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)

Stefan Strecker (stefan.strecker@fernuni-hagen.de)
Martin Sievers (martin.sievers@schoenerpublizieren.de)

November 27, 2020 - Version 2.3.0

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 https://emisa-journal.org 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 esquotes 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{ $\langle author \, name \rangle$ } followed by the corresponding address \address{ $\langle author's \, address \, (line \, 1) \rangle$ }. If you have multiple authors with the same address, please use \address{ $\langle author's \, address \rangle$ } only for the first one and \address[$\langle letter \, of \, address \rangle$] {} for all others. See emisa-author-template.tex for details.

\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 \rangle }{ $\langle email\ address\rangle$ }.

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 $\title{\langle abstract \rangle}$. 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{\lambdauthor 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 L^AT_EX commands such as \em, but rather use the L^AT_EX2e commands (e. g. \emph, \texttt).
- Do not make use of bold face (\textbf). Use \emph instead to typeset an important word in italics!
- ightharpoonup Always use the tilde ~ to connect before \ref{abel} , 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{\language metatype\rangle}, 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 $\ensuremath{\mbox{\mbox{$\setminus$}}} {\mbox{$\langle$ \mbox{\downarrow}}} 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, 1, c or r) 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 \textwidth 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 multiline page headline of the article.

\CCBYNCSATour 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 \licence) 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}
                         \@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}{%
    \@drafttrue
    \overfullrule 10pt
35 }%
36 \DeclareOption{final}{%
    \@draftfalse
    \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

- 40 \newif\if@referee
- noreview option
- 41 \DeclareOption{referee}{\@refereetrue}
- @referee switch
- 42 \DeclareOption{noreferee}{\@refereefalse} 43 \DeclareOption{review}{\@refereetrue}
- 44 \DeclareOption{noreview}{\@refereefalse}

cleveref option nocleveref option @usecleveref switch

- 45 \newif\if@usecleveref
- 46 \DeclareOption{cleveref}{\@useclevereftrue}
- 47 \DeclareOption{nocleveref}{\@useclevereffalse}

nocover option

cover 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

- 48 \newif\if@cover
- 49 \def\coveron{\@covertrue}
- 50 \def\coveroff{\@coverfalse}
- 51 \DeclareOption{cover}{\coveron}
- 52 \DeclareOption{nocover}{\coveroff}
- 53 \newif\if@microtype
- 54 \@microtypetrue
- 55 \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.

- 56 \PassOptionsToClass{a4paper,twoside,11pt}{article}%
- 57 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}%
- 58 \ExecuteOptions{american, final, noreferee, nocover, cleveref, oneside, openany}%
- 59 \ProcessOptions*\relax%

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_{ε} 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 biblatex 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 biblatex, 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.¹

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).

 $^{^{1}}$ 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{amsmath}
119 \RequirePackage{amssymb}
120 \RequirePackage{newtxmath}
121 \RequirePackage[zerostyle=b,straightquotes]{newtxtt}
122 \if@microtype
123 \UseMicrotypeSet[protrusion]{basicmath} % disable protrusion for tt fonts
124 \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.

```
125 \InputIfFileExists{glyphtounicode}%
      {\ClassInfo{emisa}{Reading file `glyphtounicode.tex`}
       \pdfgentounicode=1}%
127
      {\ClassWarning{emisa}{Couldn't find file `glyphtounicode.tex`}}%
128
      \RequirePackage{booktabs}
129
      \RequirePackage{listings}
130
131
      \lstset{basicstyle=\ttfamily\small}
      \lstnewenvironment{java}[1][]
132
133
          {\lstset{language=Java,float=*htbp,#1}}
134
          {}
      \lstnewenvironment{java*}[1][]
135
          {\lstset{language=Java,float=htbp,#1}}
136
137
      \lstnewenvironment{sourcecode}[1][]
138
         {\lstset{float=*htbp,#1}}
139
140
      \lstnewenvironment{sourcecode*}[1][]
141
          {\lstset{float=htbp,#1}}
142
143
      \RequirePackage[amsmath,standard,hyperref]{ntheorem}
144
```

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.

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

```
153
     linkcolor=black,
     anchorcolor=black,
154
     citecolor=black,
155
     filecolor=black,
156
     urlcolor=black.
157
     hyperfootnotes=false
158
     ]{hyperref}%
159
160 \if@usecleveref%
      \RequirePackage[capitalise,nameinlink]{cleveref}
161
162
      \crefname{section}{Sec.}{Sec.}
      \Crefname{section}{Sec.}{Sec.}
163
      \crefname{figure}{\figurename}{\figurename}
      \Crefname{figure}{\figurename}{\figurename}
165
      \crefname{listing}{\lstlistingname}{\lstlistingname}
166
      \Crefname{listing}{\lstlistingname}{\lstlistingname}
167
      \crefname{table}{\tablename}{\tablename}
168
      \Crefname{table}{\tablename}{\tablename}
169
170 \fi%
171 \RequirePackage[%
172
      type={CC},%
      modifier={by-nc-sa},%
173
      version={4.0}%
174
175 ]{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 \right) { \left( Action_if_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Action_if_not_empty \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) } \\ \left( arg \right) { \left( Arg \right) }
```

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.

```
183 \geometry{%
184
     a4paper,%
     portrait,%
185
     twoside,%
186
     ignoreall,%
187
188
     hcentering,%
     textwidth
                      = 162.5 \text{mm}, \%
189
190
                      = 220mm,\%
     textheight
     heightrounded,%
191
     columnsep
                      = 12.5 \text{mm},\%
192
                      = 47 \text{mm}, \%
     top
193
     headheight
                      = 16mm,\%
194
195
     headsep
                      = 13mm, %
     marginparwidth = 15mm,%
196
197
     marginparsep
                      = 5 \text{mm},%
     footskip
                      = 16mm\%
198
199
     }%
   \marginparpush 5mm%
   \AtBeginDocument{\baselineskip=13.6pt plus 0.5pt}%
   \parindent=4mm%
   \smallskipamount=.5\baselineskip
   \medskipamount=2\smallskipamount
   \bigskipamount=2\medskipamount
   \flushbottom
   \abovedisplayskip=.5\baselineskip plus .33\baselineskip
207
                                         minus .33\baselineskip
208
   \belowdisplayskip=\abovedisplayskip
209
   \abovedisplayshortskip= Opt plus .33\baselineskip
   \belowdisplayshortskip=.5\baselineskip plus .33\baselineskip
                                              minus .33\baselineskip
212
```

19.6 Scripts

```
\pageheadfont Assigning scripts to text elements.
\pagenumfont Page head and foot:
\pagefootfont 213 \def\pageheadfont{\normalfont}%
214 \def\pagenumfont{\pageheadfont\bfseries}%
215 \def\pagefootfont{\pageheadfont}%
```

```
\authorfont The elements of the article titles:
             \titlefont
                            216 \def\authorfont{\normalfont\Large}%
          \subtitlefont
                            217 \def\titlefont{\normalfont\bfseries\LARGE\boldmath}%
          \abstractfont
                            218 \def\subtitlefont{\normalfont\bfseries\Large\boldmath}%
                            219 \def\abstractfont{\normalfont\itshape}%
                          The elements of the affiliation box:
       \affiliationfont
 \affiliationauthorfont
                            220 \def\affiliationfont{\normalfont}
\affiliationaddressfont
                            221 \def\affiliationauthorfont{\bfseries}
  \affiliationemailfont
                            222 \def\affiliationaddressfont{\mdseries}
                            223 \def\affiliationemailfont{\mdseries}%
           \sectionfont Section headlines:
              \sec@font
                            224 \def\sectionfont{%
              \para@font
                            225
                                 \normalfont
                            226
                                 \bfseries
                                 \boldmath}%
                            227
                            228 \def\sec@font{\sectionfont\large}%
                            229 \def\para@font{\sectionfont}%
           \captionfont Captions:
                            230 \def\captionfont{\normalfont\small\itshape}
                          19.7 Colours
                          These are the colour definitions for a couple of elements.
                          The colours of the cover background (near 25% grey) and cover text (such as headlines, near 75% grey):
      coverbgcolor color
    covertextcolor color
```

headtextcolor color

These are the colours of the grey elements in column titles (50% grey) and of the frame and the background

231 \definecolor{coverbgcolor}{cmyk}{0.15,0.1,0.09,0}%

 $\label{localization} $$ \definecolor{covertextcolor}{cmyk}{0.77,0.76,0.70,0.61}\% $$$

of text boxes like that one used in \editorialboard (100% grey = black and 20% grey, respectively). boxframecolor color boxbgcolor color 233 \definecolor{headtextcolor}{gray}{0.5}% 234 \definecolor{boxframecolor}{gray}{1}%

235 \definecolor{boxbgcolor}{gray}{0.8}%

19.8 Double line spacing

\displayskipstretch \setdisplayskipstretch

236 \newcommand{\displayskipstretch}{\baselinestretch}

\setstretch Line space commands.

```
238 \newcommand{\setstretch}[1]{%
239 \def\baselinestretch{#1}%
240 \@currsize
241 }
```

\@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 Qsetsize}} {\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.

```
242 \def\@setsize#1#2#3#4{%
     \@nomath#1%
243
244
     \let\@currsize#1%
     \baselineskip #2%
245
     \baselineskip=\baselinestretch\baselineskip
246
     \parskip=\baselinestretch\parskip
     \setbox\strutbox \hbox{%
248
       \vrule height.7\baselineskip
249
               depth.3\baselineskip
250
               width\z@}%
251
     \skip\footins=\baselinestretch\skip\footins
252
     \normalbaselineskip\baselineskip#3#4}
253
```

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).

```
254 \everydisplay\expandafter{%
255 \the\everydisplay
256 \abovedisplayskip \displayskipstretch\abovedisplayskip
257 \belowdisplayskip \displayskipstretch\belowdisplayskip
258 \abovedisplayshortskip \displayskipstretch\abovedisplayshortskip
259 \belowdisplayshortskip \displayskipstretch\belowdisplayshortskip
260 }
```

19.9 Document markup

19.9.1 Declaring issue data

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

```
The journal name.
             \journalname
                              261 \def\journalname#1{\@bsphack\def\@journalname{#1}\@esphack}%
                              262 \journalname{Enterprise Modelling and Information Systems Architectures}%
        \journalsubtitle The journal's subtitle.
                              263 \def\journalsubtitle#1{\@bsphack\def\@journalsubtitle{#1}\@esphack}%
                              264 \journalsubtitle{International Journal of Conceptual Modeling}%
                            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.
                              \label{longdef} $$  \ \end{area} $$  \og\def\\end{area} $$ \og\def\@issn{#1}\@esphack}% $$
                              266 \issn{%ISSN 1860-6059 (Print)\par
                              267
                                        ISSN 1866-3621 (Online)}%
                  \volume Volume number.
                              268 \def\volume#1{\@bsphack\def\@volume{#1}\@esphack}%
                              269 \volume{\textcolor{red}{0}}%
                   \issue Issue number and date.
                              270 \def\issue#1#2{\@bsphack
                                    \def\@issue{#1}\%
                              271
                              272
                                    \def\@issuedate{#2}%
                                    \@esphack}%
                              274 \issue{\textcolor{red}\{0\}}{\textcolor{red}{month 0000}}%
      \specialissuetitle If the current issue is a special issue, the respective title goes here.
     \specialissuetitle*
                              275 \def\specialissuetitle{\@ifstar\@sspit\@spit}%
\specialissuetitleprefix
                              276 \newcommand{\@spit}[2][]{%
                                    \@bsphack
                              277
                                    \@ifempty{#2}%
                              278
                                     {\let\@specialissuetitle\relax}%
                              279
                                     {\@ifempty{#1}%
                              280
                                       {\def\@specialissuetitle{\@specialissuetitleprefix#2}}%
                              281
                                       {\def\@specialissuetitle{#1\space#2}}}%
                              282
                                    \@esphack}%
                              283
                                  \newcommand{\@sspit}[2][]{%
                              284
                                    \@bsphack
                              285
                                    \ensuremath{\mbox{@ifempty}{\#2}}\%
                              286
                                     {\let\@specialissuetitle\relax}%
                              287
                                     {\def\@specialissuetitle{#2}}%
                              288
                                    \@esphack}%
                              289
                              290 \newcommand{\specialissuetitleprefix}[1]{%
                                    \@bsphack
                              291
                              292
                                    \emptyset if empty {#1}%
```

{\let\@specialissuetitleprefix\relax}%

293

```
{\def\@specialissuetitleprefix{#1\space}}%

295 \@esphack}%

296 \specialissuetitle{}%

297 \specialissuetitleprefix{Special Issue on}%

\copyrightyear
\copyrightyear
\copyrightholder

298 \def\copyrightyear#1{\@bsphack\def\@copyrightyear{#1}\@esphack}%

299 \copyrightyear{\the\year}%

300 \def\copyrightholder#1{\@bsphack\def\@copyrightholder{#1}\@esphack}%

301 \copyrightholder{\textcolor{red}}\copyright{}holder}}%
```

\title \subtitle \author Title, subtitle, and author information for the current article.

These macros are a bit special as they accept up to *two* optional arguments together with the obligatory 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:

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.

```
302 \renewcommandtwoopt*{\title}[3][][]{%
                     \@bsphack
303
                     \def\@title{#3}%
304
                     305
                                                       \@ifempty{#2}{\def\@toctitle{\@shorttitle}}{\def\@toctitle{#2}}%
306
                     \@esphack}%
307
308
            \newcommandtwoopt*{\subtitle}[3][][]{%
                    \@bsphack
309
                     \def\@subtitle{#3}%
310
311
                     \@ifempty{#1}{\def\@shortsubtitle{\@subtitle}}{\def\@shortsubtitle{#1}}%
                     312
                     \@esphack}%
313
314 \def\email#1{%
                         \ifx\@email\@empty
315
316
                                    \def\@email{#1}
317
                                    \ClassError{emisa}{There can only be one corresponding author!}{}
318
319
                         \fi}%
\label{lem:command} $$ \operatorname{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\command}_{\comma
```

```
\newcommand*{\@authornostar}[1]{%
322
      \@bsphack
      \if@referee
323
        \def\@authors{}%
324
        \def\@shortauthors{}
325
     \else
326
          \gdef\@address@sep{}%
327
          \ifx\@authors\@empty
328
              \protected@xdef\@authors{#1}
329
              \protected@xappto\@shortauthors{#1}
330
          \else
331
              \protected@xappto\@authors{,\space #1}
332
              \protected@xappto\@shortauthors{,\space #1}
333
          \fi%
334
     \fi
335
      \@esphack}%
336
   \newcommandtwoopt*{\@authorstar}[3][][]{%
337
        \@bsphack
338
339
       \if@referee
          \def\@authors{}%
340
          \def\@shortauthors{}%
341
          \def\@tocauthors{}%
342
          \def\@email{}\%
343
       \else
344
          \gdef\@address@sep{}%
345
          \ifx\@authors\@empty
346
              \protected@xdef\@authors{#3\textsuperscript{*,}}
              \protected@xappto\@shortauthors{#3}
348
          \else
349
              \protected@xappto\@authors{,\space #3\textsuperscript{*,}}
350
              \protected@xappto\@shortauthors{,\space #3}
351
352
          \@ifempty{#1}{\def\@shortauthor{\@shortauthors}}{\def\@shortauthor{#1}}%
353
354
          \@ifempty{#2}{\def\@tocauthor{\@shortauthors}}{\def\@tocauthor{#2}}%
355
       \fi
        \@esphack
356
        \@ifnextchar\bgroup\email{\ClassError{emisa}{Please provide an email address for the correspondent
357
   \newcommand{\keywords}[1]{
358
       \@bsphack
359
       \def\and{\unskip\ \textbullet\ }%
360
       \def\@keywords{#1}%
361
       \@esphack}%
362
   \newcommand{\authornote}[1]{
363
      \@bsphack
364
      \if@referee
365
         \def\@authornote{}%
366
      \else
367
          \def\@authornote{#1}%
368
       \fi%
```

369

```
370
                 \@esphack}%
         \newcommand{\editor}[1]{
371
                 \@bsphack
372
                 \def\@articleinfo@name{#1}%
373
                 \@esphack}%
374
375 \newcommand{\received}[1]{
376
                 \@bsphack
                 \def\@articleinfo@rdate{#1}%
377
                 \@esphack}%
         \newcommand{\accepted}[2][]{
379
                 \@bsphack
380
                 \def\@articleinfo@rounds{#1}
381
                 \def\@articleinfo@adate{#2}%
382
                 \@esphack}%
383
         \newcommand{\doitext}{DOI:}
384
385
         \newcommand*{\outdoi}{%
               \begingroup
386
               \c) = \c) \#\c)
387
388
              \label{def-{\#}}%
               \lccode`\~=`\_\relax
389
               \label{def-{\_}}%
390
               \lccode`\~=`\<\relax
391
               \lowercase{\def~{\textless}}%
392
               \lccode`\~=`\>\relax
393
394
               \lowercase{\def~{\textgreater}}%
395
               \lccode`\~=0\relax
               \catcode`\#=\active
396
397
              \catcode`\_=\active
               \catcode`\<=\active
398
              \catcode`\>=\active
399
               \@outdoi
400
401 }
        \def\@outdoi#1{%
402
403
               \let\#\relax
404
              \left| \cdot \right| relax
               \let\textless\relax
405
              \let\textgreater\relax
406
               \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath}\ensuremath{\ensuremath{\ens
407
408
              \edef\#{\@percentchar23}%
409
              \left\{ -\left\{ _{-}\right\} \right\} 
410
              \edef\textless{\@percentchar3C}% instead of {\string<} for Apple
411
               \edef\textgreater{\@percentchar3E}% instead of {\string>} for Apple
412
              413
414
              415
              \backslash x
416
417 }
418 \newcommand*{\doi}[1]{
```

```
419
      \@bsphack
       \def\@doi{#1}
420
       \@esphack}%
421
422 \newcommand{\acknowledgements}[1]{
       \@bsphack
423
       \def\@acknowledgements{#1}
424
       \@esphack}%
425
426 \newif\if@licenseset
   \newcommand{\licence}[1]{%
      \@bsphack
428
       \def\@licence{#1}
429
       \@esphack}%
430
431 \let\license\licence
   \newcommand{\CCBYNCSAThree}{%
432
433
       \@licensesettrue%
434
       \def\doclicense@type{CC}%
      \def\doclicense@modifier@uppercase{BY-NC-SA}%
435
       \def\doclicense@versionUsed{3.0}%
437 }%
   \newcommand{\CCBYNCSAFour}{%
438
       \@licensesettrue%
439
       \def\doclicense@type{CC}%
440
       \def\doclicense@modifier@uppercase{BY-NC-SA}%
441
       \def\doclicense@versionUsed{4.0}%
442
443 }%
   \newcounter{addresses}
   \verb|\renewcommand{\theaddresses}| \{ alph\{addresses\} \}|
   \newcommand{\address}[2][]{%
     \@bsphack
447
     \if@referee
448
         \def\@addresses@list{}
449
     \else
450
         \@ifempty{#2}{%
451
452
              \@ifempty{#1}{}{%
                   \protected@xappto\@authors{\textsuperscript{\@address@sep #1}}
453
                    \gdef\address@sep{,}%
          }}{%
455
                \stepcounter{addresses}
456
                \protected@xappto\@authors{\textsuperscript{\@address@sep\theaddresses}}
457
                \gdef\@address@sep{,}%
458
                \ifx\@addresses@list\@empty
459
                    \protected@xdef\@addresses@list{\textsuperscript{\theaddresses}\ #2}
460
                \else
461
                     \protected@xappto\@addresses@list{\newline\textsuperscript{\theaddresses}\ #2}
462
                \fi}
463
     \fi
464
     \@esphack}%
465
466 \title{}%
```

467 \subtitle{}%

```
468 \author{}%
            469 \address{}
            470 \keywords{}%
            471 \authornote{}%
            472 \editor{}%
            473 \received{}%
            474 \accepted{}%
            475 \doi{}%
            476 \licence{}
            477 \acknowledgements{}%
            478 \def\abstract#1{\@bsphack\def\@abstract{#1}\@esphack}%
            479 \abstract{}%
            480 \def\@authors{}
            481 \def\@shortauthor{}
            482 \def\@shortauthors{}
            483 \def\@tocauthor{}
            484 \def\@tocauthors{}
             485 \def\@email{}
            486 \def\@addresses@list{}
\abstract This accepts the abstract text.
            487 \def\abstract#1{\abstract{#1}\aesphack}%
            488 \abstract{}%
```

\outputarticleappendix \@articleappendix \@wrap@articleappendix 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.

```
489 \DeclareRobustCommand{\outputarticleappendix}{%
490
     {%
      \appendix
491
492 \@articleappendix
493 \global\let\@articleappendix\relax
     }%
494
495 }%
496
   \long\def\@wrap@articleappendix#1{\gappto{\@articleappendix}{{#1}}}
   \newenvironment{articleappendix}{%
     \gappto{\@articleappendix}{\clearpage}%
     \Collect@Body\@wrap@articleappendix}{}
499
   \newenvironment{articleappendix*}{%
     \Collect@Body\@wrap@articleappendix}{}
501
502 \let\@articleappendix\relax
   \def\@makefnmark{\textsu{\@thefnmark}\ }%
   \renewcommand\@makefntext[1]{%
       \parindent 1em%
505
       \noindent%
506
       \@makefnmark#1}%
```

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.

- 508 \newlength{\headwidth}%
- 509 \newlength{\bleed}%
- 510 \newlength{\headmargin}%
- 511 \newlength{\footrulewidth}%
- 512 \newlength{\headfootruleheight}%
- 513 \setlength{\bleed}{3mm}%
- 514 \setlength{\headfootruleheight}{0.4mm}%

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

- 515 \AtBeginDocument{%
- \setlength{\headwidth}{\paperwidth+2\bleed}% 516
- \setlength{\headmargin}{0.5\headwidth-0.5\textwidth}% 517
- \setlength{\footrulewidth}{0.5\headwidth+0.5\textwidth}}%

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

```
519 \newcommand{\headbox}[8]{\bgroup%
                    520
                          \setstretch{1}%
                          \reset@font\pageheadfont
                    521
                          \tabcolsep\z@
                    522
                          \arrayrulewidth\headfootruleheight
                    523
                          \hskip-\headmargin
                     524
                          \begin{tabular*}{\headwidth}[b]%
                    525
                            {@{\text{\underline{a}}}}%
                    526
                            >{\text{-1.25mm}}_{\text{sm}}_{\text{smm-\alpharrayrulewidth}}%
                    527
                    528
                            1@{\extracolsep{\textwidth minus 1fill}}r%
                            @{\rule{\headmargin}{\z@}}}
                    529
                            #1 & #2\\
                    530
                    531
                            \hline
                            #3 & #4\\
                    532
                            \hline
                    533
                    534
                            #5 & #6\\
                            \hline
                    535
                            #7 & #8\\
                    536
                    537
                          \end{tabular*}%
                          \hskip-\headmargin
                    538
                          \egroup
                    539
                     540 }%
                   These macros are used to assemble the page head, . . .
  \theheadvolume
 \headpageoffset
                    541 \newcommand{\theheadvolume}{%
 \theoddheadpage
                          \begingroup%
\theevenheadpage
                          \hypersetup{urlcolor=headtextcolor}%
                    543
                          \textcolor{headtextcolor}{%
                    544
                             Vol.\,\@volume, No.\,\@issue\ (\@issuedate).%
                    545
                             \ifx\@doi\@empty\else\ \outdoi{\@doi}\fi}\%
                    546
                          \endgroup}%
                    547
                    548 \newlength{\headpageoffset}%
                        \setlength{\headpageoffset}{10mm}%
                    550 \def\theoddheadpage{%
                          \rlap{\makebox[\headpageoffset][r]{\pagenumfont\thepage}}}%
                    552 \def\theevenheadpage{%
                          \llap{\makebox[\headpageoffset][1]{\pagenumfont\thepage}}}%
 @footrule switch
                   ... and these are for the page foot.
    \footruleoff
                    554 \newif\if@footrule%
     \footruleon
                    555 \def\footruleoff{\global\@footrulefalse}%
       \footrule
                    556 \def\footruleon{\global\@footruletrue}%
                    557 \def\footrule#1{%
                          \if@footrule
                    558
                            \makebox[\textwidth][#1]{%
                    559
                               \reset@font
                    560
                    561
                              \rule[\headfootruleheight]{\footrulewidth}{\headfootruleheight}%
```

```
562
                                                                              }\fi}%
          \headmarkstyle
                                                   Sets the content marks in the running titles.
                      \markhead
                                                      563 \def\headmarkstyle#1{\@bsphack
               \markarticle
                                                                    \def\@headmarkstyle{#1}%
          \markeditorial
                                                                    \@esphack}%
                                                      566 \headmarkstyle{\color{headtextcolor}}%
                                                      567 \def\markhead#1#2{\@bsphack
                                                                    \gdef\@evenmark{#1}%
                                                      568
                                                                    \gdef\@oddmark{#2}%
                                                      569
                                                                    \@esphack}%
                                                      570
                                                      571 \def\markarticle{\markhead{\@shortauthor}{\@shorttitle}}%
                                                      572 \def\markeditorial{\markhead{\@shorttitle}}%
                                                 Finally that all being thrown together gives the basic page style.
                      \ps@emisa
                                                      573 \def\ps@emisa{%
                                                                    \def\@oddhead{%
                                                      574
                                                      575
                                                                         \headbox{\@journalname}{}%
                                                                                             {\theheadvolume}{}%
                                                      576
                                                                                             {{\@headmarkstyle\@oddmark}}{\theoddheadpage}%
                                                      577
                                                                                             {\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\fi
                                                      578
                                                                    }%
                                                      579
                                                                    \def\@evenhead{%
                                                      580
                                                                         \headbox{}{\@journalsubtitle}%
                                                      581
                                                                                             {}{\theheadvolume}%
                                                      582
                                                                                             {\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{\color
                                                      583
                                                                                             {}{\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\:
                                                      584
                                                      585
                                                                    }%
                                                                    \let\@oddmark\relax
                                                      586
                                                                    \let\@evenmark\relax
                                                      587
                                                                    \def\@oddfoot{\footrule{r}}%
                                                      588
                                                                    \def\@evenfoot{\footrule{1}}%
                                                      589
     \ps@emisaarticle
                                                   We have two minimally different page styles:
\ps@emisaeditorial
                                                   ▶ \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.
                                                      591 \def\ps@emisaarticle{%
                                                                    \ps@emisa
                                                      592
                                                                    \markarticle
                                                      593
                                                                    \footruleoff
                                                      594
                                                      595 }%
```

596 \def\ps@emisaeditorial{%

\markeditorial

\footruleon

\ps@emisa

597

598

```
600 }%
601 \AtEndOfClass{\pagestyle{emisa}}%
```

19.9.3 Cover and advertisement pages

\basecoverfont \covervolumefont 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.

- \covertitlefont 602 \def\basecoverfont{\normalfont\sffamily}%
 603 \def\covervolumefont{%
 - 604 \basecoverfont\fontsize{6mm}{6mm}\selectfont}%
 - 605 \def\covertitlefont{%
 - 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.

- 607 \def\coverIbgname{U1_bg}%
- 608 \def\coverIVbgname{U4_bg}%
- 609 \def\sigmobislogoname{SIG-MOBIS-logo-300}%
- 610 \def\sigEMISAlogoname{EMISA-Logo-svg}%
- 611 \def\gislogoname{GIS-logo_with_text-300}%

\AtPageDeadCenter \page@empty

\AtPageDeadCenter centers its argument horizontally and vertically around the geometric page center.

This macro is to be used inside some eso-pic ShipoutPicture.

```
612 \newcommand{\AtPageDeadCenter}[1]{%
613    \AtPageCenter{\makebox[\z@][c]{%
614    \raisebox{-0.5\totalheight}[\z@][\z@]{#1}}}%
615 }%
616 \def\page@empty{\relax}%
```

\pagebg Background color for one whole page plus bleed.

```
617 \newcommand{\pagebg}[1]{%
618 \AtPageDeadCenter{%
```

619 \textcolor{#1}{\rule{\paperwidth+2\bleed}{\paperheight+2\bleed}}}}%

\thispagebackground

\thispagebackground put its obligatory argument into the background of the running page. If there is a non-empty optional argument it will be interpreted as the style of this page (using \thispagestyle).

```
620 \newcommand{\thispagebackground}[2][]{%
621  \@ifarg{#1}{\thispagestyle{#1}}%
622  \AddToShipoutPicture*{%
623  \unitlength 1mm\relax%
624  {#2}%
625 }}%
```

```
\picturepage additionally empties and flushes the running page, thus producing a picture-only page.
                        626 \newcommand{\picturepage}[2][empty]{%
                              \thispagebackground[#1]{#2}%
                        627
                              \null\clearpage
                        628
                      This loads a picture file to generate a picture-only page from.
 \inputpagegraphic
                        630 \newcommandtwoopt*{\inputpagegraphic}[3][empty][]{%
                              \thispagebackground[#1]{\includegraphics[width=\paperwidth,#2]{#3}}%
                              \null\clearpage
                        633 }%
         \coverpage \coverpage is a special form of the \picturepage:
                        634 \newcommand{\coverpage}[2][]{%
                              \@ifarg{#1}{\setcounter{page}{#1}}%
                        636
                              \picturepage{#2}%
                        637 }%
\thecovervolumeline
                      These represent the
     \thecovertitle
                        638 \newcommand{\thecovervolumeline}{%
                              \parbox[t]{130mm}{%
                        639
                                \raggedright
                        640
                                \color{covertextcolor}\covervolumefont%
                        641
                                Volume\space\@volume
                        642
                                \enspace \left[-1mm\right] \{0.5mm\} \{6mm\} \enspace
                        643
                                No.\,\@issue\space\textbf{\@issuedate}\\[3mm]%
                        644
                                \@specialissuetitle
                        645
                              }%
                        646
                        647 }%
                           \def\thecovertitle{%
                        648
                              \parbox[t][30mm][s]{174mm}{%
                        649
                                \color{covertextcolor}%
                        650
                                \covertitlefont
                        651
                                \raggedright\@journalname\par
                        652
                        653
                                \vskip8mm
                                \covervolumefont
                        654
                                \raggedleft
                        655
                                \textbf{An International Electronic Journal\,}}}
                        656
```

\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].

```
657 \def\sigmobispage{%
658 \makebox[\z@][c]{%
```

```
659
                             \begin{minipage}[c][260mm][s]{\textwidth}
                     660
                               \sigmobispagehead
                               \medskip
                     661
                     662
                               The GI-SIG-MoBIS portal provides numerous resources on enterprise
                     663
                               modelling research, such as a full-text digital library, a
                     664
                               bibliography, conference announcements, a glossary and evaluation
                     665
                               reports. It is intended to establish the premier forum for an
                     666
                               international community in enterprise modelling. The new version
                               is based on a Content Management System allowing authorized users
                     668
                               to conveniently upload content. A \BibTeX{} interface allows for
                     669
                               conveniently integrating bibliographic data. Information about
                     670
                               this journal, such as guidelines for authors, tables of content
                     671
                               and full-text access to articles (for GI-SIG-MobIS members only)
                     672
                     673
                               are also available on the~portal.
                               \par
                     674
                               \medskip
                     675
                               \begin{center}
                     677
                                 \includegraphics{GI-SIG-MOBIS_portal}
                     678
                               \end{center}
                     679
                     680
                               \medskip
                     681
                     682
                     683
                               GI encourages everybody who wants to participate in the
                               evolution of this community knowledge base to contribute to any of
                     684
                           the categories covered by the portal. Please contact Michael He\ss{}
                     685
                           (\href{mailto:m.hess@uni-duisburg-essen.de}{m.hess@uni-duisburg-essen.de})
                     686
                           for further~information.
                     687
                     688
                               \vfill
                     689
                     690
                               \sigmobispagefoot
                     691
                             \end{minipage}%
                     693
                           }%
                     694 }
\sigmobispagehead
                    Elements of \sigmobispage.
\sigmobispagefoot
                     695 \def\sigmobispagerule#1{%
\sigmobispagerule
                     696 \parbox[c][23mm][s]{\linewidth}{%
                     697
                           \centering
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}%
                     698
                           \par\vfill
                     699
                           \raisebox{-.4\height}[.5\totalheight][.5\totalheight]{\huge#1}%
                     700
                           \par\vfill
                     701
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}}\par}%
                         \def\sigmobispagehead{\sigmobispagerule{SIG-MoBIS Portal}}
                     704 \def\sigmobispagefoot{\sigmobispagerule{http://wi-mobis.gi-ev.de/}}
```

```
Each of these prepares one of the cover pages.
  \coverI
 \coverII
             705 \def\coverI#1{\@ifempty{#1}%
\coverIII
                    {\let\@coverI\relax}%
             706
 \coverIV
                    {\def\@coverI{\coverpage[-2]{#1}}}}%
             708 \def\coverII#1{\@ifempty{#1}%
             709
                    {\let\@coverII\relax}%
                    {\def\@coverII{\coverpage[-1]{#1}}}}%
             710
             711 \def\coverIII#1{\@ifempty{#1}%
                    {\let\@coverIII\relax}%
             712
                    {\def\@coverIII{\coverpage{#1}}}}%
             713
             714 \def\coverIV#1{\@ifempty{#1}%
                    {\let\@coverIV\relax}%
             715
                    {\def\@coverIV{\coverpage{#1}}}}%
             716
           So we prepare the four cover pages.
             717 \coverI{%
             718
                   \pagebg{coverbgcolor}%
                   \AtPageUpperLeft{%
             719
                     \raisebox{-\totalheight}{\includegraphics{\coverIbgname}}}%
             720
             721
                   \AtPageUpperLeft{\put(17,-28){\mbox{%
                     \includegraphics[height=19mm]{\sigmobislogoname}%
             722
                     \hspace{5mm}%
             723
                     \includegraphics[height=14.75mm]{\sigEMISAlogoname}%
             724
                     }}%
             725
                   }%
             726
             727
                   \AtPageLowerLeft{\put(166,9){\includegraphics{\gislogoname}}}%
                   \AtPageLowerLeft{\put(17,44){\thecovervolumeline}}%
             728
                   \AtTextLowerLeft{\put(-28,36){\framebox(200,62)[c]{}}}
             729
             730
                   \AtPageLowerLeft{\put(17,112){\thecovertitle}}%
             731 }%
             732 \coverII{\page@empty}%
             733 \coverIII{\AtPageCenter{\sigmobispage}}%
             734 \coverIV{%
                   \pagebg{coverbgcolor}%
             735
                   \AtPageLowerLeft{%
             736
                     \raisebox{167mm}{\includegraphics{\coverIVbgname}}}%
             737
                   \AtPageLowerLeft{%
             738
             739
                     \put(6,9){\parbox[b]{10cm}{\raggedright\large\sffamily\@issn}}}%
                   \AtPageLowerLeft{%
             740
                     \put(166,9){\includegraphics{GIS-logo_with_text-300}}}%
             741
             742 }%
             743 \if@cover
             744
                   \AtBeginDocument{%
                     \@coverI\@coverII
             745
                     \setcounter{page}{1}%
             746
                   }%
             747
                   \AtEndDocument{%
             748
             749
                     \@coverIII\@coverIV
```

```
750 }%
751 \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.

```
752 \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.

```
753 \newcounter{article}%
754 \@addtoreset{section}{article}%
755 \@addtoreset{footnote}{article}%
756 \@addtoreset{figure}{article}%
757 \@addtoreset{table}{article}%
```

article This encapsulates each article.

```
758 \newenvironment{article}[1]{%
759  \clearpage
760  \refstepcounter{article}%
761  \pagestyle{emisaarticle}%
762  \col@number=\tw@\relax
763  #1\relax
764  \l@article
```

Every article is its own bibliographical unit.

```
\begin{refsection}%
765
766
     \maketitle
767
     \ignorespaces
     }{%
768
     \end{refsection}%
769
     \outputarticleappendix\FloatBarrier\par%
770
     \vspace{\baselineskip}%
771
     \noindent\ignorespaces
772
     \if@licenseset
773
         \edef\doclicenseURL{%
774
            \doclicense@baseUrlCC/%
775
776
            licenses/%
            \doclicense@modifier/%
777
            \doclicense@versionUsed\doclicense@UrlLangPart%
778
779
         \begin{minipage}{\columnwidth}
780
781
         \parbox[t]{\dimexpr 0.975\columnwidth-\doclicense@imagewidth\relax}{\vskip 0pt\raggedright\:
```

```
\doclicense@lang@thisDoc\space
782
                                                                            \label{localize} $$ \end{Type\space} \end{Type\space} \end{Localize} $$ \end{Type\space} $$ \end{Type\sp
783
                                                                            \doclicense@lang@word@license.}%
784
                                                        \hfill%
785
                                                        \parbox[t]{\doclicense@imagewidth}{\vskip Opt\doclicenseImage}%
786
                                                        \end{minipage}%
787
788
                                                        \ifx\@licence\@empty\relax\else\par\noindent\@licence\fi%
789
                                    \fi%
791
                                     \onecolumn
                                     \ignorespacesafterend}%
792
```

19.9.5 Formatting editorial content

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

```
793 \newcommandtwoopt{\edit@setup}[3][][]{%
794 \title[#1][#2]{#3}
795 \pagestyle{emisaeditorial}
```

Here, section titles are a bit larger than otherwise.

```
796 \def\sec@font{\sectionfont\Large}%
797 \def\para@font{\sectionfont}%
798 \setcounter{section}{0}%
799 }%
```

editorialcontent

This encapsulates editorial content entries.

```
800 \newenvironment{editorialcontent}[1]{%
801 \onecolumn
802 \refstepcounter{article}%
803 \edit@setup{#1}%
804 \l@editorialcontent
805 \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
```

Every editorial content is its own bibliographical unit.

```
806 \begin{refsection}%
807 \ignorespaces
808 }{%
809 \end{refsection}%
810 \onecolumn
811 \ignorespacesafterend}%
```

19.9.6 Standard editorial content environments

Several types of standardized editorial contents.

```
editorial This encapsulates editorials.

\editorialname
812 \def\editorialname{Editorial Preface}%
```

```
814
                                             \clearpage
                                             \edit@setup{#1}%
                                 815
                                             \twocolumn[{\raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}}]%
                                 816
                                             \l@editorialcontent
                                 817
                               Every editorial is its own bibliographical unit.
                                             \begin{refsection}%
                                 818
                                 819
                                             \ignorespaces
                                             }{%
                                 820
                                             \end{refsection}%
                                 821
                                             \onecolumn
                                 823
                                             \ignorespacesafterend}%
                   cfp Call for papers.
        \cfpname
                                 824 \def\cfpname{Call for Papers}%
                                 825 \newenvironment{cfp}[1][\cfpname]%
                                 826 {\editorialcontent{#1}}%
                                 827 {\endeditorialcontent}%
        \imprint
                              Imprint.
\imprintname
                                 828 \newcommandtwoopt{\imprint}[2][\@imprintname][\@imprintbody]{%
\imprintbody
                                 829
                                             \onecolumn
                                             \edit@setup[#1]{\@journalname}%
                                 830
                                             \l@editorialcontent
                                 831
                                             \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
                                 832
                                             \ignorespaces
                                 833
                                             #2
                                 834
                                             \onecolumn\ignorespacesafterend}%
                                 835
                                 836 \def\imprintname#1{\@bsphack\def\@imprintname{#1}\@esphack}%
                                         \label{longdefimprintbody#1} $$ \end{area} $$ \label{longdefimprintbody#1} $$ \end{area} $$ \end{a
                                 838 \imprintname{Imprint}%
                                 839 \imprintbody{%
                                             The journal \emph{\@journalname} is the official journal of the
                                 840
                                             Special Interest Group on Modelling Business Information Systems
                                 841
                                             within the German Informatics Society (GI-SIG MoBIS).
                                 842
                                 843
                                             The journal Enterprise Modelling and Information Systems
                                 844
                                             Architectures is intended to provide a forum for those who prefer a
                                 845
                                             design-oriented approach. As the official journal of the German
                                  846
                                             Informatics Society (GI-SIG-MoBIS), it is dedicated to promote the
                                 847
                                             study and application of languages and methods for enterprise
                                 849
                                             modelling -- bridging the gap between theoretical foundations and
                                             real world requirements. The journal is not only aimed at
                                 850
                                             researchers and students in Information Systems and Computer
                                 851
                                             Science, but also at information systems professionals in industry,
                                 852
                                             commerce and public administration who are interested in innovative
                                 853
                                             and inspiring concepts.
                                 854
```

813 \newenvironment{editorial}[1][\editorialname]{%

```
855
856
     The journal's editorial board consists of scholars and practitioners
     who are renowned experts on various aspects of developing, analysing
857
     and deploying enterprise models. Besides Information Systems, they
858
     cover various fields of Computer Science.
859
860
     \section*{Subscription Information}
861
862
     The journal is distributed free of charge for members of the
     GI-SIG-MoBIS. Membership can be acquired through the German
864
     Informatics Society (http://www.gi-ev.de/verein/mitgliedschaft/).
865
     Single issues, priced at EUR\,25 each (plus shipment), can be ordered
866
     online (http://www.fg-mobis.gi-ev.de/).}
867
```

\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.

```
868 \newsavebox{\@editorial@box}%
869 \newlength{\editorialboxmaxheight}%
870 \setlength{\editorialboxmaxheight}{\textheight+10mm}%
871 \newcommandtwoopt{\editorialboard}[2]%
    [\@editorialboardname][\@editorialboardbody]{%
872
     \clearpage
873
     \edit@setup[#1]{#1}%
874
     \l@editorialcontent
     \savebox{\@editorial@box}{%
876
       \vbox{\centering%
877
     \fboxsep=5mm
878
     \fcolorbox{boxframecolor}{boxbgcolor}{%
879
880 \begin{minipage}[t]{110mm}
     \raggedright
881
882
883 \end{minipage}}\\*
884 }%
885
     \raisebox{15mm-\totalheight}[5mm][0mm]{\makebox[\textwidth][c]{%
886
       \ifdim\ht\@editorial@box>\editorialboxmaxheight
887
     \resizebox{!}{\editorialboxmaxheight}{\usebox{\@editorial@box}}%
888
889 \else
     \usebox{\@editorial@box}%
890
891 \fi
     }}\\*
892
     \raisebox{-\textheight}[0mm][0mm]{\makebox[\textwidth][1]{%
     \parbox[t]{\textwidth}{\raggedleft\bfseries\@issn}%
```

```
895 }}%
```

- 896 \onecolumn\ignorespacesafterend
- 897 }%
- 898 \def\editorialboardname#1{%
- 899 \@bsphack\def\@editorialboardname{#1}\@esphack}%
- 900 \long\def\editorialboardbody#1{%
- 902 \editorialboardname{Editorial Board}%
- 903 \editorialboardbody{%
- 904 \section*{\@title}\vskip1mm
- 905 {\Large Editors in Chief\\[1mm]}
- 906 Ulrich Frank, University of Duisburg-Essen\\
- 907 Manfred Reichert, Ulm University\\[1mm]
- 908 {\Large Associate Editors\\[1mm]}
- 909 Wil van der Aalst, Eindhoven University of Technology\\
- 910 Witold Abramowicz, Poznan University of Economics\\
- 911 Colin Atkinson, University of Mannheim\\
- 912 J\"org Becker, University of M\"unster\\
- 913 J\"org Desel, University of Hagen\\
- 914 Werner Esswein, Dresden University of Technology\\
- 915 Fernand Feltz, Centre de Recherche Public Gabriel Lippmann\\
- 916 Andreas Gadatsch, Bonn-Rhine-Sieg University of Applied Sciences\\
- 917 Martin Glinz, University of Zurich\\
- 918 Norbert Gronau, University of Potsdam\\
- 919 Wilhelm Hasselbring, University of Kiel\\
- 920 Brian Henderson-Sellers, University of Technology, Sydney\\
- 921 Stefan Jablonski, University of Bayreuth\\
- 922 Manfred Jeusfeld, Tilburg University\\
- 923 Reinhard Jung, University of St.\,Gallen\\
- 924 Dimitris Karagiannis, University of Vienna\\
- 925 John Krogstie, University of Trondheim\\
- 926 Thomas K\"uhne, Victoria University of Wellington\\
- 927 Frank Leymann, University of Stuttgart\\
- 928 Stephen W. Liddle, Brigham Young University\\
- 929 Peter Loos, Johannes Gutenberg-University of Mainz\\
- 930 Oscar Pastor L\'opez, Universidad Polit\`ecnica de Val\`encia\\
- 931 Heinrich C. Mayr, University of Klagenfurt\\
- 932 Jan Mendling, Vienna University of Economics and Business\\
- 933 Markus N\"uttgens, University of Hamburg\\
- 934 Andreas Oberweis, University of Karlsruhe\\
- 935 Erich Ortner, Darmstadt University of Technology\\
- 936 Erik Proper, Radboud University Nijmegen\\
- 937 Michael Rebstock, University of Applied Sciences Darmstadt\\
- 938 Stefanie Rinderle-Ma, University of Vienna\\
- 939 Michael Rosemann, Queensland University of Technology\\
- 940 Matti Rossi, Aalto University\\
- 941 Elmar J. Sinz, University of Bamberg\\
- 942 Friedrich Steimann, University of Hagen\\
- 943 Stefan Strecker, University of Hagen\\

```
944 Bernhard Thalheim, University of Kiel\\
```

- 0liver Thomas, University of Osnabr\"uck\\
- 946 Juha-Pekka Tolvanen, University of Jyv\"askyl\"a\\
- 947 Klaus Turowski, University of Augsburg\\
- 948 Gottfried Vossen, University of M\"unster\\
- 949 Mathias Weske, University of Potsdam\\
- 950 Robert Winter, University of St.\,Gallen\\
- 951 Heinz Z\"ullighoven, University of Hamburg}%

\guidelines Guidelines for Authors.

\guidelinesname \guidelinesbody

- 952 \newcommandtwoopt{\guidelines}[2]%
- 953 [\@guidelinesname][\@guidelinesbody]{%
- 954 \onecolumn
- 955 \edit@setup{#1}%
- 956 \l@editorialcontent
- 957 \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
- 958 \ignorespaces
- 959 #2
- 960 \onecolumn\ignorespacesafterend}%
- 961 \def\guidelinesname#1{%
- 962 \@bsphack\def\@guidelinesname{#1}\@esphack}%
- 963 \long\def\guidelinesbody#1{%
- 964 \@bsphack\def\@guidelinesbody{#1}\@esphack}%
- 965 \guidelinesname{Guidelines for Authors}%
- 966 \guidelinesbody{%
- 967 The journal serves to publish results of innovative research on all
- 968 facets of creating and analysing enterprise models and information
- 969 systems architectures. For research papers, it is required to
- 970 satisfy academic standards in terms of originality, level of
- 971 abstraction and justification of results. Experience reports serve
- 972 to describe and analyse success stories as well as practical
- 973 obstacles and resulting research challenges. Topics covered by the
- journal include, but are not restricted to the following subjects:
- 975 \begin{itemize}
- 976 \item Languages and Methods for Enterprise Modelling
- 977 \item Reusable Domain Models (Reference Models)
- 978 \item Analysis and Design Patterns
- 979 \item Modelling of Business Processes and Workflows
- 980 \item Process-Oriented System Architectures
- 981 \item Component-Oriented System Architectures
- 982 \item Conceptual Modelling for Component-Oriented Design
- 983 \item Ontologies for Enterprise Modelling
- 984 \item Modelling for Enterprise Application Integration
- 985 \item Modelling for Data Warehouses
- 986 \item Modelling to support Knowledge Management
- 987 \item Model-Driven Development
- 988 \item Aspect-Oriented Design
- 989 \item Agile Methods for Enterprise Modelling

```
990
      \end{itemize}
      Authors are asked for electronic submissions, which have to be sent
991
      to the editor in chief as e-mail attachment. In case of multiple
992
      authors, it is required to name one author who acts as contact
993
      person. The submission should include a cover page with the paper's
994
      title and the names, affiliations and e-mail addresses of all
995
      authors. The first page of the paper starts with the title and does
996
      not carry the authors' names. A manuscript must be either in MS
997
      Word or PDF format. It should not exceed 5.000 words -- this
      includes an abstract of around 150 words.
999
1000
      Submitted papers will be reviewed within no more than two months.
1001
      The review process is double blind. Authors who submit a manuscript
1002
      guarantee that it has not been published elsewhere, nor is intended
1003
1004
      to be published elsewhere. Papers that were accepted for
      publication must be written according to the style defined for the
      journal. A comprehensive description as well as a corresponding
1006
      Word template is provided on the web portal of the GI-SIG-MobIS
1007
1008
      (http://www.fg-mobis.gi-ev.de/).}
```

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.

```
1009 \def\maketitle{%
1010
       \begingroup
       \let\footnoterule\relax
1011
       \let\footnote\thanks
1012
       \let\thefootnote\relax
1013
       \def\@makefnmark{\textsuperscript{\@thefnmark}}%
1014
       \ifnum\col@number=\@ne
1015
           \@maketitle
1016
       \else
1017
           \twocolumn[\@maketitle]%
1018
1019
       \fi
       \global\@topnum\z@
1020
       \@thanks
1021
       \endgroup
1022
       \setcounter{footnote}{0}%
1023
1024 }%
```

\@maketitle This assembles and outputs the article title.

```
1025 \def\@maketitle{%
1026 \bgroup
1027 \normalfont
1028 \pretolerance=9999
1029 \parskip\z@
1030 \parindent\z@
```

```
\if!\@title!
1031
1032
        \else
        {\raggedright
1033
             \titlefont\ignorespaces
1034
             \strut\@title\strut\par}%
1035
        \vskip2mm\relax
1036
1037
        \fi
      \if!\@subtitle!
1038
1039
      \vskip5mm\relax
      \else
1040
         {\makebox[\textwidth][r]{%
1041
           \begin{minipage}{\textwidth-15mm}
1042
               \raggedright
1043
               \subtitlefont\ignorespaces
1044
               \strut\@subtitle\strut
1045
1046
             \end{minipage}}%
             \par}%
1047
        \vskip5mm\relax
1049
      \fi
      \if!\@authors!
1050
      \else
1051
      {\raggedright
1052
       \authorfont\ignorespaces
1053
       \strut\@authors
1054
1055
       \ifx\@email\@empty
            \ClassError{emisa}{There has to be one corresponding author!}{Please use \string\author*
1056
1057
       \else
           \ignorespaces\makebox[0pt][1]{\footnote{*~Corresponding author.\newline E-mail.\ \url{\@email.}
1058
1059
       \ifx\@acknowledgements\@empty
1060
1061
           \ignorespaces\makebox[0pt][1]{\footnote{\@acknowledgements}}%
1062
       \fi%
1063
       \strut\par}%
      \vskip2mm\relax
1065
      \fi
1066
      \if!\@addresses@list!
1067
      \else
1068
        {\raggedright
1069
         \footnotesize\ignorespaces
1070
          \strut\@addresses@list\strut\par}%
1071
        \vskip8mm\relax
1072
1073
      \fi
      \if!\@authornote!
1074
      \else
1075
        \let\thefootnote\relax
1076
        \ignorespaces\makebox[0pt][1]{\footnote{Note: \@authornote}}%
1077
1078
      \if!\@abstract!
1079
```

```
\else
1080
1081
        {\abstractfont\ignorespaces
        \strut\textup{Abstract.\ }\@abstract\strut\par}%
1082
        \vskip5mm\relax
1083
      \fi
1084
      \if!\@keywords!
1085
1086
        \vskip3mm\relax
1087
      \else
       {\raggedright
1088
        \ignorespaces
1089
        \strut Keywords.\ \@keywords\strut\par}
1090
        \vskip3mm\relax
1091
1092
      \fi
      \if!\@articleinfo@name!
1093
1094
        \if!\@articleinfo@rdate!
          \if!\@articleinfo@adate!
1095
             \vskip\baselineskip\relax
1096
          \fi
1097
1098
        \fi
      \else
1099
       {\raggedright
1100
        \small
1101
        \ignorespaces
1102
1103
        \strut Communicated by\ \@articleinfo@name.%
        \if!\@articleinfo@rdate!%
1104
        \else
1105
            \space Received\ \@articleinfo@rdate.%
1106
1107
        \fi%
        \if!\@articleinfo@adate!%
1108
        \else
1109
1110
            \space Accepted\ %
            \if!\@articleinfo@rounds!%
1111
1112
            \else%
1113
              \ifnum\@articleinfo@rounds=1
                 after \@articleinfo@rounds{} revision\space%
1114
              \else
1115
                 after \@articleinfo@rounds{} revisions\space%
1116
              \fi%
1117
            \fi%
1118
            on \@articleinfo@adate.
1119
        \fi%
1120
1121
        \strut\par}
        \vskip5mm\relax
1122
      \fi
1123
1124
      \egroup
1125 }
```

19.9.8 Sectioning

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

Syntax:

```
 \begin{tabular}{ll} $$ (\#3: indent) { (\#4: beforeskip) } { (\#5: afterskip) } { (\#6: style) } [ (\#7: toc-heading) ] { (\#8: heading) } $$ (\#8: heading) } $$ (\#8: heading) } $$ (\#8: heading) }$$ (\#8: heading) }
```

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.

⟨style⟩ Commands to set the output style. Since he June 1996 release of Late X 2_E 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, «\bfseries\MakeUppercase» 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.

```
1126 \def\@sect#1#2#3#4#5#6[#7]#8{%
1127 \ifnum #2>\c@secnumdepth
1128 \let\@svsec\@empty
1129 \else
1130 \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.

```
1131 \protected@edef\@svsec{\@seccntformat{#1}}%
1132 \fi
1133 \@tempskipa #5\relax
1134 \ifdim \@tempskipa>\z@
```

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

```
1135 \begingroup
1136 #6{\noindent%
```

```
\@hangfrom{\hskip #3\relax\@svsec}%
1137
               \raggedright
1138
               \interlinepenalty\@M
1139
               \strut#8\strut
1140
               \@@par}%
1141
        \endgroup
1142
         \csname #1mark\endcsname{#7}%
1143
        \addcontentsline{toc}{#1}{%
1144
           \ifnum #2>\c@secnumdepth \else
1145
             \protect\numberline{\csname the#1\endcsname}%
1146
          \fi
1147
          #7}%
1148
1149
      \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.

```
1150
         \def\@svsechd{%
           #6{\hskip #3\relax
1151
           \@svsec #8}%
1152
1153
          \csname #1mark\endcsname{#7}%
           \addcontentsline{toc}{#1}{%
1154
             \ifnum #2>\c@secnumdepth \else
1155
               \protect\numberline{\csname the#1\endcsname}%
1156
             \fi
1157
             #7}}%
1158
1159
      \fi
      \@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. 48.
1161 \def\@ssect#1#2#3#4#5{%
1162
         \@tempskipa #3\relax
         \ifdim \@tempskipa>\z@
1163
           \begingroup
1164
              #4{\noindent%
1165
                 \hskip #1\relax
1166
1167
                 \noindent%
1168
                 \parbox[t]{\linewidth}{%
                    \raggedright\interlinepenalty\@M#5\strut}\@@par}%
1169
           \endgroup
1170
1171
           \def\@svsechd{#4{\hskip #1\relax #5}}%
1172
         \fi
1173
         \@xsect{#3}}
1174
```

\@seccntformat This formats the counters (including any whitespace) of sectioning headers.

```
1175 \def\@seccntformat#1{%
1176 \csname the#1\endcsname%
1177 \relax\ \ }%
```

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

Syntax:

```
\begin{tabular}{l} $$ \extraction {$\langle \#1: name \rangle$ } {\langle \#2: level \rangle$ } $$ $$ {\langle \#3: indent \rangle$ } {\langle \#4: beforeskip \rangle$ } {\langle \#5: afterskip \rangle$ } $$ $$ {\langle \#6: style \rangle$} $$
```

See also the list on p. 48.

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.

```
1178 \def\section{\@startsection{section}%
                 1179
                        {1}{\z@}%
                        {-1\baselineskip plus -2mm minus -2mm}%
                 1180
                        {.5\baselineskip plus .25\baselineskip minus .125\baselineskip}%
                 1181
                 1182
                        {\sec@font}}%
   \subsection
                 1183 \def\subsection{\@startsection{subsection}%
                 1184
                        {2}{\z@}%
                 1185
                        {-3mm plus -2mm minus -1.5mm}%
                        {.25\baselineskip plus .125\baselineskip minus .125\baselineskip}%
                 1186
                 1187
                        {\sec@font}}%
\subsubsection
                 1188 \def\subsubsection{\@startsection{subsubsection}%
                 1189
                        {3}{\z@}%
                        {-3mm plus -2mm minus -1mm}%
                 1190
                        {1sp}%
                 1191
                        {\sec@font}}%
                 1192
    \paragraph
                 1193 \def\paragraph{\@startsection{paragraph}%
                 1194
                        {4}{\z@}%
                        {-1.5mm plus -1mm minus -0.75mm}%
                 1195
                        {1sp}%
                 1196
                        {\para@font}}%
                 1197
```

```
\subparagraph
```

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, ...

```
1203 \def\tableofcontents{%
      \onecolumn
1204
      \pagestyle{emisaeditorial}%
1205
      \footruleon
1206
      \title{Table of Contents}%
1207
      \null
1208
      \vskip10mm
1209
      \maketitle
1210
1211
      \vskip15mm
1212
      \bgroup
```

... then, after some more adjustments, the entries are read from $\langle jobname \rangle$. toc using $\ensuremath{\texttt{Qstarttoc}}$ and output.

\lambda l@article These two routines output content lines to the ToC.

\l@editorialcontent

```
1219 \newcommand*\l@article{%
1220 \if!\@subtitle!
1221 \addtocentry{\@tocauthor}{\thepage}{\@toctitle}%
1222 \else
1223 \addtocentry{\@tocauthor}{\thepage}{\@toctitle\ --\ \@tocsubtitle}%
1224 \fij%
1225 \newcommand*\l@editorialcontent{%
1226 \addtocentry{\@toctitle}{\thepage}{}}%
```

\addtocentry \addtocentry adds an entry using the typical EMISAJ layout to the contents listing of choice (default: ToC).

```
1227 \newcommand*\addtocentry[4][toc]{%
1228 \addtocontents{#1}{\string\emisa@tocentry{#2}{#3}{#4}}}%
```

\emisa@tocentry \emisa@tocentry typesets that entry.

```
1229 \newcommand{\emisa@tocentry}[3]{%
1230 \makebox[\textwidth][1]{%
1231 \parbox[t]{72.5mm-\@pnumwidth}{\raggedright\textbf{#1}}%
1232 \makebox[\@pnumwidth][r]{\textbf{#2}}%
1233 \hfill
1234 \parbox[t]{85mm}{\raggedright#3}}%
1235 \vspace{3mm}}%
```

The output of ToC entries of level -1 (\part) and above is suppressed.

```
1236 \setcounter{tocdepth}{-2}
```

19.9.10 A few abbreviations

```
\ie
                    Macros for a couple of abbreviations used quite frequently.
               \eg
                     1237 \newcommand*{\emisa@abbrv}[1]{#1\@\xspace}
               \cf
                     1238 \newcommand*{\emisaabbrv}[2]{\gdef#1{\emisa@abbrv{#2}}}
             \etal
                         \newcommand*{\emisa@initialism}[1]{\textsc{#1}\xspace}
                         \label{lem:command*} $$\operatorname{\mathcommand*{\mathcolorer}[2]_{\gdef\#1{\mathcolorer}[42})}$
     \emisa@abbrv
                         \newcommand*{\ie}{\emisa@abbrv{i.\,e.}}
                     1241
      \emisaabbrv
                         \newcommand*{\eg}{\emisa@abbrv{e.\,g.}}
                     1242
\emisa@initialism
                         \newcommand*{\cf}{\emisa@abbrv{cf.}}
                     1243
 \emisainitialism
                     1244 \newcommand*{\etal}{\emisa@abbrv{et~al.}}
              \OMG
                     1245 \newcommand*{\OMG}{\emisa@initialism{omg}}
              \BPM
                     1246 \newcommand*{\BPM}{\emisa@initialism{bpm}}
             \BPMN
                     1247 \newcommand*{\BPMN}{\emisa@initialism{bpmn}}
              \UML
                     1248 \newcommand*{\UML}{\emisa@initialism{uml}}
```

19.9.11 Other macros defined by EMISAJ

19.10 Bibliographies

The infrastructure for that is already present in LaTeX [18, ltbibl.dtx] so we have to tinker with just a couple of things.

\bibliography

biblatex 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.

```
1251 \def\@tempa#1\do\addbibresource#2\ni1{%
       \ifx\relax#2\relax
1252
       \else
1253
       1254
       \expandafter\@tempa\@preamblecmds\nil
1255
       \fi
1256
1257 }
   \expandafter\@tempa\@preamblecmds\do\addbibresource\nil
   \AfterEndPreamble{%
      \DeclareRobustCommand{\bibliography}[1]{%
1260
         \addbibresource{#1}}%
1261
1262 }%
1263 \renewcommand{\fps@figure}{htbp}
1264 \renewcommand{\fps@table}{htbp}
1265 \tolerance 1414
1266 \hbadness 1414
1267 \emergencystretch 1.5em
1268 \hfuzz 0.3pt
1269 \widowpenalty=10000
1270 \displaywidowpenalty=10000
1271 \clubpenalty=5000
1272 \interfootnotelinepenalty=9999
1273 \brokenpenalty=2000
1274 \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.

```
1275 ⟨/class⟩
1276 ⟨*biblatex⟩
```

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.

```
1277 (*bbx)
```

We start by declaring the file name and date.

```
1278 \ProvidesFile{emisa.bbx}[2016/07/18 2.1.1 EMISA bibliography style]
```

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

```
. . .
```

```
1279 \RequireBibliographyStyle{authoryear}
```

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

\bibitemlabel

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

```
1280 \newcommand*{\bibitemlabel}[1]{%
1281 \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.

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.

```
1289 }%
1290 \let\makelabel\bibitemlabel
```

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

```
1291 \tolerance 9999
1292 \emergencystretch 3em
1293 \hfuzz .5\p@
1294 \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.

```
1295 \clubpenalty 4000
1296 \@clubpenalty\clubpenalty
1297 \widowpenalty 4000
```

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

```
1298 \sfcode`\.\@m
```

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

```
1299 \renewcommand*{\finalnamedelim}{\addcomma\space}%
1300 }%
1301 {%
```

An empty thebibliography environment will cause a warning.

```
1302 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1303 \endlist}
```

```
1304 {\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 ,Äöinfinite' (> 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.

1305 \renewcommand*{\newunitpunct}{\space}

\finentrypunct

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

1306 \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.

```
1307 \renewcommand*{\bibsetup}{%

1308 \interlinepenalty=5000\relax
```

```
1309 \widowpenalty=10000\relax
1310 \clubpenalty=10000\relax
1311 \biburlsetup
1312 \flushbottom
1313 \frenchspacing
1314 \sloppy}
```

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

- > \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.

```
1315 \renewcommand*{\biburlsetup}{%
      \Urlmuskip=0mu plus 2mu\relax
1316
      \mathchardef\UrlBreakPenalty=200\relax
1317
      \mathchardef\UrlBigBreakPenalty=100\relax
1318
      \mathchardef\UrlEmergencyPenalty=9000\relax
1319
1320
      \appto\UrlSpecials{%
        \do\0{\mathchar`\0\penalty\UrlEmergencyPenalty}%
1321
        \do\1{\mathchar`\1\penalty\UrlEmergencyPenalty}%
1322
        \do\2{\mathchar`\2\penalty\UrlEmergencyPenalty}%
1323
        \do\3{\mathchar`\3\penalty\UrlEmergencyPenalty}%
1324
1325
        \do\4{\mathchar`\4\penalty\UrlEmergencyPenalty}%
        \do\5{\mathchar`\5\penalty\UrlEmergencyPenalty}%
1326
        \do\6{\mathchar`\6\penalty\UrlEmergencyPenalty}%
1328
        \do\7{\mathchar`\7\penalty\UrlEmergencyPenalty}%
        \do\8{\mathchar`\8\penalty\UrlEmergencyPenalty}%
1329
        \do\9{\mathchar`\9\penalty\UrlEmergencyPenalty}}%
1330
      \def\UrlBreaks{%
1331
```

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} \[\langle format entry type \rangle] \{\langle format \rangle alias \rangle} \] 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.

\bibxstring[$\langle wrapper \rangle$]{ $\langle key \rangle$ } 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.

```
1337 \DeclareFieldFormat{citetitle}{#1}
1338 \DeclareFieldFormat[article]{citetitle}{#1\isdot}
1339 \DeclareFieldFormat[inbook]{citetitle}{#1\isdot}
1340 \DeclareFieldFormat[incollection]{citetitle}{#1\isdot}
1341 \DeclareFieldFormat[inproceedings]{citetitle}{#1\isdot}
1342 \DeclareFieldFormat[patent]{citetitle}{#1\isdot}
1343 \DeclareFieldFormat[thesis]{citetitle}{#1\isdot}
1344 \DeclareFieldFormat[unpublished]{citetitle}{#1\isdot}
The following field formats are used for output in bibliographies.
1345 \DeclareFieldFormat{booktitle}{#1\isdot}
1346 \DeclareFieldFormat{journaltitle}{#1}
```

1347 \DeclareFieldFormat{issuetitle}{#1}

```
1348 \DeclareFieldFormat{maintitle}{#1}
1349 \DeclareFieldFormat{title}{#1}
1350 \DeclareFieldFormat[article]{title}{#1\isdot}
1351 \DeclareFieldFormat[inbook]{title}{#1\isdot}
1352 \DeclareFieldFormat[incollection]{title}{#1\isdot}
1353 \DeclareFieldFormat[inproceedings]{title}{#1\isdot}
1354 \DeclareFieldFormat[patent]{title}{#1\isdot}
1355 \DeclareFieldFormat[thesis]{title}{#1\isdot}
    \DeclareFieldFormat[unpublished]{title}{#1\isdot}
1357 \DeclareFieldFormat{url}{\url{#1}}
1358 \DeclareFieldFormat{urldate}{\bibstring{urlseen}\addcolon\space#1}
1359 \DeclareFieldAlias[misc]{note}{urldate}
1360 \DeclareFieldAlias[report]{note}{urldate}
1361 \DeclareFieldAlias[thesis]{note}{urldate}
1362 \DeclareFieldFormat{version}{\bibcpstring{version}~#1}
1363 \DeclareFieldFormat{volume}{\bibcpstring{volume}~#1}
1364 \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.

\newbibmacro{\(\lamble\)}[\(\lambda\)][\(\lambda\)]{\(\lambda\)} defines a macro to be executed via \usebibmacro later. The syntax and argument handling of this command is very similar to \newcommand except that

- > \(\lambda name \rangle \) 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.

 $\ensuremath{\mbox{\constraint}}[\langle \ensuremath{\mbox{\constraint}}][\langle \ensuremath{\mbox{\constraint}}]\{\langle \ensuremath{\mbox{\constraint}}]\}$ is similar to \newbibmacro but redefines <math>\langle \ensuremath{\mbox{\constraint}}\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

```
1365 \@ifpackagelater{biblatex}{2016/03/03}%
```

Now for the latest versions

```
1371 {\namepartgiveni}%
1372 {\namepartprefix}%
1373 {\namepartsuffix}%
1374 \usebibmacro{name:andothers}}%
1375 }%
```

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)
1376 {%
1377
       \DeclareNameFormat{emisa:names}{%
       \usebibmacro{name:last-firstinit}{#1}{#4}{#5}{#7}%
1378
       \usebibmacro{name:andothers}}%
1379
1380 }%
```

This bibmacro formats the names of authors, editors or translators.

me:last-firstinit bibmacro Again we check for the biblatex version. This could be neglected for this macro. However, it is clearer and maybe better for future development.

```
1381 \@ifpackagelater{biblatex}{2016/03/03}%
```

Now for the latest versions

```
1382 {%
1383 \newbibmacro*{name:family-giveninit}[4]{%
1384 \usebibmacro{name:delim}{#2#3#1}%
1385 \usebibmacro{name:hook}{#2#3#1}%
Formatting: name prefix ('von part'), ...
```

```
1386 \ifdefvoid{#3}{}{%
1387     \mkbibnameprefix{#3}\%\isdot
1388     \ifprefchar\% replaces \ifpunctmark{'}\%
1389     {}\%
1390     {\ifuseprefix\{\addhighpenspace\}\{\addlowpenspace\}\}\%
... last name ...
1391     \mkbibnamefamily{\pi1\\addhighpenspace\}\
... name affix ('junior part'), ...
```

 $\label{limits} \label{limits} $$ \ifdef void $$\#4${\addlow penspace\mbox{$\mathbb{K}$}}$$

```
... and first name (initials).
                     \ifdefvoid{#2}{}{\mkbibnamegiven{#2}\isdot}%
              1393
                     }%
              1394
              1395 }%
             and now for the older versions
              1396 {%
                    \newbibmacro*{name:last-firstinit}[4]{%
              1397
                    \usebibmacro{name:delim}{#2#3#1}%
              1398
                    \usebibmacro{name:hook}{#2#3#1}%
              1399
             Formatting: name prefix ('von part'), ...
                    \ifblank{#3}{}{%
              1400
              1401
                      \mkbibnameprefix{#3}%\isdot
                      \ifpunctmark{'}%
              1402
              1403
              1404
                         {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
             ... last name ...
                    \mkbibnamelast{#1}\addhighpenspace%
              1405
             ... name affix ('junior part'), ...
                    ... and first name (initials).
                    \ifblank{#2}{}{\mkbibnamefirst{#2}\isdot}%
              1408 }%
              1409 }%
             This outputs the «in:» tag, as in bibliography entries for proceedings, collections, edited books and so on.
in: bibmacro
              1410 \renewbibmacro*{in:}{%
                    \printtext{%
              1411
                      \bibcpstring{in}%
              1412
                      \intitlepunct}}
              1413
```

Generic bibliography macros In this subsection the generic bibmacros outputting the typical name fields in bibliographies are customised.

author bibmacro

```
1414 \renewbibmacro*{author}{%
1415 \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
1416 {\printnames{author}%
1417 \iffieldundef{authortype}
1418 {}
1419 {\setunit{\addspace}%
1420 \usebibmacro{authorstrg}}}
1421 {}}
```

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

```
1461
                                      \appto\abx@tempb{\clearname{translator}}}
                             1462
                                     {}%
                                   \ifnamesequal{editor}{commentator}
                             1463
                                     {\appto\abx@tempa{co}%
                             1464
                                      \appto\abx@tempb{\clearname{commentator}}}
                             1465
                                     {\ifnamesequal{editor}{annotator}
                             1466
                                         {\appto\abx@tempa{an}%
                             1467
                                 \appto\abx@tempb{\clearname{annotator}}}
                             1468
                                   \ifnamesequal{editor}{introduction}
                             1470
                                     {\appto\abx@tempa{in}%
                             1471
                                      \appto\abx@tempb{\clearname{introduction}}}
                             1472
                                      {\ifnamesequal{editor}{foreword}
                             1473
                                         {\appto\abx@tempa{fo}%
                             1474
                                 \appto\abx@tempb{\clearname{foreword}}}
                             1475
                             1476
                                         {\ifnamesequal{editor}{afterword}
                                            {\appto\abx@tempa{af}%
                             1477
                                             \appto\abx@tempb{\clearname{afterword}}}
                             1479
                                            {}}}%
                                   \ifbibxstring{\abx@tempa}
                             1480
                                     {\bibstring[\mkbibparens]{\abx@tempa}%
                             1481
                                      \abx@tempb}
                             1482
                                     {\usebibmacro{editorstrg}}}%
                             1483
                             1484 \newbibmacro*{emisa:url+urldate}{%
                                   \iffieldundef{url}
                             1485
                                     {\printfield{howpublished}}
                             1486
                                     {\printfield{url}}
                             1487
                             1488
                                   \setunit*{\addperiod\space}\newblock
                                   \iffieldundef{urlyear}
                             1489
                             1490
                                     {\printfield{note}}
                                     {\printtext[urldate]{\printurldate}}}
                             1491
isa:url+type+version+urldate
                             1492 \newbibmacro*{emisa:url+type+version+urldate}{%
                                   \iffieldundef{url}%
                             1493
                                     {\printfield{url}}
                             1494
                                     {\printfield{howpublished}}%
                             1495
                                   \setunit*{\addcomma\space}\newblock
                             1496
                                   \printfield{type}%
                             1497
                                   \setunit*{\addcomma\space}\newblock
                             1498
                                   \printfield{version}%
                             1499
                                   \setunit*{\addcomma\space}\newblock
                             1500
                             1501
                                   \iffieldundef{urlyear}
                                     {\printfield{note}}
                             1502
                                     {\printtext[urldate]{\printurldate}}}
                             1503
```

emisa:url+urldate bibmacro

bibmacro

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

```
1504 \renewbibmacro*{finentry}{}%
```

article bibdriver

- 1505 \DeclareBibliographyDriver{article}{%
- 1506 \usebibmacro{bibindex}%
- 1507 \usebibmacro{begentry}%
- 1508 \usebibmacro{author/translator+others}%
- 1509 \setunit{\labelnamepunct}\newblock
- 1510 \usebibmacro{title}%
- 1511 \newunit
- 1512 \printlist{language}%
- 1513 \newunit\newblock
- 1514 \usebibmacro{bytranslator+others}%
- 1515 \newunit\newblock
- 1516 \printfield{version}%
- 1517 \setunit{\addperiod\space}%
- 1518 \usebibmacro{in:}%
- 1519 \usebibmacro{journal+issuetitle}%
- 1520 \newunit\newblock
- 1521 \usebibmacro{editor+others}%
- 1522 \newunit\newblock
- 1523 \usebibmacro{note+pages}%
- 1524 \newunit\newblock
- 1525 \iftoggle{bbx:isbn}
- 1526 {\printfield{issn}}
- 1527 {}%
- 1528 \newunit\newblock
- 1529 \usebibmacro{doi+eprint+url}%
- 1530 \newunit\newblock
- 1531 \usebibmacro{addendum+pubstate}%
- 1532 \newunit\newblock
- 1533 \usebibmacro{pageref}%
- 1534 \usebibmacro{finentry}}

book bibdriver

- 1535 \DeclareBibliographyDriver{book}{%
- 1536 \usebibmacro{bibindex}%
- 1537 \usebibmacro{begentry}%
- 1538 \usebibmacro{author/editor+others/translator+others}%
- 1539 \setunit{\labelnamepunct}\newblock
- 1540 \usebibmacro{maintitle+title}%
- 1541 \newunit
- 1542 \printlist{language}%

- 1543 \newunit\newblock
- 1544 \usebibmacro{editor+others}%
- 1545 \setunit{\addcomma\space}%
- 1546 \newblock
- 1547 \printfield{edition}%
- 1548 \setunit{\addperiod\space}%
- 1549 \newblock
- 1550 \usebibmacro{series+number}%
- 1551 \newunit
- 1552 \newblock
- 1553 \iffieldundef{maintitle}
- 1554 {\printfield{volume}%
- 1555 \printfield{part}}
- 1556 {}%
- 1557 \newunit
- 1558 \printfield{volumes}%
- 1559 \setunit{\addperiod\space}%
- 1560 \newblock
- 1561 \printfield{note}%
- 1562 \setunit{\addperiod\space}%
- 1563 \newblock
- 1564 \usebibmacro{publisher+location+date}%
- 1565 \newunit\newblock
- 1566 \usebibmacro{chapter+pages}%
- 1567 \newunit
- 1568 \printfield{pagetotal}%
- 1569 \newunit\newblock
- 1570 \iftoggle{bbx:isbn}
- 1571 {\printfield{isbn}}
- 1572 {}%
- 1573 \newunit\newblock
- 1574 \usebibmacro{doi+eprint+url}%
- 1575 \newunit\newblock
- 1576 \usebibmacro{addendum+pubstate}%
- 1577 \newunit\newblock
- 1578 \usebibmacro{pageref}%
- 1579 \usebibmacro{finentry}}

booklet bibdriver

- 1580 \DeclareBibliographyDriver{booklet}{%
- 1581 \usebibmacro{bibindex}%
- 1582 \usebibmacro{begentry}%
- 1583 \usebibmacro{author/editor+others/translator+others}%
- 1584 \setunit{\labelnamepunct}\newblock
- 1585 \usebibmacro{title}%
- 1586 \newunit
- 1587 \printlist{language}%
- 1588 \newunit\newblock
- 1589 \usebibmacro{editor+others}%

- 1590 \newunit\newblock
- 1591 \printfield{howpublished}%
- 1592 \newunit\newblock
- 1593 \printfield{type}%
- 1594 \newunit\newblock
- 1595 \printfield{note}%
- 1596 \newunit\newblock
- 1597 \usebibmacro{location+date}%
- 1598 \newunit\newblock
- 1599 \usebibmacro{chapter+pages}%
- 1600 \newunit
- 1601 \printfield{pagetotal}%
- 1602 \newunit\newblock
- 1603 \usebibmacro{doi+eprint+url}%
- 1604 \newunit\newblock
- 1605 \usebibmacro{addendum+pubstate}%
- 1606 \newunit\newblock
- 1607 \usebibmacro{pageref}%
- 1608 \usebibmacro{finentry}}

collection bibdriver

- 1609 \DeclareBibliographyDriver{collection}{%
- 1610 \usebibmacro{bibindex}%
- 1611 \usebibmacro{begentry}%
- 1612 \usebibmacro{editor+others}%
- 1613 \setunit{\labelnamepunct}\newblock
- 1614 \usebibmacro{maintitle+title}%
- 1615 \newunit
- 1616 \printlist{language}%
- 1617 \newunit\newblock
- 1618 \usebibmacro{editor+others}%
- 1619 \setunit{\addcomma\space}%
- 1620 \newblock
- 1621 \printfield{edition}%
- 1622 \setunit{\addperiod\space}%
- 1623 \newblock
- 1624 \usebibmacro{series+number}%
- 1625 \newunit
- 1626 \newblock
- 1627 \iffieldundef{maintitle}
- 1628 {\printfield{volume}%
- 1629 \printfield{part}}
- 1630 {}%
- 1631 \newunit
- 1632 \printfield{volumes}%
- 1633 \setunit{\addperiod\space}%
- 1634 \newblock
- 1635 \printfield{note}%
- 1636 \setunit{\addperiod\space}%

```
1637
      \newblock
      \usebibmacro{publisher+location+date}%
1638
      \newunit\newblock
1639
      \usebibmacro{chapter+pages}%
1640
      \newunit
1641
      \printfield{pagetotal}%
1642
1643
      \newunit\newblock
      \iftoggle{bbx:isbn}
1644
         {\printfield{isbn}}
1645
1646
         {}%
      \newunit\newblock
1647
      \usebibmacro{doi+eprint+url}%
1648
1649
      \newunit\newblock
      \usebibmacro{addendum+pubstate}%
1650
1651
      \newunit\newblock
1652
      \usebibmacro{pageref}%
1653
      \usebibmacro{finentry}}
```

inbook bibdriver

1654 \DeclareBibliographyDriver{inbook}{% \usebibmacro{bibindex}% 1655 1656 \usebibmacro{begentry}% \usebibmacro{author/translator+others}% 1657 \setunit{\labelnamepunct}\newblock 1658 1659 \usebibmacro{title}% \newunit 1660 \printlist{language}% 1661 1662 \newunit\newblock \usebibmacro{in:}% 1663 \usebibmacro{bybookauthor}% 1664 \newunit\newblock 1665 \usebibmacro{maintitle+booktitle}% 1666 \newunit\newblock 1667 \usebibmacro{editor+others}% 1668 \setunit{\addcomma\space}% 1669 1670 \newblock \printfield{edition}% 1671 \newunit 1672 \iffieldundef{maintitle} 1673 {\printfield{volume}% 1674 \printfield{part}} 1675 {}% 1676 \newunit 1677 \printfield{volumes}% 1678 1679 \newunit\newblock \usebibmacro{series+number}% 1680 \newunit\newblock 1681 1682 \printfield{note}%

\newunit\newblock

1683

```
\usebibmacro{publisher+location+date}%
1684
       \newunit\newblock
1685
       \usebibmacro{chapter+pages}%
1686
       \newunit\newblock
1687
       \iftoggle{bbx:isbn}
1688
         {\printfield{isbn}}
1689
1690
       \newunit\newblock
1691
       \usebibmacro{doi+eprint+url}%
1692
       \newunit\newblock
1693
       \usebibmacro{addendum+pubstate}%
1694
       \newunit\newblock
1695
1696
       \usebibmacro{pageref}%
       \usebibmacro{finentry}}
1697
1698 \DeclareBibliographyDriver{incollection}{%
1699
       \usebibmacro{bibindex}%
       \usebibmacro{begentry}%
       \usebibmacro{author/translator+others}%
1701
       \setunit{\labelnamepunct}\newblock
1702
       \usebibmacro{title}%
1703
       \setunit{\addcomma\space}%
1704
       \printlist{language}%
1705
Period after title, if any
       \setunit{\addperiod\space}%
1706
       \usebibmacro{in:}%
1707
       \usebibmacro{editor+others}%
1708
       \setunit{\addspace}%
1709
       \newblock
1710
1711
       \usebibmacro{byauthor}%
1712
       \newblock
       \usebibmacro{maintitle+booktitle}%
1713
Colon after maintitle, if any
       \newblock
1714
1715
       \printfield{edition}%
1716
       \setunit{\addperiod\space}%
       \newblock
1717
       \usebibmacro{series+number}%
1718
1719
       \newunit
       \newblock
1720
       \iffieldundef{maintitle}
1721
         {\printfield{volume}%
1722
1723
          \printfield{part}}
1724
         {}%
```

incollection bibdriver

1725

1726

\newunit

\printfield{volumes}%

- 1727 \setunit{\addperiod\space}%
- 1728 \newblock
- 1729 \printfield{note}%
- 1730 \setunit{\addperiod\space}%
- 1731 \newblock
- 1732 \usebibmacro{publisher+location+date}%
- 1733 \setunit*{\addcomma\space}%
- 1734 \newblock
- 1735 \usebibmacro{chapter+pages}%
- 1736 \newunit\newblock
- 1737 \iftoggle{bbx:isbn}
- 1738 {\printfield{isbn}}
- 1739 {}%
- 1740 \newunit\newblock
- 1741 \usebibmacro{doi+eprint+url}%
- 1742 \newunit\newblock
- 1743 \usebibmacro{addendum+pubstate}%
- 1744 \newunit\newblock
- 1745 \usebibmacro{pageref}%
- 1746 \usebibmacro{finentry}}

inproceedings bibdriver

- 1747 \DeclareBibliographyDriver{inproceedings}{%
- 1748 \usebibmacro{bibindex}%
- 1749 \usebibmacro{begentry}%
- 1750 \usebibmacro{author/translator+others}%
- 1751 \setunit{\labelnamepunct}%
- 1752 \newblock
- 1753 \usebibmacro $\{\text{title}\}\%$
- 1754 \setunit{\addcomma\space}%
- 1755 \printlist{language}%
- 1756 \newblock
- 1757 \usebibmacro{byauthor}%

Period after title, if any

- 1758 \setunit{\addperiod\space}%
- 1759 \usebibmacro{in:}%
- 1760 \usebibmacro{editor+others}%
- 1761 \setunit{\addspace}%
- 1762 \newblock
- 1763 \usebibmacro{byauthor}%
- 1764 \newblock
- 1765 \usebibmacro{maintitle+booktitle}%

Colon after maintitle, if any

- 1766 \newblock
- 1767 \usebibmacro{event+venue+date}%
- 1768 \setunit{\addperiod\space}%
- 1769 \newblock

```
\usebibmacro{series+number}%
1770
1771
      \newunit
      \newblock
1772
      \iffieldundef{maintitle}
1773
        {\printfield{volume}%
1774
         \printfield{part}}
1775
1776
        {}%
      \newunit
1777
      \printfield{volumes}%
1778
      \setunit{\addperiod\space}%
1779
      \newblock
1780
      \printfield{note}%
1781
1782
      \setunit{\addperiod\space}%
      \newblock
1783
1784
      \printlist{organization}%
1785
      \setunit{\addperiod\space}%
1786
      \usebibmacro{publisher+location+date}%
1787
1788
      \setunit{\addcomma\space}%
      \newblock
1789
      \usebibmacro{chapter+pages}%
1790
      \newunit\newblock
1791
      \iftoggle{bbx:isbn}
1792
        {\printfield{isbn}}
1793
1794
1795
      \newunit\newblock
      \usebibmacro{doi+eprint+url}%
1796
1797
      \newunit\newblock
      \usebibmacro{addendum+pubstate}%
1798
      \newunit\newblock
1799
      \usebibmacro{pageref}%
1800
      \usebibmacro{finentry}}
1801
1802
    \DeclareBibliographyDriver{manual}{%
      \usebibmacro{bibindex}%
1803
      \usebibmacro{begentry}%
1804
1805
      \usebibmacro{author/editor}%
      \setunit{\labelnamepunct}\newblock
      \usebibmacro{title}%
1807
      \newunit
1808
      \printlist{language}%
1809
      \newunit\newblock
1810
      \usebibmacro{byeditor}%
1811
      \setunit{\addcomma\space}%
1812
```

manual bibdriver

1813

1814

1815

1816

\newblock

\printfield{edition}%
\newunit\newblock

\usebibmacro{series+number}%

```
1817 \newunit\newblock
```

- 1818 \printfield{type}%
- 1819 \newunit
- 1820 \printfield{version}%
- 1821 \newunit
- 1822 \printfield{note}%
- 1823 \newunit\newblock
- 1824 \printlist{organization}%
- 1825 \newunit
- 1826 \usebibmacro{publisher+location+date}%
- 1827 \newunit\newblock
- 1828 \usebibmacro{chapter+pages}%
- 1829 \newunit
- 1830 \printfield{pagetotal}%
- 1831 \newunit\newblock
- 1832 \iftoggle{bbx:isbn}
- 1833 {\printfield{isbn}}
- 1834 {}%
- 1835 \newunit\newblock
- 1836 \usebibmacro{doi+eprint+url}%
- 1837 \newunit\newblock
- 1838 \usebibmacro{addendum+pubstate}%
- 1839 \newunit\newblock
- 1840 \usebibmacro{pageref}%
- 1841 \usebibmacro{finentry}}

misc bibdriver

- 1842 \DeclareBibliographyDriver{misc}{%
- 1843 \usebibmacro{bibindex}%
- 1844 \usebibmacro{begentry}%
- 1845 \usebibmacro{author/editor+others/translator+others}%
- 1846 \setunit{\labelnamepunct}\newblock
- 1847 \usebibmacro{title}%
- 1848 \newunit
- 1849 \printlist{language}%

Period after title, if any

- 1850 \setunit{\addperiod\space}%
- 1851 \usebibmacro{emisa:url+urldate}%
- 1852 \usebibmacro{finentry}}

online bibdriver

- 1853 \DeclareBibliographyDriver{online}{%
- 1854 \usebibmacro{bibindex}%
- 1855 \usebibmacro{begentry}%
- 1856 \usebibmacro{author/editor+others/translator+others}%
- 1857 \setunit{\labelnamepunct}\newblock
- 1858 \usebibmacro{title}%
- 1859 \newunit

```
\printlist{language}%
                  1860
                         \newunit\newblock
                  1861
                         \usebibmacro{editor+others}%
                  1862
                         \newunit\newblock
                  1863
                         \printfield{version}%
                  1864
                         \newunit
                  1865
                         \printfield{note}%
                  1866
                         \newunit\newblock
                  1867
                         \printlist{organization}%
                  1868
                         \newunit\newblock
                  1869
                         \usebibmacro{date}%
                  1870
                         \newunit\newblock
                  1871
                  1872
                         \iftoggle{bbx:eprint}
                           {\usebibmacro{eprint}}
                  1873
                  1874
                           {}%
                  1875
                         \newunit\newblock
                  1876
                         \usebibmacro{url+urldate}%
                  1877
                         \newunit\newblock
                  1878
                         \usebibmacro{addendum+pubstate}%
                         \newunit\newblock
                  1879
                         \usebibmacro{pageref}%
                  1880
                  1881
                         \usebibmacro{finentry}}
patent bibdriver
                  1882 \DeclareBibliographyDriver{patent}{%
                         \usebibmacro{bibindex}%
                  1883
                  1884
                         \usebibmacro{begentry}%
                  1885
                         \usebibmacro{author}%
                         \setunit{\labelnamepunct}\newblock
                  1886
                         \usebibmacro{title}%
                  1887
                         \newunit
                  1888
                         \printlist{language}%
                  1889
                         \newunit\newblock
                  1890
                         \printfield{type}%
                  1891
                         \setunit*{\addspace}%
                  1892
                  1893
                         \printfield{number}%
                         \iflistundef{location}
                  1894
                  1895
                           {\setunit*{\addspace}%
                  1896
                            \printtext[parens]{%
                  1897
                              \printlist[][-\value{listtotal}]{location}}}%
                  1898
                         \newunit\newblock
                  1899
                         \usebibmacro{byholder}%
                  1900
                         \newunit\newblock
                  1901
                  1902
                         \printfield{note}%
                         \newunit\newblock
                  1903
                         \usebibmacro{date}%
                  1904
                         \newunit\newblock
                  1905
                         \iftoggle{bbx:url}
                  1906
```

```
{\usebibmacro{url+urldate}}
                       1907
                       1908
                                {}%
                              \newunit\newblock
                       1909
                              \usebibmacro{addendum+pubstate}%
                       1910
                              \newunit\newblock
                       1911
                              \usebibmacro{pageref}%
                       1912
                       1913
                              \usebibmacro{finentry}}
 periodical bibdriver
                       1914 \DeclareBibliographyDriver{periodical}{%
                       1915
                              \usebibmacro{bibindex}%
                              \usebibmacro{begentry}%
                       1916
                              \usebibmacro{editor}%
                       1917
                              \setunit{\labelnamepunct}\newblock
                       1918
                              \usebibmacro{title+issuetitle}%
                       1919
                       1920
                              \newunit
                       1921
                              \printlist{language}%
                              \newunit\newblock
                       1922
                       1923
                              \usebibmacro{byeditor}%
                              \newunit\newblock
                       1924
                              \printfield{note}%
                       1925
                              \newunit\newblock
                       1926
                              \iftoggle{bbx:isbn}
                       1927
                                {\printfield{issn}}
                       1928
                       1929
                                {}%
                              \newunit\newblock
                       1930
                       1931
                              \usebibmacro{doi+eprint+url}%
                       1932
                              \newunit\newblock
                              \usebibmacro{addendum+pubstate}%
                       1933
                              \newunit\newblock
                       1934
                              \usebibmacro{pageref}%
                       1935
                              \usebibmacro{finentry}}
                       1936
proceedings bibdriver
                       1937 \DeclareBibliographyDriver{proceedings}{%
                       1938
                              \usebibmacro{bibindex}%
                              \usebibmacro{begentry}%
                       1939
                              \usebibmacro{editor+others}%
                       1940
                       1941
                              \setunit{\labelnamepunct}\newblock
                       1942
                              \usebibmacro{maintitle+title}%
                              \newunit
                       1943
                              \printlist{language}%
                       1944
                              \newunit\newblock
                       1945
                       1946
                              \usebibmacro{event+venue+date}%
                              \newunit\newblock
                       1947
                              \usebibmacro{editor+others}%
                       1948
                       1949
                              \setunit{\addperiod\space}%
                              \newblock
                       1950
```

```
\usebibmacro{series+number}%
1951
       \newunit
1952
       \newblock
1953
       \iffieldundef{maintitle}
1954
         {\printfield{volume}%
1955
          \printfield{part}}
1956
1957
         {}%
1958
       \newunit
       \printfield{volumes}%
1959
       \setunit{\addperiod\space}%
1960
       \newblock
1961
       \printfield{note}%
1962
       \setunit{\addperiod\space}%
1963
       \newblock
1964
1965
       \printlist{organization}%
1966
       \setunit{\addperiod\space}%
1967
       \usebibmacro{publisher+location+date}%
1968
1969
       \newblock
       \usebibmacro{chapter+pages}%
1970
       \newunit
1971
       \printfield{pagetotal}%
1972
       \newunit\newblock
1973
1974
       \iftoggle{bbx:isbn}
         {\printfield{isbn}}
1975
         {}%
1976
       \newunit\newblock
1977
       \usebibmacro{doi+eprint+url}%
1978
       \newunit\newblock
1979
       \usebibmacro{addendum+pubstate}%
1980
1981
       \newunit\newblock
       \usebibmacro{pageref}%
1982
1983
       \usebibmacro{finentry}}
Technical reports
 author
 title
 year
 type
 number
 institution
 address
 url
 note
1984 \DeclareBibliographyDriver{report}{%
```

\usebibmacro{bibindex}%

report bibdriver

1985

- 1986 \usebibmacro{begentry}%
- 1987 \usebibmacro{author}%
- 1988 \setunit{\labelnamepunct}\newblock
- 1989 \usebibmacro{title}%
- 1990 \setunit{\addperiod\space}%
- 1991 \printfield{type}%
- 1992 \newunit
- 1993 \printfield{number}%
- 1994 \setunit{\addperiod\space}%
- 1995 \printlist{institution}%
- 1996 \setunit*{\addperiod\space}\newblock
- 1997 \printlist{location}%
- 1998 \setunit*{\addperiod\space}\newblock
- 1999 \printfield{url}%
- 2000 \setunit*{\addperiod\space}\newblock
- 2001 \printfield{note}%
- 2002 \newunit\newblock
- 2003 \usebibmacro{finentry}}%
- 2004 \DeclareBibliographyAlias{techreport}{report}%

thesis bibdriver

- 2005 \DeclareBibliographyDriver{thesis}{%
- 2006 \usebibmacro{bibindex}%
- 2007 \usebibmacro{begentry}%
- 2008 \usebibmacro{author}%
- 2009 \setunit{\labelnamepunct}\newblock
- 2010 \usebibmacro{title}%
- 2011 \newunit
- 2012 \printlist{language}%

Period after title, if any

- 2013 \setunit{\addperiod\space}%
- 2014 \printfield{type}%
- 2015 \setunit*{\addcomma\space}%
- 2016 \usebibmacro{institution+location+date}%
- 2017 \setunit{\addperiod\space}%
- 2018 \usebibmacro{chapter+pages}%
- 2019 \newunit
- 2020 \printfield{pagetotal}%
- 2021 \newunit\newblock
- ${\tt 2022} \quad {\tt \printfield\{url\}\%}$
- 2023 \setunit*{\addperiod\space}\newblock
- 2024 \printfield{note}%
- 2025 \newunit\newblock
- 2026 \usebibmacro{addendum+pubstate}%
- 2027 \newunit\newblock
- 2028 \usebibmacro{pageref}%
- 2029 \usebibmacro{finentry}}

unpublished bibdriver

intitle+booktitle

ournal+issuetitle bibmacro

bibmacro

```
2030 \DeclareBibliographyDriver{unpublished}{%
      \usebibmacro{bibindex}%
2031
2032
      \usebibmacro{begentry}%
      \usebibmacro{author}%
2033
      \setunit{\labelnamepunct}\newblock
2034
      \usebibmacro{title}%
2035
      \newunit
2036
      \printlist{language}%
2037
      \newunit\newblock
2038
      \printfield{howpublished}%
2039
      \newunit\newblock
2040
2041
      \printfield{note}%
      \newunit\newblock
      \usebibmacro{date}%
2043
      \newunit\newblock
2044
2045
      \iftoggle{bbx:url}
        {\usebibmacro{url+urldate}}
2046
         {}%
2047
      \newunit\newblock
2048
      \usebibmacro{addendum+pubstate}%
2049
2050
      \newunit\newblock
      \usebibmacro{pageref}%
2051
      \usebibmacro{finentry}}
2052
2053 \renewbibmacro*{maintitle+booktitle}{%
      \iffieldundef{maintitle}
2054
2055
       {\usebibmacro{maintitle}%
2056
        \addspace
2057
        \newblock
2058
        \iffieldundef{volume}
2059
          {}
2060
2061
          {\printfield{volume}%
           \printfield{part}%
2062
           \addspace
2063
2064
      \usebibmacro{booktitle}%
2065
      \newunit}
2066
2067 \renewbibmacro*{journal+issuetitle}{%
2068
      \usebibmacro{journal}%
      \setunit*{\addspace}%
2069
      \iffieldundef{series}
2070
         {}
2071
2072
         {\new unit}
```

```
\printfield{series}%
2073
          \setunit{\addspace}}%
2074
      \printfield{volume}%
2075
2076
      \printfield[parens]{number}%
      \setunit{\addcomma\space}%
2077
      \printfield{eid}%
2078
2079
      \setunit{\addspace}%
      \usebibmacro{issue+date}%
2080
      \setunit{\addcolon\space}%
2081
      \usebibmacro{issue}%
2082
      \newunit}
2083
```

isa:doi+eprint+url

bibmacro

```
\newbibmacro*{emisa:doi+eprint+url}{%
      \iftoggle{bbx:doi}
2085
         {\printfield{doi}}
2086
2087
      \newunit\newblock
2088
      \iftoggle{bbx:eprint}
2089
         {\usebibmacro{eprint}}
2090
2091
      \newunit\newblock
2093
      \iftoggle{bbx:url}
         {\usebibmacro{emisa:url+urldate}}
2094
2095
```

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

```
2096 \renewbibmacro*{author}{%
      \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
2097
       {\ifthenelse{\iffieldequals{fullhash}{\bbx@lasthash}\AND
2098
                     \NOT\iffirstonpage\AND
2099
2100
                     \(\NOT\boolean{bbx@inset}\OR
                     \iffieldequalstr{entrysetcount}{1}\)}
2101
         {\bibnamedash}
2102
         {\usebibmacro{bbx:savehash}%
2103
2104
          \printnames[emisa:names]{author}%
          \iffieldundef{authortype}
2105
            {\setunit{\addspace}}
2106
            {\setunit{\addcomma\space}%
2108
             \usebibmacro{authorstrg}%
             \setunit{\addspace}}}%
2109
       }{%
2110
```

```
\global\undef\bbx@lasthash
                                2111
                                2112
                                          \usebibmacro{labeltitle}%
                                          \setunit*{\addspace}}%
                                2113
                                       \usebibmacro{date+extrayear}}
                                2114
       bbx:editor bibmacro
                                2115 \renewbibmacro*{bbx:editor}[1]{%
                                       \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                                2116
                                          {\ifthenelse{\iffieldequals{fullhash}{\bbx@lasthash}\AND
                                2117
                                2118
                                                         \NOT\iffirstonpage\AND
                                                         \(\NOT\boolean{bbx@inset}\OR
                                2119
                                                         \iffieldequalstr{entrysetcount}{1}\)}
                                2120
                                            {\bibnamedash}
                                2121
                                            {\printnames[emisa:names]{editor}%
                                2122
                                             \setunit{\addcomma\space}%
                                2123
                                2124
                                             \usebibmacro{bbx:savehash}}%
                                           \usebibmacro{#1}%
                                2125
                                           \clearname{editor}%
                                2126
                                2127
                                           \setunit{\addspace}%
                                          }{\global\undef\bbx@lasthash
                                2128
                                           \usebibmacro{labeltitle}%
                                2129
                                           \setunit*{\addspace}%
                                2130
                                          }%
                                2131
                                          \usebibmacro{date+extrayear}%
                                2132 %
                                2133
                                       }
  bbx:translator bibmacro
                                2134 \renewbibmacro*{bbx:translator}[1]{%
                                       \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                                2135
                                2136
                                          {\tt \{\fifthenelse\{\fiftieldequals\{fullhash\}\{\bbx@lasthash\}\AND\fifthenelse\{\fiftieldequals\{fullhash\}\{\bbx@lasthash\}\and\fifthenelse\{\fiftieldequals\{fullhash\}\{\bbx@lasthash\}\and\fifthenelse\{\fiftieldequals\{fullhash\}\}\}\}}
                                                         \NOT\iffirstonpage\AND
                                2137
                                      \(\NOT\boolean{bbx@inset}\OR
                                2138
                                        \iffieldequalstr{entrysetcount}{1}\)}
                                2139
                                             {\bibnamedash}
                                2140
                                             {\printnames[emisa:names]{translator}%
                                2141
                                2142 \setunit{\addcomma\space}%
                                     \usebibmacro{bbx:savehash}}%
                                2143
                                           \usebibmacro{translator+othersstrg}%
                                2144
                                2145
                                           \clearname{translator}%
                                2146
                                           \setunit{\addspace}}%
                                          {\global\undef\bbx@lasthash
                                2147
                                           \usebibmacro{labeltitle}%
                                2148
                                           \setunit*{\addspace}}%
                                2149
                                2150
                                       \usebibmacro{date+extrayear}}
blisher+location+date
                   bibmacro
                                2151 \renewbibmacro*{publisher+location+date}{%
                                       \printlist{publisher}%
                                2152
```

```
2153 \setunit*{\addcomma\space}%
2154 \printlist{location}%
2155 \newunit}

2156 \renewbibmacro*{institution+location+date}{%
2157 \printlist{institution}%
2158 \setunit*{\addcomma\space}%
2159 \printlist{location}%
```

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

Localization

2160

\newunit}

stitution+location+date

bibmacro

```
2161 \DefineBibliographyStrings{english}{%
2162 urlseen = {Last Access},
2163 techreport = {},%
2164 }%
2165 \DefineBibliographyStrings{german}{%
2166 urlseen = {Letzter Zugriff},%
2167 techreport = {},%
2168 }%
2169 \DefineBibliographyStrings{ngerman}{%
2170 urlseen = {Letzter Zugriff},%
2171 techreport = {},%
2172 }%
```

Unlocalization

```
2173 % year/month/day
2174 \protected\def\mkbibdateiso#1#2#3{%
      \iffieldundef{#1}{}{%
2175
        \thefield{#1}%
2176
        \iffieldundef{#2}{}{-}}%
2177
      \iffieldundef{#2}{}{%
2178
2179
        \mkdatezeros{\thefield{#2}}%
        \left\{ fifieldundef\{\#3\}\{\}\{-\}\}\right\}
      \mkdatezeros{\thefield{#3}}%
2181
2182 }%
2183 \DefineBibliographyExtras{english}{\let\mkbibdateshort\mkbibdateiso}%
2184 \DefineBibliographyExtras{german}{\let\mkbibdateshort\mkbibdateiso}%
2185 \DefineBibliographyExtras{ngerman}{\let\mkbibdateshort\mkbibdateiso}%
```

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

```
2186 (/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.

```
2187 \langle *cbx \rangle
2188 \ProvidesFile{emisa.cbx}[2016/07/18 2.1.1 EMISA citation style]
2189 \RequireCitationStyle{authoryear-comp}
2190 \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".

```
2191 \DeclareRangeChars*{f}

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

2192 \langle /cbx \rangle

2193 \langle /biblatex \rangle

2194 \langle *class \rangle

Here, the LATEX class EMISAJ ends.

2195 \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.

```
2204 (/article)
2205 (issue)\documentclass[final,cover]{emisa}
2206 (*article | issue)
2207 %% The following package imports are recommended, but not obligatory;
2208 %% you might want take a look into their respective manuals if you
2209 %% don't know what they do.
2210 \usepackage{amsmath,amssymb,mathtools}
2211 \usepackage{algorithmic,algorithm}
2212 %% Additional package imports go here:
2213 %% \usepackage{}
2214 (/article | issue)
2215 (*issue)
2216 %% Insert here issue data:
2217 \volume{}% Volume No.
2218 \issue{}{}% Issue No. and Issue Date
2219 %% If there are any bibliography data bases to be used globally
2220 %% please indicate here:
2221 \bibliography{}
2222 %% Insert here any (relative or absolute) path to be searched for
2223 %% graphics files:
2224 \graphicspath{{./figs_base/},{}}
2225 %% Here you can alter the cover pages; e.g. this:
2226 %% \coverII{\AtPageDeadCenter{Something}}
2227 %% typesets the word "Something" centered on the inner side of the
2228 %% front sheet.
2229 %% You can also delete any cover pages at all by defining them empty,
2230 %% see below:
2231 \coverII{}
2232 %% This outputs the SIG-MOBIS page on the inner side of the back
2233 %% sheet:
2234 \coverIII{\AtPageCenter{\sigmobispage}}
2235 (/issue)
2236 (*article | issue)
2237 %% Here, the normal text begins.
2238 \begin{document}
2239 (/article | issue)
2240 (*issue)
2241 \tableofcontents
2242
2243 \begin{editorial}
2244 %% Please insert editorial text here.
2246 \end{editorial}
2247 (/issue)
2248 (*article | issue)
2249 \begin{article}{%
2250 %% Please declare the title elements of your article here. Unused
2251 %% elements can either be deleted or commented out, or else just let
2252 %% empty. In either case they are not typeset.
```

```
2253 %% If the option referee or review is given, all author tags, address,
2254 %% e-mail and acknowledgements will be likewise omitted.
      \title[Insert shorttitle for page headline]{Enter full title here}
2255
      \subtitle{Enter subtitle here, or leave empty}
2256
      \author*{FirstName LastName of corresponding author}{email@address.org}
2257
      \address{Enter affiliation of first (corresponding) author here. Note that only the starred v
2258
      %% Author with a different address
2259
      \author{FirstName LastName}
2260
      \address{Enter affiliation of second and further authors here. Add further authors following t
2261
      %% Author with an already used address
2262
      \author{FirstName LastName}
2263
      \address[Letter of already used address]{}
2264
      %% Enter abstract, keywords, acknowledgements, authornotes
2265
      \abstract{Enter abstract here}
2266
2267
      \keywords{Enter at a minimum three keywords here. Keyword1 \and Keyword2 \and Keyword3}
2268
      \acknowledgements{Enter acknowledgements here.}
      \authornote{If your submission is based on a prior publication and revises / extends this work
2269
      %% Please declare here the bibliography data base(s) you want to use
2270
      %% in this article (make sure to add the file extension, e.g. .bib):
2271
      \bibliography{}
2272
      %% Take note of the following closing bracket!
2273
      }
2274
2275 (/article | issue)
2276 (*issue)
2277
      \editor{My self}
      \received{24 Octover 2014}
2278
2279
      \accepted[2]{1 November 2015}
2280
      \doi{10.5073/EMISA.2011.11.1}
      \license{License information}
2281
      %% or
2282
      \CCBYNCSAThree
2283
      %% or
2284
      \CCBYNCSAFour
2285
2286 (/issue)
2287 (*article | issue)
2288 %% Please insert your article text here.
2289 \section{Introduction}
2290 \subsection{The research problem}
2291 %% Remember to provide a unique label for each section, table, figure, listing and algorithm for
2292 %%
2293 %% This directive typesets the bibliography. To achieve this, one has
2294 %% to run the biber program on the corresponding auxiliary file
2295 %% generated in the previous LaTeX run; you can just use the job name
2296 %% (the name of this file without ".tex")", e.g.: biber emisa-author-template
2297 \printbibliography
2298 %
2299 \end{article}
2300 (/article | issue)
```

2301 (*issue)

```
2302
2303 %% Please insert as much article environments here as are needed.
    \begin{article}{%
2304
       \title{}
2305
       \subtitle{}
2306
       \author*{<Name>}{<Email address>}
2307
        \address{address line 1\\address line 2}
2308
       % Author with unique address
2309
       \author{<Name>}
2310
       \address{address line 1\\address line 2}
2311
       % Author with the same address as another author
2312
       \author{<Name>}
2313
2314
       \address[a]{}
       \abstract{<Insert abstract>}
2315
2316
       \keywords{Keyword 1 \and keyword 2 \and keyword 3}
       \authornote{This article extends an earlier conference paper, see ...}
       \acknowledgements{}
2318
       \editor{My self}
2319
2320
       \received{24 Octover 2014}
       \accepted[2]{1 November 2015}
2321
       \doi{10.5073/EMISA.2011.11.1}
2322
2323
       \bibliography{}
      }
2324
2325
2327 \printbibliography
    \end{article}
2328
2329
2330 \begin{cfp}
2331 %% Please insert your Call for papers here.
2332 \end{cfp}
2333
2334 \imprint
2335 \editorialboard
2336 \guidelines
2337 (/issue)
2338 \( \article \| issue \\ \end{\( document \)}
2339 (/template)
```

Change History

format	v2.1.0
v0.95i	General: Changed \ifblank to \ifempty
General: Default left margin in all levels of all	because of wrong interpretations. Not sure,
list environments set to 1.25em 20	whether this is needed of older versions 1
\editorialboardbody: Affiliation adress for	Returned to \ifblank for the old versions 1
Reinhard Jung changed from University of	v2.1.1
Duisburg-Essen to University of St. Gallen. 43	General: Bugfix: Change \ifempty to
v0.951	\ifdefvoid
General: Default left margin setting changed	v2.2.0
back to old setting after production-level	General: Changed: New Journal's subtitle set as
emisa.cfg:	header on even pages
1em/0.9em/0.7em/0.5em/0.4em/0.3em 20	Changed: Author Instructions. Babel default
v2.0	option changed to american (from
General: No more config files 20	british)
pltopsep changed	v2.3.0
v2.0.0	General: \Bbbk is defined by newtxmath and
General: First official release on GitHub and	amssymb
CTAN	Add explicit options to doclicense, because
v2.0.1	the fallbacks are deprecated
General: Set uniquelist option to false in order to	Add support for cleveref
change the cite output 1	
Added \FloatBarrier from the placeins	Change load order of newtxmath, amsmath
package at the end of the appendix 1	and amssymb to fix problem with definition of \Bbbk
Added tracking (5 %) for smallcaps 1	
Modified insertion of license text 1	New option cleveref (default) and
Moved special issue title below title in page	'nocleveref' to support 'cleveref' package
header	Package now needs explicit options 22
Special issue title now right aligned on even	Remove package latexrelease as
pages	suggested by Frank Mittelbach