{book}{%
- 1520 \usebibmacro{bibindex}%
- 1521 \usebibmacro{begentry}%
- 1522 \usebibmacro{author/editor+others/translator+others}%
- 1523 \setunit{\labelnamepunct}\newblock
- 1524 \usebibmacro{maintitle+title}%
- 1525 \newunit
- 1526 \printlist{language}%
- 1527 \newunit\newblock
- 1528 \usebibmacro{editor+others}%
- 1529 \setunit{\addcomma\space}%
- 1530 \newblock
- 1531 \printfield{edition}%
- 1532 \setunit{\addperiod\space}%
- 1533 \newblock
- 1534 \usebibmacro{series+number}%
- 1535 \newunit
- 1536 \newblock
- 1537 \iffieldundef{maintitle}
- 1538 {\printfield{volume}%
- 1539 \printfield{part}}
- 1540 {}%
- 1541 \newunit
- 1542 \printfield{volumes}%
- 1543 \setunit{\addperiod\space}%

- 1544 \newblock
- 1545 \printfield{note}%
- 1546 \setunit{\addperiod\space}%
- 1547 \newblock
- 1548 \usebibmacro{publisher+location+date}%
- 1549 \newunit\newblock
- 1550 \usebibmacro{chapter+pages}%
- 1551 \newunit
- 1552 \printfield{pagetotal}%
- 1553 \newunit\newblock
- 1554 \iftoggle{bbx:isbn}
- 1555 {\printfield{isbn}}
- 1556 {}%
- 1557 \newunit\newblock
- 1558 \usebibmacro{doi+eprint+url}%
- 1559 \newunit\newblock
- 1560 \usebibmacro{addendum+pubstate}%
- 1561 \newunit\newblock
- 1562 \usebibmacro{pageref}%
- 1563 \usebibmacro{finentry}}

#### booklet bibdriver

- 1564 \DeclareBibliographyDriver{booklet}{%
- 1565 \usebibmacro{bibindex}%
- 1566 \usebibmacro{begentry}%
- 1567 \usebibmacro{author/editor+others/translator+others}%
- 1568 \setunit{\labelnamepunct}\newblock
- 1569 \usebibmacro{title}%
- 1570 \newunit
- 1571 \printlist{language}%
- 1572 \newunit\newblock
- 1573 \usebibmacro{editor+others}%
- 1574 \newunit\newblock
- 1575 \printfield{howpublished}%
- 1576 \newunit\newblock
- 1577 \printfield{type}%
- 1578 \newunit\newblock
- 1579 \printfield{note}%
- 1580 \newunit\newblock
- 1581 \usebibmacro{location+date}%
- 1582 \newunit\newblock
- 1583 \usebibmacro{chapter+pages}%
- 1584 \newunit
- 1585 \printfield{pagetotal}%
- 1586 \newunit\newblock
- 1587 \usebibmacro{doi+eprint+url}%
- 1588 \newunit\newblock
- 1589 \usebibmacro{addendum+pubstate}%
- 1590 \newunit\newblock

```
1591 \usebibmacro{pageref}%
1592 \usebibmacro{finentry}}
```

#### collection bibdriver

```
\DeclareBibliographyDriver{collection}{%
1593
      \usebibmacro{bibindex}%
1594
1595
      \usebibmacro{begentry}%
      \usebibmacro{editor+others}%
1596
      \setunit{\labelnamepunct}\newblock
1597
1598
      \usebibmacro{maintitle+title}%
      \newunit
1599
      \printlist{language}%
1600
      \newunit\newblock
1601
      \usebibmacro{editor+others}%
1602
      \setunit{\addcomma\space}%
1603
1604
      \newblock
      \printfield{edition}%
1605
      \setunit{\addperiod\space}%
1606
1607
      \newblock
      \usebibmacro{series+number}%
1608
1609 \newunit
1610
      \newblock
      \iffieldundef{maintitle}
1611
         {\printfield{volume}%
1612
         \printfield{part}}
1613
         {}%
1614
      \newunit
1615
1616
      \printfield{volumes}%
      \setunit{\addperiod\space}%
1617
      \newblock
1618
      \printfield{note}%
1619
      \setunit{\addperiod\space}%
1620
      \newblock
1621
      \usebibmacro{publisher+location+date}%
1622
      \newunit\newblock
1623
1624
      \usebibmacro{chapter+pages}%
1625
      \newunit
      \printfield{pagetotal}%
1626
      \newunit\newblock
1627
      \iftoggle{bbx:isbn}
1628
        {\printfield{isbn}}
1629
1630
         {}%
      \newunit\newblock
1631
      \usebibmacro{doi+eprint+url}%
1632
1633
      \newunit\newblock
      \usebibmacro{addendum+pubstate}%
1634
      \newunit\newblock
1635
      \usebibmacro{pageref}%
1636
      \usebibmacro{finentry}}
1637
```

#### inbook bibdriver

```
1638 \DeclareBibliographyDriver{inbook}{%
      \usebibmacro{bibindex}%
1639
      \usebibmacro{begentry}%
1640
      \usebibmacro{author/translator+others}%
1641
1642
      \setunit{\labelnamepunct}\newblock
      \usebibmacro{title}%
1643
      \newunit
1644
      \printlist{language}%
1645
      \newunit\newblock
1646
1647
      \usebibmacro{in:}%
      \usebibmacro{bybookauthor}%
1648
      \newunit\newblock
1649
1650
      \usebibmacro{maintitle+booktitle}%
      \newunit\newblock
1651
      \usebibmacro{editor+others}%
1652
1653
      \setunit{\addcomma\space}%
      \newblock
1654
      \printfield{edition}%
1655
1656
      \newunit
      \iffieldundef{maintitle}
1657
1658
        {\printfield{volume}%
         \printfield{part}}
1659
        {}%
1660
1661
      \newunit
      \printfield{volumes}%
1662
      \newunit\newblock
1663
      \usebibmacro{series+number}%
1664
1665
      \newunit\newblock
      \printfield{note}%
1666
1667
      \newunit\newblock
      \usebibmacro{publisher+location+date}%
1668
      \newunit\newblock
1669
      \usebibmacro{chapter+pages}%
1670
      \newunit\newblock
1671
      \iftoggle{bbx:isbn}
1672
1673
        {\printfield{isbn}}
1674
      \newunit\newblock
1675
1676
      \usebibmacro{doi+eprint+url}%
      \newunit\newblock
1677
      \usebibmacro{addendum+pubstate}%
1678
      \newunit\newblock
1679
      \usebibmacro{pageref}%
1680
1681
      \usebibmacro{finentry}}
```

# incollection bibdriver

1682 \DeclareBibliographyDriver{incollection}{%

- 1683 \usebibmacro{bibindex}%
- 1684 \usebibmacro{begentry}%
- 1685 \usebibmacro{author/translator+others}%
- 1686 \setunit{\labelnamepunct}\newblock
- 1687 \usebibmacro{title}%
- 1688 \setunit{\addcomma\space}%
- 1689 \printlist{language}%

## Period after title, if any

- 1690 \setunit{\addperiod\space}%
- 1691 \usebibmacro{in:}%
- 1692 \usebibmacro{editor+others}%
- 1693 \setunit{\addspace}%
- 1694 \newblock
- 1695 \usebibmacro{byauthor}%
- 1696 \newblock
- 1697 \usebibmacro{maintitle+booktitle}%

#### Colon after maintitle, if any

- 1698 \newblock
- 1699 \printfield{edition}%
- 1700 \setunit{\addperiod\space}%
- 1701 \newblock
- 1702 \usebibmacro{series+number}%
- 1703 \newunit
- 1704 \newblock
- 1705 \iffieldundef{maintitle}
- 1706 {\printfield{volume}%
- 1707 \printfield{part}}
- 1708 {}%
- 1709 \newunit
- 1710 \printfield{volumes}%
- 1711 \setunit{\addperiod\space}%
- 1712 \newblock
- ${\tt 1713} \quad {\tt \printfield\{note\}\%}$
- 1714 \setunit{\addperiod\space}%
- 1715 \newblock
- 1716 \usebibmacro{publisher+location+date}%
- 1717 \setunit\*{\addcomma\space}%
- 1718 \newblock
- 1719 \usebibmacro{chapter+pages}%
- 1720 \newunit\newblock
- 1721 \iftoggle{bbx:isbn}
- 1722 {\printfield{isbn}}
- 1723 {}%
- 1724 \newunit\newblock
- 1725 \usebibmacro{doi+eprint+url}%
- 1726 \newunit\newblock
- 1727 \usebibmacro{addendum+pubstate}%

- 1728 \newunit\newblock
- 1729 \usebibmacro{pageref}%
- 1730 \usebibmacro{finentry}}

#### inproceedings bibdriver

- 1731 \DeclareBibliographyDriver{inproceedings}{%
- 1732 \usebibmacro{bibindex}%
- 1733 \usebibmacro{begentry}%
- 1734 \usebibmacro{author/translator+others}%
- 1735 \setunit{\labelnamepunct}%
- 1736 \newblock
- 1737 \usebibmacro{title}%
- 1738 \setunit{\addcomma\space}%
- 1739 \printlist{language}%
- 1740 \newblock
- 1741 \usebibmacro{byauthor}%

#### Period after title, if any

- 1742 \setunit{\addperiod\space}%
- 1743 \usebibmacro{in:}%
- 1744 \usebibmacro{editor+others}%
- 1745 \setunit{\addspace}%
- 1746 \newblock
- 1747 \usebibmacro{byauthor}%
- 1748 \newblock
- 1749 \usebibmacro{maintitle+booktitle}%

# Colon after maintitle, if any

- 1750 \newblock
- 1751 \usebibmacro{event+venue+date}%
- 1752 \setunit{\addperiod\space}%
- 1753 \newblock
- 1754 \usebibmacro{series+number}%
- 1755 \newunit
- 1756 \newblock
- 1757 \iffieldundef{maintitle}
- 1758 {\printfield{volume}%
- 1759 \printfield{part}}
- 1760 {}%
- 1761 \newunit
- 1762 \printfield{volumes}%
- 1763 \setunit{\addperiod\space}%
- 1764 \newblock
- 1765 \printfield{note}%
- 1766 \setunit{\addperiod\space}%
- 1767 \newblock
- 1768 \printlist{organization}%
- 1769 \setunit{\addperiod\space}%
- 1770 \newblock

- 1771 \usebibmacro{publisher+location+date}%
- 1772 \setunit{\addcomma\space}%
- 1773 \newblock
- 1774 \usebibmacro{chapter+pages}%
- 1775 \newunit\newblock
- 1776 \iftoggle{bbx:isbn}
- 1777 {\printfield{isbn}}
- 1778 {}%
- 1779 \newunit\newblock
- 1780 \usebibmacro{doi+eprint+url}%
- 1781 \newunit\newblock
- 1782 \usebibmacro{addendum+pubstate}%
- 1783 \newunit\newblock
- 1784 \usebibmacro{pageref}%
- 1785 \usebibmacro{finentry}}

#### manual bibdriver

- 1786 \DeclareBibliographyDriver{manual}{%
- 1787 \usebibmacro{bibindex}%
- 1788 \usebibmacro{begentry}%
- 1789 \usebibmacro{author/editor}%
- 1790 \setunit{\labelnamepunct}\newblock
- 1791 \usebibmacro{title}%
- 1792 \newunit
- 1793 \printlist{language}%
- 1794 \newunit\newblock
- 1795 \usebibmacro{byeditor}%
- 1796 \setunit{\addcomma\space}%
- 1797 \newblock
- 1798 \printfield{edition}%
- 1799 \newunit\newblock
- 1800 \usebibmacro{series+number}%
- 1801 \newunit\newblock
- 1802 \printfield{type}%
- 1803 \newunit
- 1804 \printfield{version}%
- 1805 \newunit
- 1806 \printfield{note}%
- 1807 \newunit\newblock
- 1808 \printlist{organization}%
- 1809 \newunit
- 1810 \usebibmacro{publisher+location+date}%
- 1811 \newunit\newblock
- 1812 \usebibmacro{chapter+pages}%
- 1813 \newunit
- 1814 \printfield{pagetotal}%
- 1815 \newunit\newblock
- 1816 \iftoggle{bbx:isbn}
- 1817 {\printfield{isbn}}

```
1818
                           {}%
                        \newunit\newblock
                  1819
                         \usebibmacro{doi+eprint+url}%
                  1820
                         \newunit\newblock
                  1821
                        \usebibmacro{addendum+pubstate}%
                  1822
                        \newunit\newblock
                  1823
                  1824
                         \usebibmacro{pageref}%
                  1825
                         \usebibmacro{finentry}}
  misc bibdriver
                  1826 \DeclareBibliographyDriver{misc}{%
                         \usebibmacro{bibindex}%
                  1827
                        \usebibmacro{begentry}%
                  1828
                         \usebibmacro{author/editor+others/translator+others}%
                  1829
                        \setunit{\labelnamepunct}\newblock
                  1830
                  1831
                         \usebibmacro{title}%
                  1832
                        \newunit
                         \printlist{language}%
                  1833
                 Period after title, if any
                        \setunit{\addperiod\space}%
                  1834
                         \usebibmacro{emisa:url+urldate}%
                  1835
                  1836
                         \usebibmacro{finentry}}
online bibdriver
                  1837 \DeclareBibliographyDriver{online}{%
                  1838
                         \usebibmacro{bibindex}%
                  1839
                         \usebibmacro{begentry}%
                         \usebibmacro{author/editor+others/translator+others}%
                  1840
                         \setunit{\labelnamepunct}\newblock
                  1841
                        \usebibmacro{title}%
                  1842
                        \newunit
                  1843
                         \printlist{language}%
                  1844
                         \newunit\newblock
                  1845
                         \usebibmacro{editor+others}%
                  1846
                  1847
                        \newunit\newblock
                         \printfield{version}%
                        \newunit
                  1849
                         \printfield{note}%
                  1850
                         \newunit\newblock
                  1851
                         \printlist{organization}%
                  1852
                         \newunit\newblock
                  1853
                         \usebibmacro{date}%
                  1854
                         \newunit\newblock
                  1855
                  1856
                        \iftoggle{bbx:eprint}
                           {\usebibmacro{eprint}}
                  1857
                           {}%
                  1858
                         \newunit\newblock
                  1859
                         \usebibmacro{url+urldate}%
                  1860
```

```
1861
                             \newunit\newblock
                             \usebibmacro{addendum+pubstate}%
                      1862
                             \newunit\newblock
                      1863
                             \usebibmacro{pageref}%
                      1864
                             \usebibmacro{finentry}}
                      1865
    patent bibdriver
                      1866 \DeclareBibliographyDriver{patent}{%
                             \usebibmacro{bibindex}%
                      1867
                      1868
                             \usebibmacro{begentry}%
                             \usebibmacro{author}%
                      1869
                             \setunit{\labelnamepunct}\newblock
                      1870
                             \usebibmacro{title}%
                      1871
                             \newunit
                      1872
                             \printlist{language}%
                      1873
                      1874
                             \newunit\newblock
                             \printfield{type}%
                      1875
                             \setunit*{\addspace}%
                      1876
                             \printfield{number}%
                             \iflistundef{location}
                      1878
                      1879
                               {\setunit*{\addspace}%
                      1880
                                \printtext[parens]{%
                      1881
                                  \printlist[][-\value{listtotal}]{location}}}%
                      1882
                      1883
                             \newunit\newblock
                             \usebibmacro{byholder}%
                      1884
                      1885
                             \newunit\newblock
                             \printfield{note}%
                             \newunit\newblock
                      1887
                             \usebibmacro{date}%
                      1888
                             \newunit\newblock
                      1889
                             \iftoggle{bbx:url}
                      1890
                               {\usebibmacro{url+urldate}}
                      1891
                               {}%
                      1892
                             \newunit\newblock
                      1893
                      1894
                             \usebibmacro{addendum+pubstate}%
                             \newunit\newblock
                      1895
                             \usebibmacro{pageref}%
                      1896
                      1897
                             \usebibmacro{finentry}}
periodical bibdriver
                      1898 \DeclareBibliographyDriver{periodical}{%
                             \usebibmacro{bibindex}%
                      1899
                      1900
                             \usebibmacro{begentry}%
                             \usebibmacro{editor}%
                      1901
                             \setunit{\labelnamepunct}\newblock
                      1902
                             \usebibmacro{title+issuetitle}%
                             \newunit
                      1904
```

```
\printlist{language}%
1905
      \newunit\newblock
1906
      \usebibmacro{byeditor}%
1907
      \newunit\newblock
1908
      \printfield{note}%
1909
      \newunit\newblock
1910
1911
      \iftoggle{bbx:isbn}
1912
        {\printfield{issn}}
1913
      \newunit\newblock
1914
      \usebibmacro{doi+eprint+url}%
1915
      \newunit\newblock
1916
1917
      \usebibmacro{addendum+pubstate}%
      \newunit\newblock
1918
1919
      \usebibmacro{pageref}%
1920
      \usebibmacro{finentry}}
1921 \DeclareBibliographyDriver{proceedings}{%
      \usebibmacro{bibindex}%
1922
      \usebibmacro{begentry}%
1923
      \usebibmacro{editor+others}%
1924
      \setunit{\labelnamepunct}\newblock
1925
      \usebibmacro{maintitle+title}%
1926
1927
      \newunit
      \printlist{language}%
1928
1929
      \newunit\newblock
1930
      \usebibmacro{event+venue+date}%
      \newunit\newblock
1931
      \usebibmacro{editor+others}%
1932
      \setunit{\addperiod\space}%
1933
      \newblock
1934
      \usebibmacro{series+number}%
1935
      \newunit
1936
      \newblock
1937
1938
      \iffieldundef{maintitle}
1939
        {\printfield{volume}%
         \printfield{part}}
1940
        {}%
1941
      \newunit
1942
      \printfield{volumes}%
1943
      \setunit{\addperiod\space}%
1944
      \newblock
1945
      \printfield{note}%
1946
1947
      \setunit{\addperiod\space}%
```

 $\newblock$ 

\newblock

\printlist{organization}%

\setunit{\addperiod\space}%

1948

1949

1950

1951

proceedings bibdriver

```
\usebibmacro{publisher+location+date}%
1952
       \newblock
1953
       \usebibmacro{chapter+pages}%
1954
       \newunit
1955
       \printfield{pagetotal}%
1956
       \newunit\newblock
1957
1958
       \iftoggle{bbx:isbn}
1959
         {\printfield{isbn}}
1960
       \newunit\newblock
1961
       \usebibmacro{doi+eprint+url}%
1962
       \newunit\newblock
1963
       \usebibmacro{addendum+pubstate}%
1964
       \newunit\newblock
1965
1966
       \usebibmacro{pageref}%
       \usebibmacro{finentry}}
Technical reports
 author
 title
 year
 type
 number
 institution
 address
 url
 note
```

#### report bibdriver

```
1968 \DeclareBibliographyDriver{report}{%
      \usebibmacro{bibindex}%
1969
      \usebibmacro{begentry}%
1970
      \usebibmacro{author}%
1971
      \setunit{\labelnamepunct}\newblock
1972
1973
      \usebibmacro{title}%
      \setunit{\addperiod\space}%
1974
      \printfield{type}%
1975
      \newunit
1976
      \printfield{number}%
1977
      \setunit{\addperiod\space}%
1978
      \printlist{institution}%
1979
1980
      \setunit*{\addperiod\space}\newblock
      \printlist{location}%
1981
1982
      \setunit*{\addperiod\space}\newblock
      \printfield{url}%
1983
      \setunit*{\addperiod\space}\newblock
1984
      \printfield{note}%
1985
      \newunit\newblock
1986
```

```
1987 \usebibmacro{finentry}}%
```

#### 1988 \DeclareBibliographyAlias{techreport}{report}%

#### thesis bibdriver

- 1989 \DeclareBibliographyDriver{thesis}{%
- 1990 \usebibmacro{bibindex}%
- 1991 \usebibmacro{begentry}%
- 1992 \usebibmacro{author}%
- 1993 \setunit{\labelnamepunct}\newblock
- 1994 \usebibmacro{title}%
- 1995 \newunit
- 1996 \printlist{language}%

#### Period after title, if any

- 1997 \setunit{\addperiod\space}%
- 1998 \printfield{type}%
- 1999 \setunit\*{\addcomma\space}%
- 2000 \usebibmacro{institution+location+date}%
- 2001 \setunit{\addperiod\space}%
- 2002 \usebibmacro{chapter+pages}%
- 2003 \newunit
- 2004 \printfield{pagetotal}%
- 2005 \newunit\newblock
- 2006 \printfield{url}%
- 2007 \setunit\*{\addperiod\space}\newblock
- 2008 \printfield{note}%
- 2009 \newunit\newblock
- 2010 \usebibmacro{addendum+pubstate}%
- 2011 \newunit\newblock
- 2012 \usebibmacro{pageref}%
- 2013 \usebibmacro{finentry}}

#### unpublished bibdriver

- 2014 \DeclareBibliographyDriver{unpublished}{%
- 2015 \usebibmacro{bibindex}%
- 2016 \usebibmacro{begentry}%
- 2017 \usebibmacro{author}%
- 2018 \setunit{\labelnamepunct}\newblock
- 2019 \usebibmacro{title}%
- 2020 \newunit
- 2021 \printlist{language}%
- 2022 \newunit\newblock
- 2023 \printfield{howpublished}%
- 2024 \newunit\newblock
- 2025 \printfield{note}%
- 2026 \newunit\newblock
- 2027 \usebibmacro{date}%
- 2028 \newunit\newblock
- 2029 \iftoggle{bbx:url}

```
{\usebibmacro{url+urldate}}
                             2030
                             2031
                                      {}%
                                    \newunit\newblock
                             2032
                                    \usebibmacro{addendum+pubstate}%
                             2033
                                    \newunit\newblock
                             2034
                                    \usebibmacro{pageref}%
                             2035
                             2036
                                    \usebibmacro{finentry}}
intitle+booktitle
                 bibmacro
                             2037 \renewbibmacro*{maintitle+booktitle}{%
                             2038
                                    \iffieldundef{maintitle}
                             2039
                                     {\usebibmacro{maintitle}%
                             2040
                                      \addspace
                             2041
                                      \newblock
                             2042
                                      \iffieldundef{volume}
                             2043
                             2044
                                       {\printfield{volume}%
                             2045
                                        \printfield{part}%
                             2046
                             2047
                                        \addspace
                                     }}%
                             2048
                                    \usebibmacro{booktitle}%
                             2050
                                    \newunit}
ournal+issuetitle bibmacro
                             2051 \renewbibmacro*{journal+issuetitle}{%
                             2052
                                    \usebibmacro{journal}%
                                    \setunit*{\addspace}%
                             2053
                                    \iffieldundef{series}
                             2054
                             2055
                                      {}
                                      {\newunit
                             2056
                                       \printfield{series}%
                             2057
                             2058
                                       \setunit{\addspace}}%
                             2059
                                    \printfield{volume}%
                                    \printfield[parens]{number}%
                             2060
                             2061
                                    \setunit{\addcomma\space}%
                                    \printfield{eid}%
                             2062
                                    \setunit{\addspace}%
                             2063
                                    \usebibmacro{issue+date}%
                             2064
                                    \setunit{\addcolon\space}%
                             2065
                                    \usebibmacro{issue}%
                             2066
                                    \newunit}
                             2067
isa:doi+eprint+url
                 bibmacro
                             2068
                                 \newbibmacro*{emisa:doi+eprint+url}{%
                                    \iftoggle{bbx:doi}
                             2069
                                      {\printfield{doi}}
                             2070
                             2071
                                      {}%
```

\newunit\newblock

2072

```
2073 \iftoggle{bbx:eprint}
2074 {\usebibmacro{eprint}}
2075 {}%
2076 \newunit\newblock
2077 \iftoggle{bbx:url}
2078 {\usebibmacro{emisa:url+urldate}}
2079 {}}
```

This is the end of the code taken (and modified) from standard.bbx.

**Code from authoryear.bbx** The following code is taken from authoryear.bbx and modified at several places (see comments). The macros in this subsection will supersede any previous definition by the same name(s).

#### author bibmacro

```
\renewbibmacro*{author}{%
2080
      \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
2081
       {\tt \{\fullhash\}{\tt bbx@lasthash}\AND}
2082
                     \NOT\iffirstonpage\AND
2083
                     \(\NOT\boolean{bbx@inset}\OR
2084
                     \iffieldequalstr{entrysetcount}{1}\)}
2085
2086
         {\bibnamedash}
         {\usebibmacro{bbx:savehash}%
2087
          \printnames[emisa:names]{author}%
2088
          \iffieldundef{authortype}
2089
           {\setunit{\addspace}}
2090
           {\setunit{\addcomma\space}%
2091
            \usebibmacro{authorstrg}%
2092
            \setunit{\addspace}}}%
2093
       }{%
2094
        \global\undef\bbx@lasthash
2095
        \usebibmacro{labeltitle}%
2097
        \setunit*{\addspace}}%
      \usebibmacro{date+extrayear}}
2098
```

#### bbx:editor bibmacro

```
\renewbibmacro*{bbx:editor}[1]{%
2099
      \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
2100
        {\tt \{\fill lash\}{\tt bbx@lasthash}\AND}
2101
                     \NOT\iffirstonpage\AND
2102
                     \(\NOT\boolean{bbx@inset}\OR
2103
                     \iffieldequalstr{entrysetcount}{1}\)}
2105
          {\bibnamedash}
          {\printnames[emisa:names]{editor}%
2106
2107
           \setunit{\addcomma\space}%
           \usebibmacro{bbx:savehash}}%
2108
         \usebibmacro{#1}%
2109
         \clearname{editor}%
2110
```

```
}{\global\undef\bbx@lasthash
                            2112
                                     \usebibmacro{labeltitle}%
                            2113
                                     \setunit*{\addspace}%
                            2114
                                    }%
                            2115
                                    \usebibmacro{date+extrayear}%
                            2116 %
                            2117
  bbx:translator bibmacro
                            2118 \renewbibmacro*{bbx:translator}[1]{%
                                  \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                            2119
                                    {\tt \{\fullhash\}{\tt bbx@lasthash}\AND}
                            2120
                                                  \NOT\iffirstonpage\AND
                            2121
                                 \(\NOT\boolean{bbx@inset}\OR
                            2122
                                   \iffieldequalstr{entrysetcount}{1}\)}
                            2123
                            2124
                                        {\bibnamedash}
                                        {\printnames[emisa:names]{translator}%
                            2125
                            2126 \setunit{\addcomma\space}%
                            2127 \usebibmacro{bbx:savehash}}%
                                     \usebibmacro{translator+othersstrg}%
                            2128
                                     \clearname{translator}%
                            2129
                            2130
                                     \setunit{\addspace}}%
                                    {\global\undef\bbx@lasthash
                            2131
                                     \usebibmacro{labeltitle}%
                            2132
                            2133
                                     \setunit*{\addspace}}%
                                  \usebibmacro{date+extrayear}}
                            2134
blisher+location+date
                 bibmacro
                            2135 \renewbibmacro*{publisher+location+date}{%
                                  \printlist{publisher}%
                            2136
                                  \setunit*{\addcomma\space}%
                            2137
                            2138
                                  \printlist{location}%
                                  \newunit}
                            2139
stitution+location+date
                 bibmacro
                            2140 \renewbibmacro*{institution+location+date}{%
                            2141
                                  \printlist{institution}%
                                  \setunit*{\addcomma\space}%
                            2142
                            2143
                                  \printlist{location}%
                                  \newunit}
                            2144
```

\setunit{\addspace}%

This is the end of the code taken (and modified) from authoryear.bbx.

#### Localization

2111

```
2145 \DefineBibliographyStrings{english}{%
2146 urlseen = {Last Access},
2147 techreport = {},%
2148 }%
```

```
2149 \DefineBibliographyStrings{german}{%
2150 urlseen = {Letzter Zugriff},%
2151 techreport = {},%
2152 }%
2153 \DefineBibliographyStrings{ngerman}{%
2154 urlseen = {Letzter Zugriff},%
2155 techreport = {},%
2156 }%
```

#### Unlocalization

```
2157 % year/month/day
2158 \protected\def\mkbibdateiso#1#2#3{%
      \iffieldundef{#1}{}{%
2159
        \theta = 13\%
2160
2161
        \left\{ f_{+2}^{2} \right\} = 1
      \iffieldundef{#2}{}{%
2162
        \mkdatezeros{\thefield{#2}}%
2163
        \iffieldundef{#3}{}{-}}%
2164
      \mkdatezeros{\thefield{#3}}%
2165
2166 }%
2167 \DefineBibliographyExtras{english}{\let\mkbibdateshort\mkbibdateiso}%
2168 \DefineBibliographyExtras{german}{\let\mkbibdateshort\mkbibdateiso}%
2169 \DefineBibliographyExtras{ngerman}{\let\mkbibdateshort\mkbibdateiso}%
```

Here, the EMISAJ bibliography style file emisa.bbx ends.

2170 (/bbx)

#### 19.10.2 The EMISAJ citation style

A citation style is a set of commands such as \cite which print different types of citations. Such styles are defined in files with the suffix cbx. The biblatex package loads the selected citation style file at the end of the package. Note that a small repertory of frequently used macros shared by several of the standard citation styles is also included in biblatex.def. This file is loaded at the end of the package as well, prior to the selected citation style.

The EMISAJ citation style is defined in the file emisa.cbx which is generated from the following code lines between the <\*cbx> and </cbx> meta-tags.

```
2171 \langle *cbx \rangle
2172 \ProvidesFile{emisa.cbx}[2016/07/18 2.1.1 EMISA citation style]
2173 \RequireCitationStyle{authoryear-comp}
2174 \renewcommand*{\nameyeardelim}{\addspace}
```

\DeclareRangeChars configures the \ifnumerals and \ifpages tests. The setup will also affect \iffieldnums and \iffieldpages as well as \mkpageprefix and \mkpagetotal. The argument is an undelimited list of characters which are to be considered as range indicators. The regular version of this command replaces the current setting, the starred version appends its argument to the current list. The default setting is {\pi, ;-+/}, so strings like '3-5', '35+', '8/9' and so on will be considered as a range.

Here we add the character f to enable ranges like "123f" and "456ff".

```
2175 \DeclareRangeChars*{f}

Here, the EMISAJ citation style file emisa.cbx ends.

2176 \langle /cbx \rangle

2177 \langle /biblatex \rangle

2178 \langle *class \rangle

Here, the LATEX class EMISAJ ends.

2179 \langle /class \rangle
```

# 19.11 Examples and templates

# 19.11.1 Document templates

Here we add a couple of small document templates to ease the creation of documents: emisa-article-template.tex for article authors and emisa-issue-template.tex for copy editors. Both are generated from the following piece.

```
2180 (*template)
2181 (*article)
2182 \documentclass[american]{emisa}
2183 %% You can use the following additional class options:
2184 %% referee, review -- Use for submission to peer-review process.
2185 %% draft -- mark overfull lines
2186 %% british, UKenglish -- British English hyphenation and quotation marks
2187 %% american, USenglish -- American English hyphenation and quotation marks
2188 (/article)
2189 \langle issue \rangle \setminus documentclass[final,cover]{emisa}
2190 (*article | issue)
2191 %% The following package imports are recommended, but not obligatory;
2192 %% you might want take a look into their respective manuals if you
2193 %% don't know what they do.
2194 \usepackage{amsmath,amssymb,mathtools}
2195 \usepackage{algorithmic,algorithm}
2196 %% Additional package imports go here:
2197 %% \usepackage{}
2198 (/article | issue)
2199 (*issue)
2200 %% Insert here issue data:
2201 \volume{}% Volume No.
2202 \issue{}{}% Issue No. and Issue Date
```

```
2203 %% If there are any bibliography data bases to be used globally
2204 %% please indicate here:
2205 \bibliography{}
2206 %% Insert here any (relative or absolute) path to be searched for
2207 %% graphics files:
2208 \graphicspath{{./figs_base/},{}}
2209 %% Here you can alter the cover pages; e.g. this:
2210 %% \coverII{\AtPageDeadCenter{Something}}
2211 %% typesets the word "Something" centered on the inner side of the
2212 %% front sheet.
2213 %% You can also delete any cover pages at all by defining them empty,
2214 %% see below:
2215 \coverII{}
2216 %% This outputs the SIG-MOBIS page on the inner side of the back
2218 \coverIII{\AtPageCenter{\sigmobispage}}
2219 (/issue)
2220 (*article | issue)
2221 %% Here, the normal text begins.
2222 \begin{document}
2223 (/article | issue)
2224 (*issue)
2225 \tableofcontents
2227 \begin{editorial}
2228 %% Please insert editorial text here.
2230 \end{editorial}
2231 (/issue)
2232 (*article | issue)
2233 \begin{article}{%
2234 %% Please declare the title elements of your article here. Unused
2235 %% elements can either be deleted or commented out, or else just let
2236 %% empty. In either case they are not typeset.
2237 %% If the option referee or review is given, all author tags, address,
2238 %% e-mail and acknowledgements will be likewise omitted.
      \title[Insert shorttitle for page headline]{Enter full title here}
2239
      \subtitle{Enter subtitle here, or leave empty}
2240
      \author*{FirstName LastName of corresponding author}{email@address.org}
2241
      \address{Enter affiliation of first (corresponding) author here. Note that only the starred v
2242
      %% Author with a different address
2243
      \author{FirstName LastName}
2244
      \address{Enter affiliation of second and further authors here. Add further authors following t
      %% Author with an already used address
2246
      \author{FirstName LastName}
2247
      \address[Letter of already used address]{}
2248
      %% Enter abstract, keywords, acknowledgements, authornotes
2249
      \abstract{Enter abstract here}
2250
```

2251

\keywords{Enter at a minimum three keywords here. Keyword1 \and Keyword2 \and Keyword3}

```
2252
      \acknowledgements{Enter acknowledgements here.}
      \authornote{If your submission is based on a prior publication and revises / extends this work
2253
      %% Please declare here the bibliography data base(s) you want to use
2254
      %% in this article (make sure to add the file extension, e.g. .bib):
2255
      \bibliography{}
2256
      %% Take note of the following closing bracket!
2257
2258
2259 (/article | issue)
2260 (*issue)
2261
      \editor{My self}
      \received{24 Octover 2014}
2262
      \accepted[2]{1 November 2015}
2263
      \doi{10.5073/EMISA.2011.11.1}
2264
      \license{License information}
2265
2266
      %% or
2267
      \CCBYNCSAThree
      %% or
2268
2269
      \CCBYNCSAFour
2270 (/issue)
2271 (*article | issue)
2272 %% Please insert your article text here.
2273 \section{Introduction}
2274 \subsection{The research problem}
2275 %% Remember to provide a unique label for each section, table, figure, listing and algorithm for
2277 %% This directive typesets the bibliography. To achieve this, one has
2278 %% to run the biber program on the corresponding auxiliary file
2279 %% generated in the previous LaTeX run; you can just use the job name
2280 %% (the name of this file without ".tex")", e.g.: biber emisa-author-template
2281 \printbibliography
2282 %
2283 \end{article}
2284 (/article | issue)
2285 (*issue)
2286
2287 %% Please insert as much article environments here as are needed.
2288 \begin{article}{%
       \title{}
2289
       \subtitle{}
2290
       \author*{<Name>}{<Email address>}
2291
       \address{address line 1\\address line 2}
2292
       % Author with unique address
2293
       \author{<Name>}
       \address{address line 1\\address line 2}
2295
       % Author with the same address as another author
2296
       \author{<Name>}
2297
       \address[a]{}
2298
       \abstract{<Insert abstract>}
2299
       \keywords{Keyword 1 \and keyword 2 \and keyword 3}
2300
```

```
\verb|\authornote| This article extends an earlier conference paper, see ...| \\
2301
        \acknowledgements{}
2302
        \editor{My self}
2303
        \received{24 Octover 2014}
2304
        \accepted[2]{1 November 2015}
2305
2306
        \doi{10.5073/EMISA.2011.11.1}
2307
        \bibliography{}
2308
2309
2310
2311 \printbibliography
2312 \end{article}
2313
2314 \begin{cfp}
2315 %% Please insert your Call for papers here.
2316 \end{cfp}
2317
2318 \imprint
2319 \editorialboard
2320 \guidelines
2321 \langle /issue \rangle
2322 ⟨article | issue⟩\end{document}
2323 (/template)
```

# **Change History**

0.92d	2.0
\markhead: \markboth had to be renamed to	General: No more config files 20
\markhead to avoid biblatex's	pltopsep changed 20
\printbibliography putting	2010-06-21
"REFERENCES" into the page head 33	General: Modified to use EMISA name
0.92n	format
\specialissuetitle: Fixed missing \space after non-empty Special Issue title prefix. 26	v2.0.0
\specialissuetitle*: New 26	General: First official release on GitHub and
0.95i	CTAN
General: Default left margin in all levels of all	General: Set uniquelist option to false in order to
list environments set to 1.25em 20	change the cite output
\editorialboardbody: Affiliation adress for	Added \FloatBarrier from the placeins
Reinhard Jung changed from University of	package at the end of the appendix 1
Duisburg-Essen to University of St. Gallen. 42	Added tracking (5 %) for smallcaps 1
0.951	Modified insertion of license text 1
General: Default left margin setting changed	Moved special issue title below title in page
back to old setting after production-level	header
emisa.cfg:	Special issue title now right aligned on even
1em/0.9em/0.7em/0.5em/0.4em/0.3em 20	pages

v2.1.0	\ifdefvoid
General: Changed \ifblank to \ifempty	v2.2.0
because of wrong interpretations. Not sure,	General: Changed: New Journal's subtitle set as
whether this is needed of older versions 1	header on even pages
Returned to \ifblank for the old versions 1	Changed: Author Instructions. Babel default
v2.1.1	option changed to american (from
General: Bugfix: Change \ifempty to	british)