A LATEX package for preparing manuscripts for submissions to the OA journal 'Enterprise Modelling and Information Systems Architectures – An International Journal' (EMISA)

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### 1 Introduction

Enterprise Modelling and Information Systems Architectures – An International Journal (EMISA) is a publisher-independent, peer-reviewed open access journal (https://emisa-journal.org). EMISA 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 EMISA LATEX package currently maintained by Stefan Strecker (stefan.strecker@fernuni-hagen.de) and Martin Sievers (martin.sievers@schoenerpublizieren.de). It is based on an earlier funded work by Martin Leidig.

The EMISA LATEX package is provided for preparing manuscripts for submission to EMISA, and for preparing accepted submissions for publication as well as for typesetting the final document by the editorial office. Articles in EMISA are published online at <a href="https://emisa-journal.org">https://emisa-journal.org</a> (in the Portable Document Format or PDF format). The EMISA editorial office is run (alongside many other tasks and projects) by the two Editors-in-Chief assisted by doctoral students. Editorial work at EMISA 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 EMISA 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). You may need to first update (or synchronise) the package database from one of the TeX distribution's repositories. 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 GitHub (https://github.com/sstrecker/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/sstrecker/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 EMISA 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 EMISA 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 EMISA 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 EMISA 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 EMISA 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

british, UKenglish

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

american, USenglish

If you want to use American English instead, you can use the option american or USenglish. 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 are omitted using the document option referee or review to allow for the anonymous (i. e. double blind) peer-review process of EMISA. Example: \documentclass[referee] {emisa}. Make sure to use the document option referee or review before typesetting the final PDF intended for submission to the journal.

## **6** Author information

\author

Each author is added using the macro \author{ $\langle author \, name \rangle$ } followed by the corresponding address \address{ $\langle author's \, address \, (line \, 1) \rangle ... \, (line \, 2) \rangle ... \rangle$ }. 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

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

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

\acknowledgements

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

\authornote

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

## 9 Style guidelines for regular text

- Manuscripts should *not* make use of outdated L<sup>A</sup>T<sub>E</sub>X commands such as \em, but rather use the L<sup>A</sup>T<sub>E</sub>X2e 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  $\sim$  to connect before  $ref{\langle label \rangle}$ , e. g., Sec. $ref{label}$  rather than the problematic: Sec.  $ref{label}$ .
- Always use the en-dash (--) for ranges without spaces e. g., 17--34. The hyphen (-) should only be used for compound words or hyphenation.
- Do *not* write abbreviations such as e.g. but use the macros provided by the EMISA 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 EMISA class. These macros should *consistently* being used instead of writing the plain version. For example use \eg rather than e.g.,. The macros take care of spacing within and after the abbreviations.

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

\emisaabbrv

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

\OMG,\BPM,\BPMN,\UML

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

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

**\emisainitialism** 

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

## 11 Quotation marks

\enauote

It is *highly recommended* to use the  $\end{equote} {\langle quotation \rangle}$  command to produce correct quotation marks. Note that the command can be nested and will produce correct primary and secondary quotation marks in British English (or American English – depending on the chosen class option), for example  $\end{equote} A$  quote  $\end{equote}$  in 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 British (American) English can be used. See Wikipedia's entry for 'quotation mark' for further information.

### 12 Citations and references

\parencite \textcite The EMISA 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.

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

tabular 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 EMISA 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}{X11}
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 EMISA) 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 EMISA 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 EMISA 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}
```

```
results in
```

```
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
```

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.

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

Alternatively, enter a license text using the \license (or \license) commands. \license,\licence 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[british]{emisa}
% The following package imports are recommended, but not obligatory;
% you might want 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 (see
   listings package).
% \lstset{language=Java}
% 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. Note
   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

```
\label{thm:continuous} \begin{tabular}{ll} We need a macro to remove options from the global to avoid side-effects \\ 2 $\def\\\@clearglobaloption#1{\%} \end{tabular}
```

```
3 \def\@tempa{#1}%
```

4 \def\@tempb{\@gobble}%

6 \@for\next:=\@classoptionslist\do

6 {\ifx\next\@tempa

7 \message{Cleared option \next\space from global list}%

8 \else

9 \edef\@tempb{\@tempb,\next}%

10 \fi}%

11 \let\@classoptionslist\@tempb

\expandafter\ifx\@tempb\@gobble

13 \let\@classoptionslist\@empty

14 \fi}

british option UKenglish option

```
15 \DeclareOption{british}{%
```

16 \PassOptionsToPackage{british}{babel}

17 \PassOptionsToPackage{english=british}{csquotes}

18 \@clearglobaloption{british}}

19 \DeclareOption{UKenglish}{%

20 \PassOptionsToPackage{british}{babel}

21 \PassOptionsToPackage{english=british}{csquotes}

22 \@clearglobaloption{british}}

american option USenglish option

23 \DeclareOption{american}{%

24 \PassOptionsToPackage{american}{babel}

PassOptionsToPackage{english=american}{csquotes}

26 \@clearglobaloption{american}}

27 \DeclareOption{USenglish}{%

28 \PassOptionsToPackage{american}{babel}

29 \PassOptionsToPackage{english=american}{csquotes}

30 \@clearglobaloption{american}}

draft option
final option
@draft switch

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

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

31 \newif\if@draft

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

referee option noreferee option

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

review option
noreview option
@referee switch

40 \newif\if@referee

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

cover option
nocover option
\coveron

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

\coveron
\coveroff
@cover switch

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

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

- 53 \PassOptionsToClass{a4paper,twoside,11pt}{article}%
- 54 \DeclareOption\*{\PassOptionsToClass{\CurrentOption}{article}}%
- $\verb|\ExecuteOptions{british, final, noreferee, no cover, one side, open any}| % if the property of the propert$
- 56 \ProcessOptions\*\relax%
- 57 \IfFileExists{latexrelease.sty}%
- 58 {\RequirePackage[latest]{latexrelease}}%
- 59 {\RequirePackage{fixltx2e}}%

### 19.2 Loading the base class and packages

This class is build upon the LATEX standard class article.

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

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

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

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

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

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

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

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

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

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

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

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

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

#### 19.2.1 Colour and graphics

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

```
76 \RequirePackage{graphicx}%
```

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

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

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

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

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

```
78 \RequirePackage{etoolbox}%
```

We use it with these options:

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

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

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

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

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

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

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

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

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

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

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

99 \RequirePackage[autostyle=once]{csquotes}

### **19.2.2** Helpers

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

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

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

101 \RequirePackage{environ}%

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

The options' meanings are as follows:

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

defblank The two environments inparablank and asparablank will be defined.

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

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

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

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

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

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

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

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

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

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

113 \RequirePackage{afterpage,xspace,calc}%

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

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

114 \RequirePackage{geometry}%

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

- 115 \RequirePackage{eso-pic}%
- 116 \RequirePackage{placeins}%

#### 19.2.3 Scripts, fonts, and maps

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

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

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

### 19.3 Hypertext

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

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

```
anchorcolor=black,
citecolor=black,
filecolor=black,
urlcolor=black,
hyperfootnotes=false
flyperref}%
```

#### **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} $$ \left(\frac{arg}{\frac{arg}}{\frac{arg}{\frac{arg}}{\frac{arg}{\frac{arg}}{\frac{arg}{\frac{arg}}{\frac{arg}}}{\frac{arg}{\frac{arg}}{\frac{arg}{\frac{arg}}{\frac{arg}}}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}}{\frac{arg}}{\frac{arg}}{\frac{arg}{\frac{arg}}{\frac{arg}}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}}{\frac{arg}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}}{\frac{arg}{\frac{arg}}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}}}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}}}}} \right) $$ \left(\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{arg}{\frac{ar
```

## 19.5 Basic page layout

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

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

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

\pageheadfont

\pagenumfont

\pagefootfont

\authorfont \titlefont

\subtitlefont

\abstractfont

\affiliationfont

\sectionfont

\sec@font

\para@font

\boldmath}%

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

211

\affiliationauthorfont

\affiliationaddressfont

\affiliationemailfont

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

\captionfont Captions:

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

#### 19.7 Colours

These are the colour definitions for a couple of elements.

coverbgcolor color covertextcolor color

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

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

216 \definecolor{covertextcolor}{cmyk}{0.77,0.76,0.70,0.61}%

headtextcolor color boxframecolor color boxbgcolor color

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

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

### 19.8 Double line spacing

\displayskipstretch \setdisplayskipstretch

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

\setstretch Line space commands.

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

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

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

#### Syntax:

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

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

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

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

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

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

#### 19.9 **Document markup**

### 19.9.1 Declaring issue data

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

\journalname

The journal name.

255

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

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.

```
247 \ \end{array} \end{array
                                                                     248 \issn{%ISSN 1860-6059 (Print)\par
                                                                                                                                    ISSN 1866-3621 (Online)}%
                                                                     249
\volume
                                                           Volume number.
                                                                     251 \volume{\textcolor{red}{0}}%
      \issue Issue number and date.
                                                                     252 \def\issue#1#2{\@bsphack
                                                                                                        \def\@issue{#1}\%
                                                                     253
                                                                                                         \def\@issuedate{#2}%
                                                                     254
                                                                                                         \@esphack}%
```

 $\begin{tabular}{ll} 256 & \line{\color{red}{0}}{\color{red}{month 0000}} \% \\ \end{tabular}$ 

If the current issue is a *special issue*, the respective title goes here. \specialissuetitle \specialissuetitle\* 257 \def\specialissuetitle{\@ifstar\@sspit\@spit}% \specialissuetitleprefix \newcommand{\@spit}[2][]{% \@bsphack 259  $\ensuremath{\mbox{@ifempty}{\#2}\%}$ 260 {\let\@specialissuetitle\relax}% 261 {\@ifempty{#1}% 262 {\def\@specialissuetitle{\@specialissuetitleprefix#2}}% 263 {\def\@specialissuetitle{#1\space#2}}}% 264 \@esphack}% 265 266 \newcommand{\@sspit}[2][]{% \@bsphack 267  $\ensuremath{\mbox{@ifempty}{\#2}\%}$ 268 269 {\let\@specialissuetitle\relax}% {\def\@specialissuetitle{#2}}% 270 \@esphack}% 271 272 \newcommand{\specialissuetitleprefix}[1]{% \@bsphack 273 \@ifempty{#1}% 274 {\let\@specialissuetitleprefix\relax}% 275 {\def\@specialissuetitleprefix{#1\space}}% 276 \@esphack}% 278 \specialissuetitle{}% 279 \specialissuetitleprefix{Special Issue on}% \copyrightyear Copyright owner and year. \copyrightholder 280 \def\copyrightyear#1{\@bsphack\def\@copyrightyear{#1}\@esphack}% 281 \copyrightyear{\the\year}% 282 \def\copyrightholder#1{\@bsphack\def\@copyrightholder{#1}\@esphack}%

283 \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.

```
\renewcommandtwoopt*{\title}[3][][]{%
     \@bsphack
285
     \def\@title{#3}%
286
     \@ifempty{#1}{\def\@shorttitle{\@title}}{\def\@shorttitle{#1}}%
287
             \@ifempty{#2}{\def\@toctitle{\@shorttitle}}{\def\@toctitle{#2}}%
288
     \@esphack}%
289
290
   \newcommandtwoopt*{\subtitle}[3][][]{%
291
     \@bsphack
     \def\@subtitle{#3}%
292
     293
     294
     \@esphack}%
295
   \def\end{1}1111
296
     \ifx\@email\@empty
297
        \def\@email{#1}
298
299
     \else
        \ClassError{emisa}{There can only be one corresponding author!}{}
300
301
   302
   \newcommand*{\@authornostar}[1]{%
303
     \@bsphack
304
     \if@referee
305
      \def\@authors{}%
306
      \def\@shortauthors{}
307
    \else
        \gdef\@address@sep{}%
309
        \ifx\@authors\@empty
310
            \protected@xdef\@authors{#1}
311
            \protected@xappto\@shortauthors{#1}
312
        \else
313
            \protected@xappto\@authors{,\space #1}
314
            \protected@xappto\@shortauthors{,\space #1}
315
        \fi%
316
     \fi
317
     \@esphack}%
318
   \newcommandtwoopt*{\@authorstar}[3][][]{%
319
      \@bsphack
320
      \if@referee
321
        \def\@authors{}%
322
        \def\@shortauthors{}%
323
        \def\@tocauthors{}%
324
        \def\@email{}\%
325
      \else
326
        \gdef\@address@sep{}%
327
        \ifx\@authors\@empty
328
            \protected@xdef\@authors{#3\textsuperscript{*,}}
329
```

```
\protected@xappto\@shortauthors{#3}
330
         \else
331
              \protected@xappto\@authors{,\space #3\textsuperscript{*,}}
332
              \protected@xappto\@shortauthors{,\space #3}
333
         \fi%
334
          \@ifempty{#1}{\def\@shortauthor{\@shortauthors}}{\def\@shortauthor{#1}}%
335
          \@ifempty{#2}{\def\@tocauthor{\@shortauthors}}{\def\@tocauthor{#2}}%
336
       \fi
337
       \@esphack
338
       \@ifnextchar\bgroup\email{\ClassError{emisa}{Please provide an email address for the correspondent
339
   \newcommand{\keywords}[1]{
340
      \@bsphack
341
      \def\and{\unskip\ \textbullet\ }%
342
      \def\@keywords{#1}%
343
      \@esphack}%
344
345
   \newcommand{\authornote}[1]{
      \@bsphack
346
      \if@referee
347
348
         \def\@authornote{}%
      \else
349
          \def\@authornote{#1}%
350
      \fi%
351
      \@esphack}%
352
353 \newcommand{\editor}[1]{
354
      \@bsphack
      \def\@articleinfo@name{#1}%
355
      \@esphack}%
357
   \newcommand{\received}[1]{
      \@bsphack
358
      \def\@articleinfo@rdate{#1}%
359
      \@esphack}%
360
   \newcommand{\accepted}[2][]{
361
      \@bsphack
362
363
      \def\@articleinfo@rounds{#1}
      \def\@articleinfo@adate{#2}%
364
      \@esphack}%
365
   \newcommand{\doitext}{DOI:}
366
   \newcommand*{\outdoi}{%
367
     \begingroup
368
     \lccode`\~=`\#\relax
369
     \lowercase{\def~{\\#}}%
370
     \c) = \c) relax
371
     \label{def-{\_}}%
372
     \lccode`\~=`\<\relax</pre>
373
     \lowercase{\def~{\textless}}%
374
     \lccode`\~=`\>\relax
375
     \lowercase{\def~{\textgreater}}%
376
     \lccode`\~=0\relax
377
     \catcode`\#=\active
```

378

```
379
               \catcode`\_=\active
380
               \catcode`\<=\active
               \catcode`\>=\active
381
               \@outdoi
382
383 }
         \def\@outdoi#1{\%}
384
               \let\#\relax
385
               \let\_\relax
386
               \let\textless\relax
387
388
               \let\textgreater\relax
               \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}\amb}\amb}\amb}}}}}}}}}}}}}}
389
390
               \edef\#{\@percentchar23}%
391
               \left\{ -\left\{ _{-}\right\} \right\} 
392
               \edef\textless{\@percentchar3C}% instead of {\string<} for Apple</pre>
393
               \edef\textgreater{\@percentchar3E}% instead of {\string>} for Apple
394
               \edef\x{\toks1={\noexpand\href{http://dx.doi.org/#1}}}%
395
396
397
               \end{x}\operatorname{\endgroup\doitext\the\toks1 \the\toks0}
398
399 }
         \newcommand*{\doi}[1]{
400
                  \@bsphack
401
                  \def\@doi{#1}
402
                  \@esphack}%
403
         \newcommand{\acknowledgements}[1]{
                  \@bsphack
405
406
                  \def\@acknowledgements{#1}
                 \@esphack}%
407
408 \newif\if@licenseset
         \newcommand{\licence}[1]{%
409
                  \@bsphack
410
                 \def\@licence{#1}
411
                  \@esphack}%
413 \let\license\licence
         \newcommand{\CCBYNCSAThree}{%
                  \@licensesettrue%
415
                 \def\doclicense@type{CC}%
416
                  \def\doclicense@modifier@uppercase{BY-NC-SA}%
417
                  \def\doclicense@versionUsed{3.0}%
418
419 }%
         \newcommand{\CCBYNCSAFour}{%
420
                  \@licensesettrue%
421
                 \def\doclicense@type{CC}%
422
                 \def\doclicense@modifier@uppercase{BY-NC-SA}%
423
                  \def\doclicense@versionUsed{4.0}%
424
425 }%
426 \newcounter{addresses}
427 \renewcommand{\theaddresses}{\alph{addresses}}
```

```
428 \newcommand{\address}[2][]{%
                           429
                                 \@bsphack
                                 \if@referee
                           430
                                    \def\@addresses@list{}
                           431
                                \else
                           432
                                     \@ifempty{#2}{%
                           433
                                         \@ifempty{#1}{}{%
                           434
                                              \protected@xappto\@authors{\textsuperscript{\@address@sep #1}}
                           435
                                               \gdef\address@sep{,}%
                                      }}{%
                           437
                                           \stepcounter{addresses}
                           438
                                           \protected@xappto\@authors{\textsuperscript{\@address@sep\theaddresses}}
                           439
                                           \gdef\@address@sep{,}%
                           440
                                           \ifx\@addresses@list\@empty
                           441
                                                \protected@xdef\@addresses@list{\textsuperscript{\theaddresses}\ #2}
                           442
                           443
                                                \protected@xappto\@addresses@list{\newline\textsuperscript{\theaddresses}\ #2}
                           444
                                           \fi}
                           446
                                 \fi
                                \@esphack}%
                           447
                           448 \title{}%
                           449 \subtitle{}%
                           450 \author{}%
                           451 \address{}
                           452 \keywords{}%
                           453 \authornote{}%
                           454 \editor{}%
                           455 \received{}%
                           456 \accepted{}%
                           457 \doi{}%
                           458 \licence{}
                           459 \acknowledgements{}%
                           460 \def\abstract#1{\@bsphack\def\@abstract{#1}\@esphack}%
                           461 \abstract{}%
                           462 \def\@authors{}
                           463 \def\@shortauthor{}
                           464 \def\@shortauthors{}
                           465 \def\@tocauthor{}
                           466 \def\@tocauthors{}
                           467 \def\@email{}
                           468 \def\@addresses@list{}
                         This accepts the abstract text.
                           469 \def\abstract#1{\@bsphack\def\@abstract{#1}\@esphack}%
                           470 \abstract{}%
\outputarticleappendix
                         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
     \@articleappendix
\@wrap@articleappendix
       articleappendix
      articleappendix*
```

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.

```
471 \DeclareRobustCommand{\outputarticleappendix}{%
472
     {%
      \appendix
473
474 \@articleappendix
475 \global\let\@articleappendix\relax
476
478 \long\def\@wrap@articleappendix#1{\gappto{\@articleappendix}{{#1}}}
   \newenvironment{articleappendix}{%
     \gappto{\@articleappendix}{\clearpage}%
480
     \Collect@Body\@wrap@articleappendix}{}
481
482 \newenvironment{articleappendix*}{%
     \Collect@Body\@wrap@articleappendix}{}
483
484 \let\@articleappendix\relax
485 \def\@makefnmark{\textsu{\@thefnmark}\ }%
   \renewcommand\@makefntext[1]{%
486
       \parindent 1em%
487
488
        \noindent%
       \@makefnmark#1}%
489
```

#### 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: 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 Basic lengths for head and foot elements. \headwidth is the overall width of the headbox equalling the \headmargin 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.

```
490 \newlength{\headwidth}%
491 \newlength{\bleed}%
492 \newlength{\headmargin}%
493 \newlength{\footrulewidth}%
494 \newlength{\headfootruleheight}%
495 \setlength{\bleed}{3mm}%
496 \setlength{\headfootruleheight}{0.4mm}%
```

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

```
497 \AtBeginDocument{%

498 \setlength{\headwidth}{\paperwidth+2\bleed}%

499 \setlength{\headmargin}{0.5\headwidth-0.5\textwidth}%

500 \setlength{\footrulewidth}{0.5\headwidth+0.5\textwidth}}%
```

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

```
501 \newcommand{\headbox}[8]{\bgroup%
502
     \setstretch{1}%
     \reset@font\pageheadfont
503
     \tabcolsep\z@
504
     \arrayrulewidth\headfootruleheight
505
     \hskip-\headmargin
506
     \begin{tabular*}{\headwidth}[b]%
507
       {@{\rule{\headmargin}{\z@}}%
508
       >{\text{-1.25mm}}_{\text{5mm-}}
509
       1@{\extracolsep{\textwidth minus 1fill}}r%
510
511
       @{\rule{\headmargin}{\z@}}}
       #1 & #2\\
512
       \hline
513
       #3 & #4\\
514
       \hline
515
       #5 & #6\\
516
       \hline
517
       #7 & #8\\
518
     \end{tabular*}%
519
     \hskip-\headmargin
521
     \egroup
522 }%
```

\theheadvolume \headpageoffset \theoddheadpage \theevenheadpage These macros are used to assemble the page head, . . .

523 \newcommand{\theheadvolume}{%

```
\begingroup%
                  524
                  525
                       \hypersetup{urlcolor=headtextcolor}%
                       \textcolor{headtextcolor}{%
                  526
                          Vol.\,\@volume, No.\,\@issue\ (\@issuedate).%
                  527
                          528
                       \endgroup}%
                  529
                  530 \newlength{\headpageoffset}%
                  531 \setlength{\headpageoffset}{10mm}%
                     \def\theoddheadpage{%
                       \rlap{\makebox[\headpageoffset][r]{\pagenumfont\thepage}}}%
                  534 \def\theevenheadpage{%
                       ... and these are for the page foot.
@footrule switch
  \footruleoff
                  536 \newif\if@footrule%
   \footruleon
                  537 \def\footruleoff{\global\@footrulefalse}%
     \footrule
                  538 \def\footruleon{\global\@footruletrue}%
                  539 \def\footrule#1{%
                       \if@footrule
                  540
                  541
                         \makebox[\textwidth][#1]{%
                           \reset@font
                  542
                  543
                           \rule[\headfootruleheight]{\footrulewidth}{\headfootruleheight}%
                  544
                           }\fi}%
                Sets the content marks in the running titles.
\headmarkstyle
     \markhead
                  545 \def\headmarkstyle#1{\@bsphack
  \markarticle
                       \def\@headmarkstyle{#1}%
 \markeditorial
                       \@esphack}%
                  547
                  548 \headmarkstyle{\color{headtextcolor}}%
                  549 \def\markhead#1#2{\@bsphack
                       \gdef\@evenmark{#1}%
                  550
                       \gdef\@oddmark{#2}%
                  551
                       \@esphack}%
                  552
                  553 \def\markarticle{\markhead{\@shortauthor}{\@shorttitle}}%
                  554 \def\markeditorial{\markhead{\@shorttitle}}%
     \ps@emisa Finally that all being thrown together gives the basic page style.
                  555 \def\ps@emisa{%
                       \def\@oddhead{%
                  556
                         \headbox{\@journalname}{}%
                  557
                                 {\theheadvolume}{}%
                  558
                                 {{\@headmarkstyle\@oddmark}}{\theoddheadpage}%
                  559
                                 {\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\fi
                  560
                       }%
                  561
                       \def\@evenhead{%
                  562
                         \headbox{}{\@journalname}%
                  563
                                 {}{\theheadvolume}%
                  564
                                 {\theevenheadpage}{{\@headmarkstyle\@evenmark}}%
                  565
                                 {}{\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\.
```

```
567
     }%
568
     \let\@oddmark\relax
     \let\@evenmark\relax
569
     \def\@oddfoot{\footrule{r}}%
570
      \def\@evenfoot{\footrule{1}}%
571
572 }%
```

\ps@emisaarticle \ps@emisaeditorial We have two minimally different page styles:

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

```
573 \def\ps@emisaarticle{%
     \ps@emisa
574
     \markarticle
575
     \footruleoff
576
577 }%
578 \def\ps@emisaeditorial{%
      \ps@emisa
579
     \markeditorial
580
     \footruleon
581
582 }%
583 \AtEndOfClass{\pagestyle{emisa}}%
```

#### 19.9.3 Cover and advertisement pages

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

```
584 \def\basecoverfont{\normalfont\sffamily}%
585 \def\covervolumefont{%
     \basecoverfont\fontsize{6mm}{6mm}\selectfont}%
586
587 \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.

```
589 \def\coverIbgname{U1_bg}%
590 \def\coverIVbgname{U4_bg}%
```

591 \def\sigmobislogoname{SIG-MOBIS-logo-300}% 592 \def\sigEMISAlogoname{EMISA-Logo-svg}%

593 \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.

```
594 \newcommand{\AtPageDeadCenter}[1]{%
       \AtPageCenter{\makebox[\z@][c]{%
595
```

```
\raisebox{-0.5}\totalheight}[\z@][\z@]{#1}}}%
                        596
                        597 }%
                        598 \def\page@empty{\relax}%
                      Background color for one whole page plus bleed.
                        599 \newcommand{\pagebg}[1]{%
                             \AtPageDeadCenter{%
                        600
                                \textcolor{#1}{\rule{\paperwidth+2\bleed}{\paperheight+2\bleed}}}}%
                        601
                      \thispagebackground put its obligatory argument into the background of the running page. If there is
\thispagebackground
                      a non-empty optional argument it will be interpreted as the style of this page (using \thispagestyle).
                        602 \newcommand{\thispagebackground}[2][]{%
                              \@ifarg{#1}{\thispagestyle{#1}}%
                        603
                              \AddToShipoutPicture*{%
                        604
                                \unitlength 1mm\relax%
                        605
                                {#2}%
                        606
                        607 }}%
                      \picturepage additionally empties and flushes the running page, thus producing a picture-only page.
       \picturepage
                        608 \newcommand{\picturepage}[2][empty]{%
                              \thispagebackground[#1]{#2}%
                        609
                              \null\clearpage
                        610
                        611 }%
  \inputpagegraphic
                      This loads a picture file to generate a picture-only page from.
                        612 \newcommandtwoopt*{\inputpagegraphic}[3][empty][]{%
                             \thispagebackground[#1]{\includegraphics[width=\paperwidth,#2]{#3}}%
                        614
                              \null\clearpage
                        615 }%
         \coverpage \coverpage is a special form of the \picturepage:
                        616 \newcommand{\coverpage}[2][]{%
                              \@ifarg{#1}{\setcounter{page}{#1}}%
                              \picturepage{#2}%
                        619 }%
\thecovervolumeline
                      These represent the
     \thecovertitle
                        620 \newcommand{\thecovervolumeline}{%
                              \parbox[t]{130mm}{%
                        622
                                \raggedright
                                \color{covertextcolor}\covervolumefont%
                        623
                                Volume\space\@volume
                        624
                                \enspace\rule[-1mm]{0.5mm}{6mm}\enspace
                        625
                                No.\,\@issue\space\textbf{\@issuedate}\\[3mm]%
                        626
                                \@specialissuetitle
                        627
                             }%
                        628
                        629 }%
                        630 \def\thecovertitle{%
```

```
\parbox[t][30mm][s]{174mm}{%
631
632
        \color{covertextcolor}%
        \covertitlefont
633
        \raggedright\@journalname\par
634
        \vskip8mm
635
        \covervolumefont
636
        \raggedleft
637
        \textbf{An International Electronic Journal\,}}}
638
```

\sigmobispage

671

\vfill

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].

```
639 \def\sigmobispage{%
     \mbox[\z@][c]{\%}
640
       \begin{minipage}[c][260mm][s]{\textwidth}
641
642
         \sigmobispagehead
         \medskip
643
         The GI-SIG-MoBIS portal provides numerous resources on enterprise
645
         modelling research, such as a full-text digital library, a
646
         bibliography, conference announcements, a glossary and evaluation
647
         reports. It is intended to establish the premier forum for an
648
         international community in enterprise modelling. The new version
649
         is based on a Content Management System allowing authorized users
650
         to conveniently upload content. A \BibTeX{} interface allows for
651
652
         conveniently integrating bibliographic data. Information about
         this journal, such as guidelines for authors, tables of content
653
         and full-text access to articles (for GI-SIG-MobIS members only)
654
         are also available on the~portal.
655
         \par
656
         \medskip
657
658
         \begin{center}
659
660
           \includegraphics{GI-SIG-MOBIS_portal}
         \end{center}
661
         \medskip
663
664
         GI encourages everybody who wants to participate in the
665
         evolution of this community knowledge base to contribute to any of
666
     the categories covered by the portal. Please contact Michael He\ss{}
667
668
     (\href{mailto:m.hess@uni-duisburg-essen.de}{m.hess@uni-duisburg-essen.de})
     for further~information.
669
670
```

```
672
                     673
                               \sigmobispagefoot
                             \end{minipage}%
                     674
                           }%
                     675
                     676 }
\sigmobispagehead
                    Elements of \sigmobispage.
\sigmobispagefoot
                     677 \def\sigmobispagerule#1{%
\sigmobispagerule
                     678 \parbox[c][23mm][s]{\linewidth}{%
                     679
                           \centering
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}%
                     680
                     681
                           \par\vfill
                           \raisebox{-.4\height}[.5\totalheight][.5\totalheight]{\huge#1}%
                     682
                     683
                           \par\vfill
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}}\par}%
                     685 \def\sigmobispagehead{\sigmobispagerule{SIG-MoBIS Portal}}
                     686 \def\sigmobispagefoot{\sigmobispagerule{http://wi-mobis.gi-ev.de/}}
          \coverI Each of these prepares one of the cover pages.
         \coverII
                     687 \def\coverI#1{\@ifempty{#1}%
        \coverIII
                            {\let\@coverI\relax}%
                     688
         \coverIV
                            {\left(\frac{-2}{\#1}\right)}%
                     689
                     690 \def\coverII#1{\@ifempty{#1}%
                            {\let\@coverII\relax}%
                     691
                            {\def\@coverII{\coverpage[-1]{#1}}}}%
                     692
                     693 \def\coverIII#1{\@ifempty{#1}%
                            {\let\@coverIII\relax}%
                     694
                            {\def\@coverIII{\coverpage{#1}}}}%
                     695
                     696 \def\coverIV#1{\@ifempty{#1}%
                            {\let\@coverIV\relax}%
                     697
                            {\def\@coverIV{\coverpage{#1}}}}%
                     698
                    So we prepare the four cover pages.
                     699 \coverI{%
                           \pagebg{coverbgcolor}%
                     700
                           \AtPageUpperLeft{%
                     701
                             \raisebox{-\totalheight}{\includegraphics{\coverIbgname}}}%
                     702
                           \AtPageUpperLeft{\put(17,-28){\mbox{%
                     703
                             \includegraphics[height=19mm]{\sigmobislogoname}%
                     704
                             \hspace{5mm}%
                     705
                             \includegraphics[height=14.75mm]{\sigEMISAlogoname}%
                             }}%
                     707
                           }%
                     708
                           \AtPageLowerLeft{\put(166,9){\includegraphics{\gislogoname}}}%
                     709
                           \AtPageLowerLeft{\put(17,44){\thecovervolumeline}}%
                     710
                           \AtTextLowerLeft{\put(-28,36){\framebox(200,62)[c]{}}}
                     711
                           \AtPageLowerLeft{\put(17,112){\thecovertitle}}%
                     712
                     713 }%
```

714 \coverII{\page@empty}%

```
715 \coverIII{\AtPageCenter{\sigmobispage}}%
716 \coverIV{%
     \pagebg{coverbgcolor}%
717
     \AtPageLowerLeft{%
718
       \raisebox{167mm}{\includegraphics{\coverIVbgname}}}%
719
     \AtPageLowerLeft{%
720
        \put(6,9){\parbox[b]{10cm}{\raggedright\large\sffamily\@issn}}%
721
     \AtPageLowerLeft{%
722
       \put(166,9){\includegraphics{GIS-logo_with_text-300}}}%
723
724 }%
725 \if@cover
     \AtBeginDocument{%
       \@coverI\@coverII
727
       \setcounter{page}{1}%
728
729
     \AtEndDocument{%
730
       \@coverIII\@coverIV
731
732
733 \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 EMISA 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.

```
734 \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.

```
735 \newcounter{article}%
736 \@addtoreset{section}{article}%
737 \@addtoreset{footnote}{article}%
738 \@addtoreset{figure}{article}%
739 \@addtoreset{table}{article}%
```

article This encapsulates each article.

```
740 \newenvironment{article}[1]{%
741   \clearpage
742   \refstepcounter{article}%
743   \pagestyle{emisaarticle}%
744   \col@number=\tw@\relax
745   #1\relax
746   \l@article
```

Every article is its own bibliographical unit.

```
\begin{refsection}%
747
     \maketitle
748
     \ignorespaces
749
750
     \end{refsection}%
751
     \outputarticleappendix\FloatBarrier\par%
752
     \vspace{\baselineskip}%
753
     \noindent\ignorespaces
754
     \if@licenseset
755
         \edef\doclicenseURL{%
756
            \doclicense@baseUrlCC/%
757
            licenses/%
758
759
            \doclicense@modifier/%
            \doclicense@versionUsed\doclicense@UrlLangPart%
760
761
762
         \begin{minipage}{\columnwidth}
         \parbox[t]{\dimexpr 0.975\columnwidth-\doclicense@imagewidth\relax}{\vskip 0pt\raggedright\:
763
            \doclicense@lang@thisDoc\space
764
            \href{\doclicenseURL}{\doclicenseLongType\space\enquote{\doclicense@longName}}%
765
            \doclicense@lang@word@license.}%
766
         \hfill%
767
         \parbox[t]{\doclicense@imagewidth}{\vskip Opt\doclicenseImage}%
768
         \end{minipage}%
769
770
     \else
         \ifx\@licence\@empty\relax\else\par\noindent\@licence\fi%
771
     \fi%
772
     \onecolumn
773
774
     \ignorespacesafterend}%
```

# 19.9.5 Formatting editorial content

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

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

Here, section titles are a bit larger than otherwise.

```
778 \def\sec@font{\sectionfont\Large}%
779 \def\para@font{\sectionfont}%
780 \setcounter{section}{0}%
781 }%
```

editorialcontent This encapsulates editorial content entries.

```
782 \newenvironment{editorialcontent}[1]{%
783  \onecolumn
784  \refstepcounter{article}%
785  \edit@setup{#1}%
```

- 786 \l@editorialcontent
- 787 \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\

Every editorial content is its own bibliographical unit.

- 788 \begin{refsection}%
- 789 \ignorespaces
- 790 } {%
- 791 \end{refsection}%
- 792 \onecolumn
- 793 \ignorespacesafterend}%

### 19.9.6 Standard editorial content environments

Several types of standardized editorial contents.

# editorial This encapsulates editorials.

\editorialname

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

Every editorial is its own bibliographical unit.

- 800 \begin{refsection}%
- 801 \ignorespaces
- 802 }{%
- 803 \end{refsection}%
- 804 \onecolumn
- 805 \ignorespacesafterend}%

# cfp Call for papers.

\cfpname

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

## \imprint Imprint.

\imprintname \imprintbody

- 810 \newcommandtwoopt{\imprint}[2][\@imprintname][\@imprintbody]{%
- 811 \onecolumn
- 812 \edit@setup[#1]{\@journalname}%
- 813 \l@editorialcontent
- 815 \ignorespaces
- 816 #2
- 817 \onecolumn\ignorespacesafterend}%
- 818 \def\imprintname#1{\@bsphack\def\@imprintname{#1}\@esphack}%
- $\label{longdefimprintbody} $$19 \long\def\imprintbody{11\\def}\def\@imprintbody{#1}\desphack}%$

```
820 \imprintname{Imprint}%
821 \imprintbody{%
     The journal \boldsymbol{\Phi} is the official journal of the
822
     Special Interest Group on Modelling Business Information Systems
823
     within the German Informatics Society (GI-SIG MoBIS).
824
825
     The journal Enterprise Modelling and Information Systems
826
     Architectures is intended to provide a forum for those who prefer a
827
     design-oriented approach. As the official journal of the German
     Informatics Society (GI-SIG-MoBIS), it is dedicated to promote the
829
     study and application of languages and methods for enterprise
830
     modelling -- bridging the gap between theoretical foundations and
831
     real world requirements. The journal is not only aimed at
832
     researchers and students in Information Systems and Computer
833
     Science, but also at information systems professionals in industry,
834
     commerce and public administration who are interested in innovative
835
     and inspiring concepts.
836
     The journal's editorial board consists of scholars and practitioners
838
     who are renowned experts on various aspects of developing, analysing
839
     and deploying enterprise models. Besides Information Systems, they
840
     cover various fields of Computer Science.
841
842
     \section*{Subscription Information}
843
844
     The journal is distributed free of charge for members of the
845
     GI-SIG-MoBIS. Membership can be acquired through the German
846
     Informatics Society (http://www.gi-ev.de/verein/mitgliedschaft/).
847
     Single issues, priced at EUR\,25 each (plus shipment), can be ordered
848
     online (http://www.fg-mobis.gi-ev.de/).}
849
```

\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.

```
850 \newsavebox{\@editorial@box}%
851 \newlength{\editorialboxmaxheight}%
852 \setlength{\editorialboxmaxheight}{\textheight+10mm}%
853 \newcommandtwoopt{\editorialboard}[2]%
854 [\@editorialboardname][\@editorialboardbody]{%
855 \clearpage
856 \edit@setup[#1]{#1}%
857 \l@editorialcontent
858 \savebox{\@editorial@box}{%
859 \vbox{\centering%
```

```
\fboxsep=5mm
860
     \fcolorbox{boxframecolor}{boxbgcolor}{%
861
   \begin{minipage}[t]{110mm}
862
     \raggedright
863
     #2
864
865 \end{minipage}}\\*
866 }%
867
     \raisebox{15mm-\totalheight}[5mm][0mm]{\makebox[\textwidth][c]{%
       \ifdim\ht\@editorial@box>\editorialboxmaxheight
869
     \resizebox{!}{\editorialboxmaxheight}{\usebox{\@editorial@box}}%
870
871 \else
     \usebox{\@editorial@box}%
872
873 \fi
874
     }}\\*
     \raisebox{-\textheight}[0mm][0mm]{\makebox[\textwidth][1]{%
     \parbox[t]{\textwidth}{\raggedleft\bfseries\@issn}%
876
877 }}%
     \onecolumn\ignorespacesafterend
878
879 }%
   \def\editorialboardname#1{%
880
     \@bsphack\def\@editorialboardname{#1}\@esphack}%
881
   \long\def\editorialboardbody#1{%
882
     \@bsphack\def\@editorialboardbody{#1}\@esphack}%
883
884 \editorialboardname{Editorial Board}%
885 \editorialboardbody{%
     \section*{\@title}\vskip1mm
886
     {\Large Editors in Chief\\[1mm]}
887
     Ulrich Frank, University of Duisburg-Essen\\
888
     Manfred Reichert, Ulm University\\[1mm]
     {\Large Associate Editors\\[1mm]}
890
     Wil van der Aalst, Eindhoven University of Technology\\
891
     Witold Abramowicz, Poznan University of Economics\\
892
     Colin Atkinson, University of Mannheim\\
893
     J\"org Becker, University of M\"unster\\
894
     J\"org Desel, University of Hagen\\
895
     Werner Esswein, Dresden University of Technology\\
896
     Fernand Feltz, Centre de Recherche Public Gabriel Lippmann\\
897
     Andreas Gadatsch, Bonn-Rhine-Sieg University of Applied Sciences\\
     Martin Glinz, University of Zurich\\
899
     Norbert Gronau, University of Potsdam\\
     Wilhelm Hasselbring, University of Kiel\\
901
     Brian Henderson-Sellers, University of Technology, Sydney\\
902
     Stefan Jablonski, University of Bayreuth\\
903
     Manfred Jeusfeld, Tilburg University\\
904
     Reinhard Jung, University of St.\,Gallen\\
     Dimitris Karagiannis, University of Vienna\\
906
     John Krogstie, University of Trondheim\\
     Thomas K\"uhne, Victoria University of Wellington\\
```

```
909 Frank Leymann, University of Stuttgart\\
```

- 910 Stephen W. Liddle, Brigham Young University\\
- 911 Peter Loos, Johannes Gutenberg-University of Mainz\\
- 912 Oscar Pastor L\'opez, Universidad Polit\`ecnica de Val\`encia\\
- 913 Heinrich C. Mayr, University of Klagenfurt\\
- Jan Mendling, Vienna University of Economics and Business\\
- 915 Markus N\"uttgens, University of Hamburg\\
- 916 Andreas Oberweis, University of Karlsruhe\\
- 917 Erich Ortner, Darmstadt University of Technology\\
- 918 Erik Proper, Radboud University Nijmegen\\
- 919 Michael Rebstock, University of Applied Sciences Darmstadt\\
- 920 Stefanie Rinderle-Ma, University of Vienna\\
- 921 Michael Rosemann, Queensland University of Technology\\
- 922 Matti Rossi, Aalto University\\
- 923 Elmar J. Sinz, University of Bamberg\\
- 924 Friedrich Steimann, University of Hagen\\
- 925 Stefan Strecker, University of Hagen\\
- 926 Bernhard Thalheim, University of Kiel\\
- 927 Oliver Thomas, University of Osnabr\"uck\\
- 928 Juha-Pekka Tolvanen, University of Jyv\"askyl\"a\\
- 929 Klaus Turowski, University of Augsburg\\
- 930 Gottfried Vossen, University of M\"unster\\
- 931 Mathias Weske, University of Potsdam\\
- 932 Robert Winter, University of St.\,Gallen\\
- 933 Heinz Z\"ullighoven, University of Hamburg}%

### \guidelines Guidelines for Authors.

# \guidelinesname \guidelinesbody

- 934 \newcommandtwoopt{\guidelines}[2]%
- 935 [\@guidelinesname][\@guidelinesbody]{%
- 936 \onecolumn
- 937 \edit@setup{#1}%
- 938 \l@editorialcontent
- 939 \raisebox $\{5.5mm\}[10mm][0pt]{\sec@font\@title}\$
- 940 \ignorespaces
- 941 #2
- 942 \onecolumn\ignorespacesafterend}%
- 943 \def\guidelinesname#1{%
- 944 \@bsphack\def\@guidelinesname{#1}\@esphack}%
- 945 \long\def\guidelinesbody#1{%
- 946 \@bsphack\def\@guidelinesbody{#1}\@esphack}%
- 947 \guidelinesname{Guidelines for Authors}%
- 948 \guidelinesbody{%
- 949 The journal serves to publish results of innovative research on all
- 950 facets of creating and analysing enterprise models and information
- 951 systems architectures. For research papers, it is required to
- 952 satisfy academic standards in terms of originality, level of
- 953 abstraction and justification of results. Experience reports serve
- 954 to describe and analyse success stories as well as practical

```
obstacles and resulting research challenges. Topics covered by the
955
     journal include, but are not restricted to the following subjects:
956
     \begin{itemize}
957
       \item Languages and Methods for Enterprise Modelling
958
       \item Reusable Domain Models (Reference Models)
959
       \item Analysis and Design Patterns
960
       \item Modelling of Business Processes and Workflows
961
       \item Process-Oriented System Architectures
962
       \item Component-Oriented System Architectures
       \item Conceptual Modelling for Component-Oriented Design
964
       \item Ontologies for Enterprise Modelling
965
       \item Modelling for Enterprise Application Integration
966
       \item Modelling for Data Warehouses
967
       \item Modelling to support Knowledge Management
968
       \item Model-Driven Development
969
970
       \item Aspect-Oriented Design
       \item Agile Methods for Enterprise Modelling
971
     \end{itemize}
972
     Authors are asked for electronic submissions, which have to be sent
973
     to the editor in chief as e-mail attachment. In case of multiple
974
     authors, it is required to name one author who acts as contact
975
     person. The submission should include a cover page with the paper's
976
     title and the names, affiliations and e-mail addresses of all
977
     authors. The first page of the paper starts with the title and does
978
979
     not carry the authors' names. A manuscript must be either in MS
     Word or PDF format. It should not exceed 5.000 words -- this
980
     includes an abstract of around 150 words.
981
982
     Submitted papers will be reviewed within no more than two months.
983
     The review process is double blind. Authors who submit a manuscript
984
     guarantee that it has not been published elsewhere, nor is intended
985
     to be published elsewhere. Papers that were accepted for
986
     publication must be written according to the style defined for the
987
988
     journal. A comprehensive description as well as a corresponding
     Word template is provided on the web portal of the GI-SIG-MobIS
989
     (http://www.fg-mobis.gi-ev.de/).}
990
```

# 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.

```
991 \def\maketitle{%
992   \begingroup
993   \let\footnoterule\relax
994   \let\footnote\thanks
995   \let\thefootnote\relax
996   \def\@makefnmark{\textsuperscript{\@thefnmark}}%
997   \ifnum\col@number=\@ne
```

```
999
                     \else
                        \twocolumn[\@maketitle]%
              1000
                     \fi
              1001
                     \global\@topnum\z@
              1002
                     \@thanks
              1003
                    \endgroup
              1004
                    \setcounter{footnote}{0}%
              1005
              1006 }%
             This assembles and outputs the article title.
\@maketitle
             1007 \def\@maketitle{%
              1008
                    \bgroup
              1009
                    \normalfont
                    \pretolerance=9999
              1010
                    \parskip\z@
              1011
                    \parindent\z@
              1012
                     \if!\@title!
             1013
                      \else
             1014
              1015
                      {\raggedright
                          \titlefont\ignorespaces
             1016
              1017
                          \strut\@title\strut\par}%
              1018
                      \vskip2mm\relax
                      \fi
              1019
                    \if!\@subtitle!
              1020
              1021
                    \vskip5mm\relax
                    \else
             1022
                      {\makebox[\textwidth][r]{%
             1023
              1024
                        \begin{minipage}{\textwidth-15mm}
             1025
                            \raggedright
                            \subtitlefont\ignorespaces
              1026
              1027
                            \strut\@subtitle\strut
                          \end{minipage}}%
              1028
                          \par}%
             1029
                      \vskip5mm\relax
             1030
                    \fi
             1031
                    \if!\@authors!
             1032
              1033
                    \else
             1034
                    {\raggedright
                     \authorfont\ignorespaces
              1035
              1036
                     \strut\@authors
                     \ifx\@email\@empty
              1037
                         \ClassError{emisa}{There has to be one corresponding author!}{Please use \string\author*
             1038
                     \else
              1039
                        1040
             1041
                     \ifx\@acknowledgements\@empty
              1042
              1043
                        \ignorespaces\makebox[0pt][1]{\footnote{\@acknowledgements}}%
              1044
```

\@maketitle

998

```
\fi%
1045
1046
       \strut\par}%
      \vskip2mm\relax
1047
1048
      \if!\@addresses@list!
1049
      \else
1050
1051
        {\raggedright
1052
         \footnotesize\ignorespaces
          \strut\@addresses@list\strut\par}%
1053
        \vskip8mm\relax
1054
      \fi
1055
      \if!\@authornote!
1056
1057
      \else
        \let\thefootnote\relax
1058
1059
        \ignorespaces\makebox[Opt][1]{\footnote{Note: \@authornote}}%
1060
      \if!\@abstract!
1061
      \else
1062
1063
       {\abstractfont\ignorespaces
        \strut\textup{Abstract.\ }\@abstract\strut\par}%
1064
        \vskip5mm\relax
1065
1066
      \fi
      \if!\@keywords!
1067
        \vskip3mm\relax
1068
1069
      \else
       {\raggedright
1070
        \ignorespaces
1071
1072
        \strut Keywords.\ \@keywords\strut\par}
        \vskip3mm\relax
1073
1074
1075
      \if!\@articleinfo@name!
        \if!\@articleinfo@rdate!
1076
1077
           \if!\@articleinfo@adate!
             \vskip\baselineskip\relax
           \fi
1079
        \fi
1080
      \else
1081
        {\raggedright
1082
        \small
1083
1084
        \ignorespaces
         \strut Communicated by\ \@articleinfo@name.%
1085
1086
        \if!\@articleinfo@rdate!%
        \else
            \space Received\ \@articleinfo@rdate.%
1088
        \fi%
1089
        \if!\@articleinfo@adate!%
1090
        \else
1091
            \space Accepted\ %
1092
            \if!\@articleinfo@rounds!%
1093
```

```
\else%
1094
1095
              \ifnum\@articleinfo@rounds=1
                  after \@articleinfo@rounds{} revision\space%
1096
              \else
1097
                  after \@articleinfo@rounds{} revisions\space%
1098
              \fi%
1099
            \fi%
1100
            on \@articleinfo@adate.
1101
         \fi%
         \strut\par}
1103
         \vskip5mm\relax
1104
       \fi
1105
       \egroup
1106
1107 }
```

# 19.9.8 Sectioning

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

### **Syntax:**

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

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.

 $\langle \textit{style} \rangle$  Commands to set the output style. Since he June 1996 release of Lagarate Command in this argument may be a command such as \MakeUppercase or \fbox that takes an argument. The section heading will be supplied as the argument to this command. So setting this to, say,  $\langle \text{bfseries} \rangle$  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.

```
1108 \def\@sect#1#2#3#4#5#6[#7]#8{%
1109 \ifnum #2>\c@secnumdepth
1110 \let\@svsec\@empty
1111 \else
1112 \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.

```
1113 \protected@edef\@svsec{\@seccntformat{#1}}%
1114 \fi
1115 \@tempskipa #5\relax
1116 \ifdim \@tempskipa>\z@
```

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

```
1117
        \begingroup
          #6{\noindent%
1118
              \mbox{\hskip $\#3\relax\esc}\%
1119
               \raggedright
1120
               \interlinepenalty\@M
1121
               \strut#8\strut
1122
               \@@par}%
1123
1124
        \endgroup
        \csname #1mark\endcsname{#7}%
1125
1126
        \addcontentsline{toc}{#1}{%
1127
          \ifnum #2>\c@secnumdepth \else
             \protect\numberline{\csname the#1\endcsname}%
1128
          \fi
1129
1130
          #7}%
1131
      \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.

```
1132
        \def\@svsechd\{\%\
           #6{\hskip #3\relax}
1133
           \@svsec #8}%
1134
           \csname #1mark\endcsname{#7}%
1135
           \addcontentsline{toc}{#1}{%
1136
             \ifnum #2>\c@secnumdepth \else
1137
               \protect\numberline{\csname the#1\endcsname}%
1138
             \fi
1139
             #7}}%
1140
      \fi
1141
      \@xsect{#5}}
1142
```

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

### **Syntax:**

```
\ensuremath{\mbox{@ssect}\{\mbox{$\#1$: indent}\}}{\mbox{$\#2$: beforeskip}\}}{\mbox{$\#3$: afterskip}}}
                     \{\langle #4: style \rangle\} \{\langle #5: heading \rangle\}
                   See also the list on p. 48.
                   1143 \def\@ssect#1#2#3#4#5{%
                           \@tempskipa #3\relax
                   1144
                           \ifdim \@tempskipa>\z@
                   1145
                             \begingroup
                   1146
                   1147
                               #4{\noindent%
                                  \hskip #1\relax
                   1148
                                  \noindent%
                   1149
                    1150
                                  \parbox[t]{\linewidth}{%
                                    \raggedright\interlinepenalty\@M#5\strut}\@@par}%
                   1151
                    1152
                             \endgroup
                           \else
                   1153
                             1154
                           \fi
                   1155
                    1156
                           \@xsect{#3}}
                   This formats the counters (including any whitespace) of sectioning headers.
\@seccntformat
                   1157 \def\@seccntformat#1{%
                   1158
                           \csname the#1\endcsname%
                          \relax\ \ }%
                   1159
```

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

# **Syntax:**

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  $\t$  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* [ $\alpha$ largument is allowed.

```
1160 \def\section{\@startsection{section}%
1161 {1}{\z@}%
1162 {-1\baselineskip plus -2mm minus -2mm}%
1163 {.5\baselineskip plus .25\baselineskip minus .125\baselineskip}%
1164 {\sec@font}}%
\subsection
1165 \def\subsection{\@startsection{subsection}%
1166 {2}{\z@}%
```

```
{-3mm plus -2mm minus -1.5mm}%
                     1167
                             \{.25 \backslash baselineskip \ plus \ .125 \backslash baselineskip \ minus \ .125 \backslash baselineskip \} \% 
                     1168
                            {\sec@font}}%
                     1169
  \subsubsection
                     1170 \def\subsubsection{\@startsection{subsubsection}%
                            {3}{\z@}%
                     1171
                            {-3mm plus -2mm minus -1mm}%
                     1172
                            {1sp}%
                     1173
                            {\sec@font}}%
                     1174
      \paragraph
                     1175 \def\paragraph{\@startsection{paragraph}%
                            {4}{\z@}%
                     1176
                     1177
                            \{-1.5mm plus -1mm minus -0.75mm\}\%
                            {1sp}%
                     1178
                            {\para@font}}%
                     1179
   \subparagraph
                     1180 \def\subparagraph{\@startsection{subparagraph}%
                            {5}{\z@}%
                     1181
                     1182
                            \{-1.5mm\}\%
                            \{-1em\}\%
                     1183
                            {\para@font}}%
                     1184
                     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, . . .
                     1185 \def\tableofcontents{%
                            \onecolumn
                     1186
                            \pagestyle{emisaeditorial}%
                     1187
                            \footruleon
                     1188
                            \title{Table of Contents}%
                     1189
                            \null
                     1190
                     1191
                            \vskip10mm
                     1192
                            \maketitle
                            \vskip15mm
                     1193
                     1194
                            \bgroup
                     ... then, after some more adjustments, the entries are read from \( jobname \). toc using \@starttoc{toc}
                     and output.
                               \parindent\z@
                     1195
                               \parskip\z@
                     1196
                     1197
                               \@starttoc{toc}%
                            \egroup
                     1198
                     1199
                            \onecolumn
                            }
                     1200
```

```
These two routines output content lines to the ToC.
         \l@article
\l@editorialcontent
                       1201 \newcommand*\l@article{%
                             \if!\@subtitle!
                       1202
                               \addtocentry{\@tocauthor}{\thepage}{\@toctitle}%
                       1203
                       1204
                               \addtocentry{\@tocauthor}{\thepage}{\@toctitle\ --\ \@tocsubtitle}%
                       1205
                             \fi}%
                       1206
                       1207 \newcommand*\l@editorialcontent{%
                             \addtocentry{\@toctitle}{\thepage}{}}%
                       1208
       \addtocentry
                      \addtocentry adds an entry using the typical EMISA layout to the contents listing of choice (default:
                      ToC).
                       1209 \newcommand*\addtocentry[4][toc]{%
                             \addtocontents{#1}{\string\emisa@tocentry{#2}{#3}{#4}}}%
                      \emisa@tocentry typesets that entry.
    \emisa@tocentry
                       1211 \newcommand{\emisa@tocentry}[3]{%
                             \makebox[\textwidth][1]{%
                               \parbox[t]{72.5mm-\@pnumwidth}{\raggedright\textbf{#1}}%
                       1213
                       1214
                               \makebox[\@pnumwidth][r]{\textbf{#2}}%
                               \hfill
                       1215
                               \parbox[t]{85mm}{\raggedright#3}}%
                       1216
                             \vspace{3mm}}%
                       1217
                      The output of ToC entries of level -1 (\part) and above is suppressed.
                       1218 \setcounter{tocdepth}{-2}
                      19.9.10 A few abbreviations
                      Macros for a couple of abbreviations used quite frequently.
                \eg
                       1219 \newcommand*{\emisa@abbrv}[1]{#1\@\xspace}
                \cf
                       1220 \newcommand*{\emisaabbrv}[2]{\gdef#1{\emisa@abbrv{#2}}}
              \etal
                       1221 \newcommand*{\emisa@initialism}[1]{\textsc{#1}\xspace}
       \emisa@abbrv
                       1222 \newcommand*{\emisainitialism}[2]{\gdef#1{\emisa@initialism{#2}}}
                           \newcommand*{\ie}{\emisa@abbrv{i.\,e.}}
                       1223
        \emisaabbrv
                           \newcommand*{\eg}{\emisa@abbrv{e.\,g.}}
                      1224
  \emisa@initialism
                           \newcommand*{\cf}{\emisa@abbrv{cf.}}
   \emisainitialism
                       1226 \newcommand*{\etal}{\emisa@abbrv{et~al.}}
               \OMG
                       1227 \newcommand*{\OMG}{\emisa@initialism{omg}}
               \BPM
                       1228 \newcommand*{\BPM}{\emisa@initialism{bpm}}
              \BPMN
```

1229 \newcommand\*{\BPMN}{\emisa@initialism{bpmn}}

1230 \newcommand\*{\UML}{\emisa@initialism{uml}}

\UML

### 19.9.11 Other macros defined by EMISA

# 19.10 Bibliographies

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

\bibliography

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.

```
1233 \def\@tempa#1\do\addbibresource#2\nil{%
       \ifx\relax#2\relax
1234
1235
       \else
       1236
       \expandafter\@tempa\@preamblecmds\nil
1237
       \fi
1238
1239 }
   \expandafter\@tempa\@preamblecmds\do\addbibresource\nil
   \AfterEndPreamble{%
      \DeclareRobustCommand{\bibliography}[1]{%
1242
         \addbibresource{#1}}%
1243
1244 }%
1245 \renewcommand{\fps@figure}{htbp}
1246 \renewcommand{\fps@table}{htbp}
1247 \tolerance 1414
1248 \hbadness 1414
1249 \emergencystretch 1.5em
1250 \hfuzz 0.3pt
1251 \widowpenalty=10000
1252 \displaywidowpenalty=10000
1253 \clubpenalty=5000
1254 \interfootnotelinepenalty=9999
1255 \brokenpenalty=2000
1256 \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.

```
1257 ⟨/class⟩
1258 ⟨*biblatex⟩
```

# 19.10.1 The EMISA 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 EMISA 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.

```
1259 (*bbx)
```

We start by declaring the file name and date.

```
1260 \ProvidesFile{emisa.bbx}[2016/02/06 2.0 EMISA bibliography style]
```

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

```
1261 \RequireBibliographyStyle{authoryear}
... to be expanded and modified in the following.
```

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

```
1262 \newcommand*{\bibitemlabel}[1]{%
1263 \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.

```
1264 \defbibenvironment{bibliography}
1265 {\list{}%
1266     {\setlength{\labelwidth}{\z@}%
1267     \setlength{\leftmargin}{\z@}%
1268     \setlength{\itemindent}{-\leftmargin}%
1269     \setlength{\itemsep}{.5\baselineskip\@plus.2\baselineskip\@minus.2\baselineskip}%
1270     \setlength{\parsep}{\bibparsep}{\bibparsep}%
```

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

```
1271 }%
1272 \let\makelabel\bibitemlabel
```

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

```
1273 \tolerance 9999
1274 \emergencystretch 3em
1275 \hfuzz .5\p@
1276 \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.

```
1277 \clubpenalty 4000
1278 \@clubpenalty\clubpenalty
1279 \widowpenalty 4000
```

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

```
1280 \sfcode`\.\@m
```

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

An empty thebibliography environment will cause a warning.

```
1284 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1285 \endlist}
1286 {\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 EMISA are discussed here.

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

\addcomma adds a comma unless it is preceded by another comma, a semicolon, a colon, or a period. \addcolon adds a colon unless it is preceded by a comma, a semicolon, another colon, or a period. \isdot turns a previously inserted literal period into an abbreviation dot. In contrast to \adddot, nothing is inserted if this command is not preceded by a period.

The following macros insert space.

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

\addhighpenspace adds a space penalized by the value of the highnamepenalty counter which holds a penalty affecting line-breaking in names; please refer to the biblatex manual for explanation. The counter is initialized to \hyphenpenalty at load-time. Higher values lower the number of linebreaks and vice versa. The traditional BibTeXbehavior (no linebreaks at highnamepenalty breakpoints) is reached by setting it to ,Äòinfinite' (≥ 10000).

**\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.

```
1287 \renewcommand*{\newunitpunct}{\space}
```

\finentrypunct

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

```
1288 \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.

```
1289 \renewcommand*{\bibsetup}{%
1290 \interlinepenalty=5000\relax
1291 \widowpenalty=10000\relax
1292 \clubpenalty=10000\relax
1293 \biburlsetup
1294 \flushbottom
1295 \frenchspacing
1296 \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.

```
1297 \renewcommand*{\biburlsetup}{%
      \Urlmuskip=0mu plus 2mu\relax
1298
      \mathchardef\UrlBreakPenalty=200\relax
1299
      \mathchardef\UrlBigBreakPenalty=100\relax
1300
      \mathchardef\UrlEmergencyPenalty=9000\relax
1301
      \appto\UrlSpecials{%
1302
        \do\0{\mathchar`\0\penalty\UrlEmergencyPenalty}%
        \do\1{\mathchar`\1\penalty\UrlEmergencyPenalty}%
1304
        \do\2{\mathchar`\2\penalty\UrlEmergencyPenalty}%
1305
        \do\3{\mathchar`\3\penalty\UrlEmergencyPenalty}%
1306
        \do\4{\mathchar`\4\penalty\UrlEmergencyPenalty}%
1307
        \do\5{\mathchar`\5\penalty\UrlEmergencyPenalty}%
1308
        \do\6{\mathchar`\6\penalty\UrlEmergencyPenalty}%
1309
        \do\7{\mathchar`\7\penalty\UrlEmergencyPenalty}%
1310
        \do\8{\mathchar`\8\penalty\UrlEmergencyPenalty}%
1311
        \do\9{\mathchar`\9\penalty\UrlEmergencyPenalty}}%
1312
      \def\UrlBreaks{%
1313
        1314
        1315
      \def\UrlBigBreaks{\do\:\do\-}%
1316
URLs are typeset in sans-serif script.
      \def\UrlFont{\sffamily}%
1317
      }
1318
```

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

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

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

**\DeclareFieldFormat**[ $\langle entry type \rangle$ ]{ $\langle format \rangle$ }{ $\langle code \rangle$ } defines the formatting code given in  $\langle code \rangle$  to be executed by \printfield on processing the field  $\langle format \rangle$ . The value of the field will be passed to  $\langle code \rangle$  as its first and only argument. If an  $\langle entry type \rangle$  is specified, the format is specific to that type; otherwise it applies to all entry types defined. The name of the field currently being processed is available in \currentfield.

\DeclareFieldAlias[\langle entry type \rangle] \{\langle alias \rangle} \[ \langle format entry type \rangle] \{\langle format \rangle} \] declares \( \langle alias \rangle \] to be an alias of the field format \( \langle format \rangle \). If an \( \langle entry type \rangle \) is specified, the alias is specific to that type. The \( \langle format entry type \rangle \) is the entry type of the backend format. This is only required when declaring an alias of a type specific formatting directive.

**\bibstring[\langle wrapper \rangle] {\langle key \rangle}** prints the bibliography string identified by  $\langle key \rangle$ . The string will be capitalized as required. Depending on the abbreviate package option, \bibstring prints the short or the long version of the string. If bibliography strings are nested, i.e., if \bibstring is used in another string, it will behave like \bibxstring. If the  $\langle wrapper \rangle$  argument is given, the string is passed to the  $\langle wrapper \rangle$  for formatting. This is intended for font commands such as \emph.

**\bibcpstring**[ $\langle wrapper \rangle$ ] { $\langle key \rangle$ } 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.

```
1319 \DeclareFieldFormat{citetitle}{#1}
1320 \DeclareFieldFormat[article]{citetitle}{#1\isdot}
1321 \DeclareFieldFormat[inbook]{citetitle}{#1\isdot}
1322 \DeclareFieldFormat[incollection]{citetitle}{#1\isdot}
1323 \DeclareFieldFormat[inproceedings]{citetitle}{#1\isdot}
1324 \DeclareFieldFormat[patent]{citetitle}{#1\isdot}
1325 \DeclareFieldFormat[thesis]{citetitle}{#1\isdot}
1326 \DeclareFieldFormat[unpublished]{citetitle}{#1\isdot}
```

The following field formats are used for output in bibliographies.

```
1327 \DeclareFieldFormat{booktitle}{#1\isdot}
1328 \DeclareFieldFormat{journaltitle}{#1}
1329 \DeclareFieldFormat{issuetitle}{#1}
1330 \DeclareFieldFormat{maintitle}{#1}
    \DeclareFieldFormat{title}{#1}
    \DeclareFieldFormat[article]{title}{#1\isdot}
    \DeclareFieldFormat[inbook]{title}{#1\isdot}
    \DeclareFieldFormat[incollection]{title}{#1\isdot}
    \DeclareFieldFormat[inproceedings]{title}{#1\isdot}
    \DeclareFieldFormat[patent]{title}{#1\isdot}
1336
    \DeclareFieldFormat[thesis]{title}{#1\isdot}
    \DeclareFieldFormat[unpublished]{title}{#1\isdot}
1338
    \DeclareFieldFormat{url}{\url{#1}}
    \DeclareFieldFormat{urldate}{\bibstring{urlseen}\addcolon\space#1}
    \DeclareFieldAlias[misc]{note}{urldate}
1342 \DeclareFieldAlias[report]{note}{urldate}
1343 \DeclareFieldAlias[thesis]{note}{urldate}
1344 \DeclareFieldFormat{version}{\bibcpstring{version}~#1}
1345 \DeclareFieldFormat{volume}{\bibcpstring{volume}~#1}
1346 \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.

- $\mbox{\ensuremath{\mbox{newbibmacro}\{\langle name\rangle\}[\langle arguments\rangle][\langle optional\rangle]\{\langle definition\rangle\}}\ defines a macro to be ex$ ecuted via \usebibmacro later. The syntax and argument handling of this command is very similar to \newcommand except that
  - $\triangleright \langle name \rangle$  may contain characters such as numbers and punctuation marks but no backslash, and
  - > \newbibmacro issues just a warning message if the macro is already defined, then falls back to \renewbibmacro.

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

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

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

```
1347 \DeclareNameFormat{emisa:names}{%
      \usebibmacro{name:last-firstinit}{#1}{#4}{#5}{#7}%
1348
      \usebibmacro{name:andothers}}
1349
```

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

```
me:last-firstinit
```

```
bibmacro
```

```
1350 \newbibmacro*{name:last-firstinit}[4]{%
       \usebibmacro{name:delim}{#2#3#1}%
1351
       \usebibmacro{name:hook}{#2#3#1}%
1352
Formatting: name prefix ('von part'), ...
       \ifblank{#3}{}{%
1353
         \mkbibnameprefix{#3}%\isdot
1354
1355
         \ifpunctmark{'}
1356
           {}
           {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
1357
... last name ...
       \mkbibnamelast{#1}\addhighpenspace
1358
... name affix ('junior part'), ...
       \ifblank{#4}{}{\addlowpenspace\mkbibnameaffix{#4}\addlowpenspace}%
1359
```

```
... and first name (initials).
                                \ifblank{#2}{}{\mkbibnamefirst{#2}\isdot}%
                          1361 }%
                         This outputs the «in:» tag, as in bibliography entries for proceedings, collections, edited books and so on.
         in: bibmacro
                          1362 \renewbibmacro*{in:}{%
                                \printtext{%
                          1363
                                  \bibcpstring{in}%
                          1364
                                   \intitlepunct}}
                         Generic bibliography macros In this subsection the generic bibmacros outputting the typical name
                         fields in bibliographies are customised.
       author bibmacro
                          1366 \renewbibmacro*{author}{%
                          1367
                                \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
                                   {\printnames{author}%
                          1368
                                   \iffieldundef{authortype}
                          1369
                          1370
                                      {\setunit{\addspace}%
                          1371
                          1372 \usebibmacro{authorstrg}}}
                          1373
                                  {}}
       editor bibmacro
                          1374 \renewbibmacro*{editor}{%
                          1375
                                \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                                   {\printnames{editor}%
                          1376
                                   \setunit{\addspace}%
                          1377
                                   \usebibmacro{editorstrg}%
                          1378
                                   \clearname{editor}}
                          1379
                                   {}}
                          1380
editor+others bibmacro
                              \renewbibmacro*{editor+others}{%
                          1381
                                \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                          1382
                                   {\printnames[emisa:names]{editor}%
                          1383
                                   \setunit{\addspace}%
                          1384
                                   \usebibmacro{editor+othersstrg}%
                          1385
                                   \clearname{editor}}
                          1387
                                   {}}
   translator bibmacro
                          1388 \renewbibmacro*{translator}{%
                                \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                          1389
                                   {\printnames{translator}%
                          1390
                                   \setunit{\addspace}%
                          1391
```

\usebibmacro{translatorstrg}%

1392

```
\clearname{translator}}
                             1393
                             1394
                                     {}}
translator+others bibmacro
                             1395 \renewbibmacro*{translator+others}{%
                             1396
                                   \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                                      {\printnames{translator}%
                             1397
                             1398
                                      \setunit{\addspace}%
                                      \usebibmacro{translator+othersstrg}%
                             1399
                                      \clearname{translator}}
                             1400
                                     {}}
                             1401
editor+othersstrg bibmacro
                             1402 \renewbibmacro*{editor+othersstrg}{%
                                   \iffieldundef{editortype}
                             1403
                                     {\ifthenelse{\value{editor}>1\OR\ifandothers{editor}}}
                             1404
                                         {\def\abx@tempa{editors}}
                                         {\def\abx@tempa{editor}}}
                             1406
                                     {\ifthenelse{\value{editor}>1\OR\ifandothers{editor}}
                             1407
                                         {\edef\abx@tempa{\thefield{editortype}s}}
                             1408
                                         {\edef\abx@tempa{\thefield{editortype}}}}%
                             1409
                                   \let\abx@tempb=\empty
                             1410
                                   \ifnamesegual{editor}{translator}
                             1411
                                     {\appto\abx@tempa{tr}%
                             1412
                                      \appto\abx@tempb{\clearname{translator}}}
                             1413
                                     {}%
                             1414
                             1415
                                   \ifnamesequal{editor}{commentator}
                                     {\appto\abx@tempa{co}%
                             1416
                                      \appto\abx@tempb{\clearname{commentator}}}
                             1417
                                     {\ifnamesequal{editor}{annotator}
                             1418
                                         {\appto\abx@tempa{an}%
                             1419
                                 \appto\abx@tempb{\clearname{annotator}}}
                             1420
                                         {}}%
                             1421
                                   \ifnamesequal{editor}{introduction}
                             1422
                             1423
                                      {\appto\abx@tempa{in}%
                             1424
                                      \appto\abx@tempb{\clearname{introduction}}}
                                     {\ifnamesequal{editor}{foreword}
                             1425
                                         {\appto\abx@tempa{fo}%
                             1426
                                 \appto\abx@tempb{\clearname{foreword}}}
                             1427
                                         {\ifnamesequal{editor}{afterword}
                             1428
                                            {\appto\abx@tempa{af}%
                             1429
                                             \appto\abx@tempb{\clearname{afterword}}}
                             1430
                             1431
                                            {}}}%
                                   \ifbibxstring{\abx@tempa}
                             1432
                                     {\bibstring[\mkbibparens]{\abx@tempa}%
                             1433
                                      \abx@tempb}
                             1434
                                     {\usebibmacro{editorstrg}}}%
                             1435
```

emisa:url+urldate bibmacro

```
1436 \newbibmacro*{emisa:url+urldate}{%
                                   \iffieldundef{url}
                             1437
                                     {\printfield{howpublished}}
                             1438
                                     {\printfield{url}}
                             1439
                                   \setunit*{\addperiod\space}\newblock
                             1440
                                   \iffieldundef{urlyear}
                             1441
                                     {\printfield{note}}
                             1442
                                     {\printtext[urldate]{\printurldate}}}
                             1443
isa:url+type+version+urldate
                 bibmacro
                             1444
                                 \newbibmacro*{emisa:url+type+version+urldate}{%
                                   \iffieldundef{url}%
                             1445
                                     {\printfield{url}}
                             1446
                             1447
                                     {\printfield{howpublished}}%
                                   \setunit*{\addcomma\space}\newblock
                             1448
                                   \printfield{type}%
                             1449
                                   \setunit*{\addcomma\space}\newblock
                             1450
                                   \printfield{version}%
                             1451
                                   \setunit*{\addcomma\space}\newblock
                             1452
                             1453
                                   \iffieldundef{urlyear}
                                     {\printfield{note}}
                             1454
                             1455
                                     {\printtext[urldate]{\printurldate}}}
```

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

```
1456 \renewbibmacro*{finentry}{}%
```

### article bibdriver

```
1457 \DeclareBibliographyDriver{article}{%
      \usebibmacro{bibindex}%
1458
      \usebibmacro{begentry}%
1459
1460
      \usebibmacro{author/translator+others}%
      \setunit{\labelnamepunct}\newblock
1461
      \usebibmacro{title}%
1462
1463
      \newunit
      \printlist{language}%
1464
      \newunit\newblock
1465
      \usebibmacro{bytranslator+others}%
1466
      \newunit\newblock
1467
1468
      \printfield{version}%
      \setunit{\addperiod\space}%
1469
1470
      \usebibmacro{in:}%
      \usebibmacro{journal+issuetitle}%
1471
```

- 1472 \newunit\newblock
- 1473 \usebibmacro{editor+others}%
- 1474 \newunit\newblock
- 1475 \usebibmacro{note+pages}%
- 1476 \newunit\newblock
- 1477 \iftoggle{bbx:isbn}
- 1478 {\printfield{issn}}
- 1479 {}%
- 1480 \newunit\newblock
- 1481 \usebibmacro{doi+eprint+url}%
- 1482 \newunit\newblock
- 1483 \usebibmacro{addendum+pubstate}%
- 1484 \newunit\newblock
- 1485 \usebibmacro{pageref}%
- 1486 \usebibmacro{finentry}}

#### book bibdriver

- 1487 \DeclareBibliographyDriver{book}{%
- 1488 \usebibmacro{bibindex}%
- 1489 \usebibmacro{begentry}%
- 1490 \usebibmacro{author/editor+others/translator+others}%
- 1491 \setunit{\labelnamepunct}\newblock
- 1492 \usebibmacro{maintitle+title}%
- 1493 \newunit
- 1494 \printlist{language}%
- 1495 \newunit\newblock
- 1496 \usebibmacro{editor+others}%
- 1497 \setunit{\addcomma\space}%
- 1498 \newblock
- 1499 \printfield{edition}%
- 1500 \setunit{\addperiod\space}%
- 1501 \newblock
- 1502 \usebibmacro{series+number}%
- 1503 \newunit
- 1504 \newblock
- 1505 \iffieldundef{maintitle}
- 1506 {\printfield{volume}%
- 1507 \printfield{part}}
- 1508 {}%
- 1509 \newunit
- 1510 \printfield{volumes}%
- 1511 \setunit{\addperiod\space}%
- 1512 \newblock
- 1513 \printfield{note}%
- 1514 \setunit{\addperiod\space}%
- 1515 \newblock
- 1516 \usebibmacro{publisher+location+date}%
- 1517 \newunit\newblock
- 1518 \usebibmacro{chapter+pages}%

```
1519
      \newunit
      \printfield{pagetotal}%
1520
      \newunit\newblock
1521
      \iftoggle{bbx:isbn}
1522
        {\printfield{isbn}}
1523
        {}%
1524
1525
      \newunit\newblock
      \usebibmacro{doi+eprint+url}%
1526
1527
      \newunit\newblock
      \usebibmacro{addendum+pubstate}%
1528
      \newunit\newblock
1529
      \usebibmacro{pageref}%
1530
1531
      \usebibmacro{finentry}}
1532 \DeclareBibliographyDriver{booklet}{%
      \usebibmacro{bibindex}%
1533
      \usebibmacro{begentry}%
1534
1535
      \usebibmacro{author/editor+others/translator+others}%
      \setunit{\labelnamepunct}\newblock
1536
      \usebibmacro{title}%
1537
1538
      \newunit
      \printlist{language}%
1539
      \newunit\newblock
1540
      \usebibmacro{editor+others}%
1541
      \newunit\newblock
1542
1543
      \printfield{howpublished}%
      \newunit\newblock
      \printfield{type}%
1545
      \newunit\newblock
1546
      \printfield{note}%
1547
      \newunit\newblock
1548
      \usebibmacro{location+date}%
1549
      \newunit\newblock
1550
      \usebibmacro{chapter+pages}%
1551
1552
      \newunit
      \printfield{pagetotal}%
1553
      \newunit\newblock
1554
      \usebibmacro{doi+eprint+url}%
1555
      \newunit\newblock
1556
      \usebibmacro{addendum+pubstate}%
1557
      \newunit\newblock
1558
      \usebibmacro{pageref}%
1559
      \usebibmacro{finentry}}
1560
```

# collection bibdriver

booklet bibdriver

- 1561 \DeclareBibliographyDriver{collection}{%
- 1562 \usebibmacro{bibindex}%

```
1563 \usebibmacro{begentry}%
1564 \usebibmacro{editor+others}%
1565 \setunit{\labelnamepunct}\newblock
```

1565 \Setunit(\labelnamepunct)\newbio

1566 \usebibmacro{maintitle+title}%

1567 \newunit

1568 \printlist{language}%

1569 \newunit\newblock

1570 \usebibmacro{editor+others}%

1571 \setunit{\addcomma\space}%

1572 \newblock

1573 \printfield{edition}%

1574 \setunit{\addperiod\space}%

1575 \newblock

1576 \usebibmacro{series+number}%

1577 \newunit

1578 \newblock

1579 \iffieldundef{maintitle}

1580 {\printfield{volume}%

1581 \printfield{part}}

1582 {}%

1583 \newunit

1584 \printfield{volumes}%

1585 \setunit{\addperiod\space}%

1586 \newblock

1587 \printfield{note}%

1588 \setunit{\addperiod\space}%

1589 \newblock

1590 \usebibmacro{publisher+location+date}%

1591 \newunit\newblock

1592 \usebibmacro{chapter+pages}%

1593 \newunit

1594 \printfield{pagetotal}%

1595 \newunit\newblock

1596 \iftoggle{bbx:isbn}

1597 {\printfield{isbn}}

1598 {}%

1599 \newunit\newblock

1600 \usebibmacro{doi+eprint+url}%

1601 \newunit\newblock

1602 \usebibmacro{addendum+pubstate}%

1603 \newunit\newblock

1604 \usebibmacro{pageref}%

1605 \usebibmacro{finentry}}

### inbook bibdriver

1606 \DeclareBibliographyDriver{inbook}{%

1607 \usebibmacro{bibindex}%

1608 \usebibmacro{begentry}%

1609 \usebibmacro{author/translator+others}%

- 1610 \setunit{\labelnamepunct}\newblock
- 1611 \usebibmacro{title}%
- 1612 \newunit
- 1613 \printlist{language}%
- 1614 \newunit\newblock
- 1615 \usebibmacro{in:}%
- 1616 \usebibmacro{bybookauthor}%
- 1617 \newunit\newblock
- 1618 \usebibmacro{maintitle+booktitle}%
- 1619 \newunit\newblock
- 1620 \usebibmacro{editor+others}%
- 1621 \setunit{\addcomma\space}%
- 1622 \newblock
- 1623 \printfield{edition}%
- 1624 \newunit
- 1625 \iffieldundef{maintitle}
- 1626 {\printfield{volume}%
- 1627 \printfield{part}}
- 1628 {}%
- 1629 \newunit
- 1630 \printfield{volumes}%
- 1631 \newunit\newblock
- 1632 \usebibmacro{series+number}%
- 1633 \newunit\newblock
- 1634 \printfield{note}%
- 1635 \newunit\newblock
- 1636 \usebibmacro{publisher+location+date}%
- 1637 \newunit\newblock
- 1638 \usebibmacro{chapter+pages}%
- 1639 \newunit\newblock
- 1640 \iftoggle{bbx:isbn}
- 1641 {\printfield{isbn}}
- 1642 {}%
- 1643 \newunit\newblock
- 1644 \usebibmacro{doi+eprint+url}%
- 1645 \newunit\newblock
- 1646 \usebibmacro{addendum+pubstate}%
- 1647 \newunit\newblock
- 1648 \usebibmacro{pageref}%
- 1649 \usebibmacro{finentry}}

# incollection bibdriver

- 1650 \DeclareBibliographyDriver{incollection}{%
- 1651 \usebibmacro{bibindex}%
- 1652 \usebibmacro{begentry}%
- 1653 \usebibmacro{author/translator+others}%
- 1654 \setunit{\labelnamepunct}\newblock
- 1655 \usebibmacro{title}%
- 1656 \setunit{\addcomma\space}%

```
\printlist{language}%
1657
Period after title, if any
       \setunit{\addperiod\space}%
1659
       \usebibmacro{in:}%
1660
       \usebibmacro{editor+others}%
       \setunit{\addspace}%
1661
       \newblock
1662
       \usebibmacro{byauthor}%
1663
       \newblock
1664
1665
       \usebibmacro{maintitle+booktitle}%
Colon after maintitle, if any
       \newblock
1666
       \printfield{edition}%
1667
       \setunit{\addperiod\space}%
1668
       \newblock
1669
       \usebibmacro{series+number}%
1670
       \newunit
1671
1672
       \newblock
       \iffieldundef{maintitle}
1673
         {\printfield{volume}%
1674
          \printfield{part}}
1675
         {}%
1676
       \newunit
1677
       \printfield{volumes}%
1678
       \setunit{\addperiod\space}%
1679
1680
       \newblock
1681
       \printfield{note}%
       \setunit{\addperiod\space}%
1682
       \newblock
1683
       \usebibmacro{publisher+location+date}%
1684
       \setunit*{\addcomma\space}%
1685
       \newblock
1686
1687
       \usebibmacro{chapter+pages}%
       \newunit\newblock
1688
       \iftoggle{bbx:isbn}
1689
1690
         {\printfield{isbn}}
         {}%
1691
       \newunit\newblock
1692
       \usebibmacro{doi+eprint+url}%
1693
```

# inproceedings bibdriver

1699 \DeclareBibliographyDriver{inproceedings}{%

\usebibmacro{addendum+pubstate}%

\newunit\newblock

\newunit\newblock

\usebibmacro{pageref}%
\usebibmacro{finentry}}

1694

1695

1696 1697

1698

- 1700 \usebibmacro{bibindex}%
- 1701 \usebibmacro{begentry}%
- 1702 \usebibmacro{author/translator+others}%
- 1703 \setunit{\labelnamepunct}%
- 1704 \newblock
- 1705 \usebibmacro{title}%
- 1706 \setunit{\addcomma\space}%
- 1707 \printlist{language}%
- 1708 \newblock
- 1709 \usebibmacro{byauthor}%

### Period after title, if any

- 1710 \setunit{\addperiod\space}%
- 1711 \usebibmacro{in:}%
- 1712 \usebibmacro{editor+others}%
- 1713 \setunit{\addspace}%
- 1714 \newblock
- 1715 \usebibmacro{byauthor}%
- 1716 \newblock
- 1717 \usebibmacro{maintitle+booktitle}%

# Colon after maintitle, if any

- 1718 \newblock
- 1719 \usebibmacro{event+venue+date}%
- 1720 \setunit{\addperiod\space}%
- 1721 \newblock
- 1722 \usebibmacro{series+number}%
- 1723 \newunit
- 1724 \newblock
- 1725 \iffieldundef{maintitle}
- 1726 {\printfield{volume}%
- 1727 \printfield{part}}
- 1728 {}%
- 1729 \newunit
- 1730 \printfield{volumes}%
- 1731 \setunit{\addperiod\space}%
- 1732 \newblock
- 1733 \printfield{note}%
- 1734 \setunit{\addperiod\space}%
- 1735 \newblock
- 1736 \printlist{organization}%
- 1737 \setunit{\addperiod\space}%
- 1738 \newblock
- 1739 \usebibmacro{publisher+location+date}%
- 1740 \setunit{\addcomma\space}%
- 1741 \newblock
- 1742 \usebibmacro{chapter+pages}%
- 1743 \newunit\newblock
- 1744 \iftoggle{bbx:isbn}

- 1745 {\printfield{isbn}}
- 1746 {}%
- 1747 \newunit\newblock
- 1748 \usebibmacro{doi+eprint+url}%
- 1749 \newunit\newblock
- 1750 \usebibmacro{addendum+pubstate}%
- 1751 \newunit\newblock
- 1752 \usebibmacro{pageref}%
- 1753 \usebibmacro{finentry}}

#### manual bibdriver

- 1754 \DeclareBibliographyDriver{manual}{%
- 1755 \usebibmacro{bibindex}%
- 1756 \usebibmacro{begentry}%
- 1757 \usebibmacro{author/editor}%
- 1758 \setunit{\labelnamepunct}\newblock
- 1759 \usebibmacro{title}%
- 1760 \newunit
- 1761 \printlist{language}%
- 1762 \newunit\newblock
- 1763 \usebibmacro{byeditor}%
- 1764 \setunit{\addcomma\space}%
- 1765 \newblock
- 1766 \printfield{edition}%
- 1767 \newunit\newblock
- 1768 \usebibmacro{series+number}%
- 1769 \newunit\newblock
- 1770 \printfield{type}%
- 1771 \newunit
- 1772 \printfield{version}%
- 1773 \newunit
- 1774 \printfield{note}%
- 1775 \newunit\newblock
- 1776 \printlist{organization}%
- 1777 \newunit
- 1778 \usebibmacro{publisher+location+date}%
- 1779 \newunit\newblock
- 1780 \usebibmacro{chapter+pages}%
- 1781 \newunit
- 1782 \printfield{pagetotal}%
- 1783 \newunit\newblock
- 1784 \iftoggle{bbx:isbn}
- 1785 {\printfield{isbn}}
- 1786 {}%
- 1787 \newunit\newblock
- 1788 \usebibmacro{doi+eprint+url}%
- 1789 \newunit\newblock
- 1790 \usebibmacro{addendum+pubstate}%
- 1791 \newunit\newblock

```
1792
                         \usebibmacro{pageref}%
                         \usebibmacro{finentry}}
                  1793
  misc bibdriver
                      \DeclareBibliographyDriver{misc}{%
                  1794
                         \usebibmacro{bibindex}%
                  1795
                  1796
                         \usebibmacro{begentry}%
                         \usebibmacro{author/editor+others/translator+others}%
                  1797
                         \setunit{\labelnamepunct}\newblock
                  1798
                         \usebibmacro{title}%
                  1800
                         \newunit
                         \printlist{language}%
                  1801
                 Period after title, if any
                  1802
                         \setunit{\addperiod\space}%
                         \usebibmacro{emisa:url+urldate}%
                  1803
                  1804
                         \usebibmacro{finentry}}
online bibdriver
                  1805 \DeclareBibliographyDriver{online}{%
                         \usebibmacro{bibindex}%
                  1806
                  1807
                         \usebibmacro{begentry}%
                         \usebibmacro{author/editor+others/translator+others}%
                  1808
                         \setunit{\labelnamepunct}\newblock
                  1809
                  1810
                         \usebibmacro{title}%
                         \newunit
                  1811
                  1812
                         \printlist{language}%
                  1813
                         \newunit\newblock
                         \usebibmacro{editor+others}%
                  1814
                         \newunit\newblock
                  1815
                         \printfield{version}%
                  1816
                         \newunit
                  1817
                         \printfield{note}%
                  1818
                         \newunit\newblock
                  1819
                         \printlist{organization}%
                  1820
                  1821
                         \newunit\newblock
                         \usebibmacro{date}%
                  1822
                         \newunit\newblock
                  1823
                         \iftoggle{bbx:eprint}
                  1824
                           {\usebibmacro{eprint}}
                  1825
                           {}%
                  1826
                         \newunit\newblock
                  1827
                         \usebibmacro{url+urldate}%
                  1828
                         \newunit\newblock
                  1829
                  1830
                         \usebibmacro{addendum+pubstate}%
                         \newunit\newblock
                  1831
                         \usebibmacro{pageref}%
                  1832
```

1833

\usebibmacro{finentry}}

#### patent bibdriver

periodical bibdriver

```
1834 \DeclareBibliographyDriver{patent}{%
      \usebibmacro{bibindex}%
1835
      \usebibmacro{begentry}%
1836
      \usebibmacro{author}%
1837
1838
      \setunit{\labelnamepunct}\newblock
      \usebibmacro{title}%
1839
      \newunit
1840
      \printlist{language}%
1841
      \newunit\newblock
1842
1843
      \printfield{type}%
      \setunit*{\addspace}%
1844
      \printfield{number}%
1845
      \iflistundef{location}
1847
        {\setunit*{\addspace}%
1848
1849
         \printtext[parens]{%
            \printlist[][-\value{listtotal}]{location}}}%
1850
      \newunit\newblock
1851
      \usebibmacro{byholder}%
1852
      \newunit\newblock
1853
1854
      \printfield{note}%
      \newunit\newblock
1855
      \usebibmacro{date}%
1856
      \newunit\newblock
1857
      \iftoggle{bbx:url}
1858
        {\usebibmacro{url+urldate}}
1859
1860
1861
      \newunit\newblock
      \usebibmacro{addendum+pubstate}%
1862
1863
      \newunit\newblock
      \usebibmacro{pageref}%
1864
      \usebibmacro{finentry}}
1865
1866 \DeclareBibliographyDriver{periodical}{%
      \usebibmacro{bibindex}%
1867
      \usebibmacro{begentry}%
1868
      \usebibmacro{editor}%
1869
      \setunit{\labelnamepunct}\newblock
1870
1871
      \usebibmacro{title+issuetitle}%
1872
      \newunit
1873
      \printlist{language}%
      \newunit\newblock
1874
      \usebibmacro{byeditor}%
1875
      \newunit\newblock
1876
      \printfield{note}%
1877
1878
      \newunit\newblock
```

```
\iftoggle{bbx:isbn}
1879
        {\printfield{issn}}
1880
        {}%
1881
      \newunit\newblock
1882
      \usebibmacro{doi+eprint+url}%
1883
      \newunit\newblock
1884
1885
      \usebibmacro{addendum+pubstate}%
      \newunit\newblock
1886
1887
      \usebibmacro{pageref}%
      \usebibmacro{finentry}}
1888
    \DeclareBibliographyDriver{proceedings}{%
1889
      \usebibmacro{bibindex}%
1890
      \usebibmacro{begentry}%
1891
1892
      \usebibmacro{editor+others}%
      \setunit{\labelnamepunct}\newblock
1893
      \usebibmacro{maintitle+title}%
1894
1895
      \newunit
      \printlist{language}%
1896
      \newunit\newblock
1897
      \usebibmacro{event+venue+date}%
1898
      \newunit\newblock
1899
      \usebibmacro{editor+others}%
1900
      \setunit{\addperiod\space}%
1901
      \newblock
1902
1903
      \usebibmacro{series+number}%
      \newunit
      \newblock
1905
      \iffieldundef{maintitle}
1906
        {\printfield{volume}%
1907
         \printfield{part}}
1908
        {}%
1909
      \newunit
1910
      \printfield{volumes}%
1911
1912
      \setunit{\addperiod\space}%
      \newblock
1913
      \printfield{note}%
1914
      \setunit{\addperiod\space}%
1915
      \newblock
1916
      \printlist{organization}%
1917
      \setunit{\addperiod\space}%
1918
      \newblock
1919
      \usebibmacro{publisher+location+date}%
1920
1921
      \newblock
      \usebibmacro{chapter+pages}%
1922
```

\newunit

\printfield{pagetotal}%

\newunit\newblock

1923

1924

1925

proceedings bibdriver

```
\iftoggle{bbx:isbn}
1926
         {\printfield{isbn}}
1927
         {}%
1928
       \newunit\newblock
1929
       \usebibmacro{doi+eprint+url}%
1930
       \newunit\newblock
1931
1932
       \usebibmacro{addendum+pubstate}%
1933
       \newunit\newblock
1934
       \usebibmacro{pageref}%
       \usebibmacro{finentry}}
1935
Technical reports
 author
 title
 year
 type
 number
 institution
 address
 url
 note
1936 \DeclareBibliographyDriver{report}{%
       \usebibmacro{bibindex}%
1937
1938
       \usebibmacro{begentry}%
1939
       \usebibmacro{author}%
       \setunit{\labelnamepunct}\newblock
1940
       \usebibmacro{title}%
1941
       \setunit{\addperiod\space}%
1942
       \printfield{type}%
1943
       \newunit
1944
       \printfield{number}%
1945
       \setunit{\addperiod\space}%
1946
1947
       \printlist{institution}%
       \setunit*{\addperiod\space}\newblock
1948
       \printlist{location}%
1949
       \setunit*{\addperiod\space}\newblock
1950
       \printfield{url}%
1951
       \verb|\setunit*{\addperiod\space}\newblock| \\
1952
       \printfield{note}%
1953
1954
       \newunit\newblock
       \usebibmacro{finentry}}%
1955
1956 \DeclareBibliographyAlias{techreport}{report}%
```

thesis bibdriver

report bibdriver

1957 \DeclareBibliographyDriver{thesis}{%

- 1958 \usebibmacro{bibindex}%
- 1959 \usebibmacro{begentry}%
- 1960 \usebibmacro{author}%
- 1961 \setunit{\labelnamepunct}\newblock
- 1962 \usebibmacro{title}%
- 1963 \newunit
- 1964 \printlist{language}%

# Period after title, if any

- 1965 \setunit{\addperiod\space}%
- 1966 \printfield{type}%
- 1967 \setunit\*{\addcomma\space}%
- 1968 \usebibmacro{institution+location+date}%
- 1969 \setunit{\addperiod\space}%
- 1970 \usebibmacro{chapter+pages}%
- 1971 \newunit
- 1972 \printfield{pagetotal}%
- 1973 \newunit\newblock
- 1974 \printfield{url}%
- 1975 \setunit\*{\addperiod\space}\newblock
- 1976 \printfield{note}%
- 1977 \newunit\newblock
- 1978 \usebibmacro{addendum+pubstate}%
- 1979 \newunit\newblock
- 1980 \usebibmacro{pageref}%
- 1981 \usebibmacro{finentry}}

# unpublished bibdriver

- 1982 \DeclareBibliographyDriver{unpublished}{%
- 1983 \usebibmacro{bibindex}%
- 1984 \usebibmacro{begentry}%
- 1985 \usebibmacro{author}%
- 1986 \setunit{\labelnamepunct}\newblock
- 1987 \usebibmacro{title}%
- 1988 \newunit
- 1989 \printlist{language}%
- 1990 \newunit\newblock
- 1991 \printfield{howpublished}%
- 1992 \newunit\newblock
- 1993 \printfield{note}%
- 1994 \newunit\newblock
- 1995 \usebibmacro{date}%
- 1996 \newunit\newblock
- 1997 \iftoggle{bbx:url}
- 1998 {\usebibmacro{url+urldate}}
- 1999 {}%
- 2000 \newunit\newblock
- 2001 \usebibmacro{addendum+pubstate}%
- 2002 \newunit\newblock

```
\usebibmacro{pageref}%
                             2003
                                    \usebibmacro{finentry}}
intitle+booktitle
                 bibmacro
                             2005 \renewbibmacro*{maintitle+booktitle}{%
                                    \iffieldundef{maintitle}
                             2006
                             2007
                                     {\usebibmacro{maintitle}%
                             2008
                                      \addspace
                             2009
                                      \newblock
                             2010
                                      \iffieldundef{volume}
                             2011
                             2012
                                       {\printfield{volume}%
                             2013
                                        \printfield{part}%
                             2014
                                        \addspace
                             2015
                                     }}%
                             2016
                                    \usebibmacro{booktitle}%
                             2017
                                    \newunit}
                             2018
ournal+issuetitle bibmacro
                             2019 \renewbibmacro*{journal+issuetitle}{%
                                    \usebibmacro{journal}%
                             2020
                                    \setunit*{\addspace}%
                             2021
                             2022
                                    \iffieldundef{series}
                             2023
                             2024
                                      {\new unit}
                             2025
                                       \printfield{series}%
                                       \setunit{\addspace}}%
                             2026
                                    \printfield{volume}%
                             2027
                                    \printfield[parens]{number}%
                             2028
                                    \setunit{\addcomma\space}%
                             2029
                                    \printfield{eid}%
                             2030
                             2031
                                    \setunit{\addspace}%
                             2032
                                    \usebibmacro{issue+date}%
                                    \setunit{\addcolon\space}%
                             2033
                             2034
                                    \usebibmacro{issue}%
                                    \newunit}
                             2035
isa:doi+eprint+url
                 bibmacro
                                 \newbibmacro*{emisa:doi+eprint+url}{%
                                    \iftoggle{bbx:doi}
                             2037
                                      {\printfield{doi}}
                             2038
                                      {}%
                             2039
                                    \newunit\newblock
                             2040
                                    \iftoggle{bbx:eprint}
                             2041
                                      {\usebibmacro{eprint}}
                             2042
                             2043
                                      {}%
                                    \newunit\newblock
                             2044
```

\iftoggle{bbx:url}

2045

```
2046 {\usebibmacro{emisa:url+urldate}}
2047 {}}
```

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

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

#### author bibmacro

```
\renewbibmacro*{author}{%
2048
                                                              \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
2049
                                                                        {\left[\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left( {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}c} {\left(\begin{array}{c} {\left(\begin{array}{c} {\left(\begin{array}c {c} {\left(\begin{array}c {c} {\left(\begin{array}c} {\left(\begin{array}c {\left(\begin{array}cc {\left(\begin{array}c} {\left(\right)} {\left( {\left(\begin{array}c\right)} {\left( {\left(\right)} {\left( {\left(\right)} {\left( {\left(\right)} {\left( {\left( {\left(\right)} {\left( {\left(\right)} {\left( {\left(\right)} {\left( {\left(\right)} {\left( {\left(\right)} {\left( {\left(\right)} {\left(\right)} {\left( {\left(\right)} {\left( {\left(\right)} {\left(\right)} {\left( {\left(\right)} {\left( \left(\right)} {\left(\right)} {\left( \left(\right)} {\left( \left(\right)} {\left(\right)} {\left( \left(\right)} {\left( \left(\right)} {\left(\right)} {\left( \left(\right)} {\left(\left(\right)} {\left(\right)} {\left(\left(\right)} {\left(\left(\right)} {\left(\left(\right)} {\left(\right)} {\left(\left(\right)} {\left(\left(\left(\right)} {\left(\left(\right)} {\left(\left(\left(\right)} {\left(\left(\left(\right)} {\left(\left(\left(\right)} {\left(\left(\right)} {\left(\left(\right)} {\left(\left(\right)} {\left(\left(\right)} {\left(\left(\right)} {\left(\left(\right)} {\left(\left(\right)}
2050
                                                                                                                                                                                                       \NOT\iffirstonpage\AND
 2051
2052
                                                                                                                                                                                                       \(\NOT\boolean{bbx@inset}\OR
                                                                                                                                                                                                       \iffieldequalstr{entrysetcount}{1}\)}
 2053
                                                                                            {\bibnamedash}
2054
                                                                                            {\usebibmacro{bbx:savehash}%
2055
                                                                                                      \printnames[emisa:names]{author}%
2056
                                                                                                    \iffieldundef{authortype}
2057
                                                                                                               {\setunit{\addspace}}
2058
2059
                                                                                                               {\setunit{\addcomma\space}%
                                                                                                                         \usebibmacro{authorstrg}%
                                                                                                                         \setunit{\addspace}}}%
2061
                                                                      }{%
 2062
                                                                                \global\undef\bbx@lasthash
2063
                                                                                 \usebibmacro{labeltitle}%
2064
                                                                                 \setunit*{\addspace}}%
2065
                                                              \usebibmacro{date+extrayear}}
2066
```

### bbx:editor bibmacro

```
\renewbibmacro*{bbx:editor}[1]{%
2067
      \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
2068
        {\tt \{\fullhash\}{\tt bbx@lasthash}\AND}
2069
2070
                     \NOT\iffirstonpage\AND
                     \(\NOT\boolean{bbx@inset}\OR
2071
                      \iffieldequalstr{entrysetcount}{1}\)}
2072
          {\bibnamedash}
2073
          {\printnames[emisa:names]{editor}%
2074
           \setunit{\addcomma\space}%
2075
           \usebibmacro{bbx:savehash}}%
2076
         \usebibmacro{#1}%
2078
         \clearname{editor}%
         \setunit{\addspace}%
2079
        }{\global\undef\bbx@lasthash
2080
         \usebibmacro{labeltitle}%
2081
         \setunit*{\addspace}%
2082
        }%
2083
```

```
\usebibmacro{date+extrayear}%
                                   }
                            2085
  bbx:translator bibmacro
                                 \renewbibmacro*{bbx:translator}[1]{%
                                   \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                            2087
                                     {\ifthenelse{\iffieldequals{fullhash}{\bbx@lasthash}\AND
                            2088
                                                   \NOT\iffirstonpage\AND
                            2089
                                  \(\NOT\boolean{bbx@inset}\OR
                            2090
                            2091
                                    \iffieldequalstr{entrysetcount}{1}\)}
                            2092
                                        {\bibnamedash}
                                        {\printnames[emisa:names]{translator}%
                            2093
                                 \setunit{\addcomma\space}%
                            2094
                                 \usebibmacro{bbx:savehash}}%
                            2095
                                      \usebibmacro{translator+othersstrg}%
                            2096
                            2097
                                      \clearname{translator}%
                                      \setunit{\addspace}}%
                            2098
                                     {\global\undef\bbx@lasthash
                            2099
                            2100
                                      \usebibmacro{labeltitle}%
                                      \setunit*{\addspace}}%
                            2101
                                   \usebibmacro{date+extrayear}}
                            2102
blisher+location+date
                 bibmacro
                            2103 \renewbibmacro*{publisher+location+date}{%
                            2104
                                   \printlist{publisher}%
                            2105
                                   \setunit*{\addcomma\space}%
                                   \printlist{location}%
                            2106
                                   \newunit}
                            2107
stitution+location+date
                 bibmacro
                            2108 \renewbibmacro*{institution+location+date}{%
                                   \printlist{institution}%
                            2109
                                   \setunit*{\addcomma\space}%
                            2110
                                   \printlist{location}%
                            2111
                                   \newunit}
                            2112
```

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

# Localization

```
2113 \DefineBibliographyStrings{english}{%
2114 urlseen = {Last Access},
2115 techreport = {},%
2116 }%
2117 \DefineBibliographyStrings{german}{%
2118 urlseen = {Letzter Zugriff},%
2119 techreport = {},%
2120 }%
```

```
2121 \DefineBibliographyStrings{ngerman}{%
2122 urlseen = {Letzter Zugriff},%
2123 techreport = {},%
2124 }%
```

#### Unlocalization

```
2125 % year/month/day
2126 \protected\def\mkbibdateiso#1#2#3{%
      \iffieldundef{#1}{}{%
2127
        \text{thefield}{\#1}\%
2128
        \iffieldundef{#2}{}{-}}%
2129
      \iffieldundef{#2}{}{%
2130
        \mkdatezeros{\thefield{#2}}%
2131
        \iffieldundef{#3}{}{-}}%
2132
      \mkdatezeros{\thefield{#3}}%
2133
2134 }%
2135 \DefineBibliographyExtras{english}{\let\mkbibdateshort\mkbibdateiso}%
2136 \DefineBibliographyExtras{german}{\let\mkbibdateshort\mkbibdateiso}%
2137 \DefineBibliographyExtras{ngerman}{\let\mkbibdateshort\mkbibdateiso}%
```

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

```
2138 (/bbx)
```

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

```
2139 \langle *cbx \rangle
2140 \ProvidesFile{emisa.cbx}[2016/02/06 2.0 EMISA citation style]
2141 \RequireCitationStyle{authoryear-comp}
2142 \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  $\{\sim,;-+/\}$ , 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".

```
2143 \DeclareRangeChars*{f}
```

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

```
2144 \langle / cbx \rangle
2145 \langle / biblatex \rangle
2146 \langle * class \rangle
Here, the LATEX class EMISA ends.
2147 \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.

```
2148 (*template)
2149 (*article)
2150 \documentclass[british]{emisa}
2151 %% You can use the following additional class options:
2152 %% referee, review -- Use for submission to peer-review process.
2153 %% draft -- mark overfull lines
2154 %% british, UKenglish -- British English hyphenation and quotation marks
2155 %% american, USenglish -- American English hyphenation and quotation marks
2156 (/article)
2157 (issue)\documentclass[final,cover]{emisa}
2158 (*article | issue)
2159 %% The following package imports are recommended, but not obligatory;
2160 %% you might want take a look into their respective manuals if you
2161 %% don't know what they do.
2162 \usepackage{amsmath,amssymb,mathtools}
2163 \usepackage{algorithmic,algorithm}
2164 %% Additional package imports go here:
2165 %% \usepackage{}
2166 (/article | issue)
2167 (*issue)
2168 %% Insert here issue data:
2169 \volume{}% Volume No.
2170 \issue{}{}% Issue No. and Issue Date
2171 %% If there are any bibliography data bases to be used globally
2172 %% please indicate here:
2173 \bibliography{}
2174 %% Insert here any (relative or absolute) path to be searched for
2175 %% graphics files:
2176 \graphicspath{{./figs_base/},{}}
2177 %% Here you can alter the cover pages; e.g. this:
2178 %% \coverII{\AtPageDeadCenter{Something}}
2179 %% typesets the word "Something" centered on the inner side of the
```

```
2180 %% front sheet.
2181 %% You can also delete any cover pages at all by defining them empty,
2182 %% see below:
2183 \coverII{}
2184 %% This outputs the SIG-MOBIS page on the inner side of the back
2185 %% sheet:
2186 \coverIII{\AtPageCenter{\sigmobispage}}
2187 (/issue)
2188 (*article | issue)
2189 %% Here, the normal text begins.
2190 \begin{document}
2191 (/article | issue)
2192 (*issue)
2193 \tableofcontents
2194
2195 \begin{editorial}
2196 %% Please insert editorial text here.
2198 \end{editorial}
2199 (/issue)
2200 (*article | issue)
2201 \begin{article}{%
2202 %% Please declare the title elements of your article here. Unused
2203 %% elements can either be deleted or commented out, or else just let
2204 %% empty. In either case they are not typeset.
2205 %% If the option referee or review is given, all author tags, address,
2206 %% e-mail and acknowledgements will be likewise omitted.
2207
      \title[Insert shorttitle for page headline]{Enter full title here}
      \subtitle{Enter subtitle here, or leave empty}
2208
      \author*{FirstName LastName of corresponding author}{email@address.org}
2209
      \address{Enter affiliation of first (corresponding) author here. Note that only the starred v
2210
      %% Author with a different address
2211
      \author{FirstName LastName}
2212
      \address{Enter affiliation of second and further authors here. Add further authors following t
      %% Author with an already used address
2214
      \author{FirstName LastName}
2215
      \address[Letter of already used address]{}
2216
      %% Enter abstract, keywords, acknowledgements, authornotes
2217
      \abstract{Enter abstract here}
2218
      \keywords{Enter at a minimum three keywords here. Keyword1 \and Keyword2 \and Keyword3}
2219
      \acknowledgements{Enter acknowledgements here.}
2220
      \authornote{If your submission is based on a prior publication and revises / extends this work
2221
      %% Please declare here the bibliography data base(s) you want to use
2222
      %% in this article (make sure to add the file extension, e.g. .bib):
2223
      \bibliography{}
2224
      %% Take note of the following closing bracket!
2225
      }
2226
2227 (/article | issue)
2228 (*issue)
```

```
2229
      \editor{My self}
      \received{24 Octover 2014}
2230
      \accepted[2]{1 November 2015}
2231
      \doi{10.5073/EMISA.2011.11.1}
2232
      \license{License information}
2233
      %% or
2234
2235
      \CCBYNCSAThree
      %% or
2236
      \CCBYNCSAFour
2237
2238 (/issue)
2239 (*article | issue)
2240 %% Please insert your article text here.
2241 \section{Introduction}
2242 \subsection{The research problem}
2243 %% Remember to provide a unique label for each section, table, figure, listing and algorithm for
2245 %% This directive typesets the bibliography. To achieve this, one has
2246 5% to run the biber program on the corresponding auxiliary file
2247 %% generated in the previous LaTeX run; you can just use the job name
2248 %% (the name of this file without ".tex")", e.g.: biber emisa-author-template
2249 \printbibliography
2250 %
2251 \end{article}
2252 (/article | issue)
2253 (*issue)
2254
2255 %% Please insert as much article environments here as are needed.
2256 \begin{article}{%
       \title{}
2257
       \subtitle{}
2258
       \author*{<Name>}{<Email address>}
2259
       \address{address line 1\\address line 2}
2260
       % Author with unique address
2261
2262
       \author{<Name>}
       \address{address line 1\\address line 2}
2263
       % Author with the same address as another author
2264
       \author{<Name>}
2265
       \address[a]{}
2266
       \abstract{<Insert abstract>}
2267
       \keywords{Keyword 1 \and keyword 2 \and keyword 3}
2268
       \authornote{This article extends an earlier conference paper, see ...}
2269
       \acknowledgements{}
2270
2271
       \editor{My self}
       \received{24 Octover 2014}
2272
       \accepted[2]{1 November 2015}
2273
       \doi{10.5073/EMISA.2011.11.1}
2274
       \bibliography{}
2275
2276
```

2277

```
2278
2279 \printbibliography
2280 \end{article}
2281
2282 \begin{cfp}
2283 %% Please insert your Call for papers here.
2284 \end{cfp}
2285
2286 \imprint
2287 \editorialboard
2288 \guidelines
2289 \/issue\
2290 \article | issue\\end{document}
2291 \/template\
```