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

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## 1 Introduction

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

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

## 2 Installation

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

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

Automatic installation

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

Manual installation

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

# 3 Instructions and guidelines

This document provides instructions and style guidelines for authors. Follow the instructions and guidelines in the present document to set up your files, to type in your text, to format figures, tables, source code listings and algorithms, and to obtain a consistent visual appearance in accordance with the journal's style specifications. Before submitting your manuscript online to the journal's online submission system at https://emisa-journal.org, use these instructions and guidelines as a checklist. Note that these instructions are *not* intended as a general introduction to LaTeX2e and corresponding tools (see, for example, http://mirror.ctan.org/info/lshort/english/ for "The Not So Short Introduction to LaTeX2e—Or LaTeX2e in 157 minutes").

# 4 Preliminary remarks

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

UTF-8

File naming convention

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

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

Author template

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

# 5 Class Options

american, USenglish

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

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

british, UKenglish

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

referee, review

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

## **6** Author information

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

\author\*

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

# 7 Title, subtitle, abstract, and keywords

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

\abstract \keywords

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

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

\acknowledgements

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

\authornote

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

# 9 Style guidelines for regular text

- Manuscripts should *not* make use of outdated L<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 EMISAJ class (see below). Add punctuation when necessary, for example, write, to achieve the correct punctuation for "id est" (i. e.) rather than, i.e., which introduces two problems: A missing spacing after the first full stop and a wrong spacing after the second full stop.
- ▶ Follow the journal's style specification with respect to predefined text styles:
  - Use smallcaps for names of open-source projects, products and companies etc., e.g., \textsc{eclipse} to produce ECLIPSE. Pay attention to lower case spelling.

\meta

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

\type

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

## 10 Abbreviations and initialisms

\eg,\ie,\cf,\etal

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

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

\emisaabbrv

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

\OMG,\BPM,\BPMN,\UML

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

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

**\emisainitialism** 

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

## 11 Quotation marks

\enauote

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

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

#### 12 Citations and references

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

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

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

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

# 13 Figures

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

## 14 Tables

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

Listing 1: An example for a standard table using tabular

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

tabularx

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

Listing 2 shows two typical examples for the application of tabularx. If you just mark one column with the parameter X, all other columns (i. e. columns with parameters p, 1, c or r) are set the usual way. The remaining width (width given as first argument to tabularx minus used width of all "non-X-columns") is then assigned to the X column. To get a table two columns wide, please use \textwidth as the table's width.

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

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

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

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

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

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

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

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

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

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

# 15 Source code listings

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

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

Listing 5: Example for the java and sourcecode environments

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

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

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

# 16 Pseudo-code and algorithms

algorithm algorithmic

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

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

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

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

results in

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

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

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

# 17 Commands for use by the editorial office staff only

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

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

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

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

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

# 18 Example file for both, authors and editorial office

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

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

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

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

## References

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

## 19 Implementation

Here, the code of the LATEX class emisa begins.

```
1 (*class)
```

## 19.1 Options

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

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

draft option
final option
@draft switch

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

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

31 \newif\if@draft

```
32 \DeclareOption{draft}{%
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

40 \newif\if@referee

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

cover option nocover option

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

\coveron
\coveroff
@cover switch

45 \newif\if@cover

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

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

- 53 \PassOptionsToClass{a4paper,twoside,11pt}{article}%
- 54 \DeclareOption\*{\PassOptionsToClass{\CurrentOption}{article}}%
- $\verb|\ExecuteOptions{american, final, noreferee, no cover, one side, open any}| % \\$
- 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  $2_{\varepsilon}$  distribution.

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

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

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

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

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

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

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

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

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

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

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

#### 19.2.1 Colour and graphics

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

76 \RequirePackage{graphicx}%

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

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

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

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

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

78 \RequirePackage{etoolbox}%

We use it with these options:

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

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

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

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

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

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

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

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

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

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

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

99 \RequirePackage[autostyle=once]{csquotes}

#### **19.2.2** Helpers

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

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

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

101 \RequirePackage{environ}%

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

The options' meanings are as follows:

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

defblank The two environments inparablank and asparablank will be defined.

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

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

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

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

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

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

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

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

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

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

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

113 \RequirePackage{afterpage,xspace,calc}%

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

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

114 \RequirePackage{geometry}%

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

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

#### 19.2.3 Scripts, fonts, and maps

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

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

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

#### 19.3 Hypertext

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

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

```
153
     linkcolor=black,
     anchorcolor=black,
154
     citecolor=black,
155
     filecolor=black,
156
     urlcolor=black,
157
     hyperfootnotes=false
158
     ]{hyperref}%
159
   \RequirePackage[%
160
      type={CC},%
161
162
      modifier={by-nc-sa},%
      version={4.0}%
163
164 ]{doclicense}
```

#### **19.4** Tools

\@ifempty
 \@ifarg
\@ifnoarg

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

#### Syntax

```
\label{eq:carg} $$ {\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\arg}_{\
```

# 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.

```
172 \geometry{%
173
      a4paper,%
      portrait,%
174
175
      twoside,%
      ignoreall,%
176
      hcentering,%
177
178
      textwidth
                       = 162.5 \text{mm}, \%
      textheight
                       = 220mm,\%
179
```

```
180
     heightrounded,%
181
     columnsep
                     = 12.5 \text{mm}, \%
                     = 47mm, %
182
     top
     headheight
                     = 16mm, \%
183
     headsep
                     = 13mm,\%
184
     marginparwidth = 15mm,%
185
     marginparsep
                     = 5 \text{mm}, \%
186
     footskip
                     = 16mm\%
187
      }%
   \marginparpush 5mm%
   \AtBeginDocument{\baselineskip=13.6pt plus 0.5pt}%
191 \parindent=4mm%
192 \smallskipamount=.5\baselineskip
193 \medskipamount=2\smallskipamount
194 \bigskipamount=2\medskipamount
195 \flushbottom
   \abovedisplayskip=.5\baselineskip plus .33\baselineskip
196
                                        minus .33\baselineskip
197
198 \belowdisplayskip=\abovedisplayskip
   \abovedisplayshortskip= Opt plus .33\baselineskip
   \belowdisplayshortskip=.5\baselineskip plus .33\baselineskip
                                             minus .33\baselineskip
201
```

## 19.6 Scripts

```
\pageheadfont
                          Assigning scripts to text elements.
                          Page head and foot:
           \pagenumfont
          \pagefootfont
                            202 \def\pageheadfont{\normalfont}%
                            203 \def\pagenumfont{\pageheadfont\bfseries}%
                            204 \def\pagefootfont{\pageheadfont}%
                          The elements of the article titles:
            \authorfont
             \titlefont
                            205 \def\authorfont{\normalfont\Large}%
          \subtitlefont
                            206 \def\titlefont{\normalfont\bfseries\LARGE\boldmath}%
          \abstractfont
                            207 \def\subtitlefont{\normalfont\bfseries\Large\boldmath}%
                            208 \def\abstractfont{\normalfont\itshape}%
                          The elements of the affiliation box:
       \affiliationfont
 \affiliationauthorfont
                            209 \def\affiliationfont{\normalfont}
\affiliationaddressfont
                            210 \def\affiliationauthorfont{\bfseries}
  \affiliationemailfont
                            211 \def\affiliationaddressfont{\mdseries}
                            212 \def\affiliationemailfont{\mdseries}%
```

```
\sectionfont Section headlines:
              \sec@font
                           213 \def\sectionfont{%
             \para@font
                                 \normalfont
                           214
                                 \bfseries
                           215
                                 \boldmath}%
                           217 \def\sec@font{\sectionfont\large}%
                           218 \def\para@font{\sectionfont}%
          \captionfont Captions:
                           219 \def\captionfont{\normalfont\small\itshape}
                          19.7 Colours
                          These are the colour definitions for a couple of elements.
                          The colours of the cover background (near 25% grey) and cover text (such as headlines, near 75% grey):
     coverbgcolor color
   covertextcolor color
                           220 \definecolor{coverbgcolor}{cmyk}{0.15,0.1,0.09,0}%
                           221 \definecolor{covertextcolor}{cmyk}{0.77,0.76,0.70,0.61}%
    headtextcolor 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).
    boxframecolor color
       boxbgcolor color
                           222 \definecolor{headtextcolor}{gray}{0.5}%
                           223 \definecolor{boxframecolor}{gray}{1}%
                           224 \definecolor{boxbgcolor}{gray}{0.8}%
                          19.8 Double line spacing
   \displayskipstretch
\setdisplayskipstretch
                           225 \newcommand{\displayskipstretch}{\baselinestretch}
                           226 \newcommand{\setdisplayskipstretch}[1]{\def\displayskipstretch{#1}}
           \setstretch Line space commands.
                           227 \newcommand{\setstretch}[1]{%
                                 \def\baselinestretch{#1}%
                                 \@currsize
                           229
                           230 }
              \@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:** 

 $\label{eq:current_size} $$ \ensuremath{\tt General} {\langle font\ baselineskip \rangle} {\langle font\ size \rangle} $$$ 

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.

```
231 \def\@setsize#1#2#3#4{%
     \@nomath#1%
232
     \let\@currsize#1%
233
     \baselineskip #2%
234
     \baselineskip=\baselinestretch\baselineskip
235
     \parskip=\baselinestretch\parskip
236
     \setbox\strutbox \hbox{%
237
       \vrule height.7\baselineskip
238
               depth.3\baselineskip
239
240
               width\z@}%
     \skip\footins=\baselinestretch\skip\footins
241
     \normalbaselineskip\baselineskip#3#4}
242
```

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

```
243 \everydisplay\expandafter{%
244 \the\everydisplay
245 \abovedisplayskip \displayskipstretch\abovedisplayskip
246 \belowdisplayskip \displayskipstretch\belowdisplayskip
247 \abovedisplayshortskip \displayskipstretch\abovedisplayshortskip
248 \belowdisplayshortskip \displayskipstretch\belowdisplayshortskip
249 }
```

#### 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.

 ${\tt 251 \setminus journal name \{Enterprise \ Modelling \ and \ Information \ Systems \ Architectures\}\%}$ 

\journalsubtitle The journal's subtitle.

253 \journalsubtitle{International Journal of Conceptual Modeling}%

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

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

```
 \label{longdef} $$254 \leq \lceil \frac{41}{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensure
```

255 \issn{%ISSN 1860-6059 (Print)\par

```
Volume number.
                   \volume
                              257 \def\volume#1{\@bsphack\def\@volume{#1}\@esphack}%
                              258 \volume{\textcolor{red}{0}}%
                    \issue Issue number and date.
                              259 \def\issue#1#2{\@bsphack
                                    \def\@issue{#1}\%
                                     \def\@issuedate{#2}%
                              262
                                    \@esphack}%
                              \label{lem:color} $$ \sue{\text{\color}{red}_{0}}_{\text{\color}{red}_{month} 0000}} %
      \specialissuetitle
                            If the current issue is a special issue, the respective title goes here.
     \specialissuetitle*
                              264 \def\specialissuetitle{\@ifstar\@sspit\@spit}%
\specialissuetitleprefix
                              265 \newcommand{\@spit}[2][]{%
                              266
                                    \@bsphack
                                    \@ifempty{#2}%
                              267
                                      {\let\@specialissuetitle\relax}%
                              268
                              269
                                      {\@ifempty{#1}%
                                        {\def\@specialissuetitle{\@specialissuetitleprefix#2}}%
                              270
                                        {\def\@specialissuetitle{#1\space#2}}}%
                              271
                                     \@esphack}%
                              273 \newcommand{\@sspit}[2][]{%
                              274
                                     \@bsphack
                                    \ensuremath{\texttt{@ifempty}}{\#2}\%
                              275
                                      {\let\@specialissuetitle\relax}%
                              276
                                      {\def\@specialissuetitle{#2}}%
                              277
                                     \@esphack}%
                              278
                              279 \newcommand{\specialissuetitleprefix}[1]{%
                                    \@bsphack
                              280
                                     \ensuremath{\text{@ifempty}}{\#1}\%
                               281
                                        {\let\@specialissuetitleprefix\relax}%
                              282
                                        {\def\@specialissuetitleprefix{#1\space}}%
                              283
                                    \@esphack}%
                              284
                              285 \specialissuetitle{}%
                              286 \specialissuetitleprefix{Special Issue on}%
           \copyrightyear
                             Copyright owner and year.
         \copyrightholder
                              287 \def\copyrightyear#1{\@bsphack\def\@copyrightyear{#1}\@esphack}%
                              288 \copyrightyear{\the\year}%
                              289 \def\copyrightholder#1{\@bsphack\def\@copyrightholder{#1}\@esphack}%
                              290 \copyrightholder{\textcolor{red}{\copyright{}holder}}%
                             Title, subtitle, and author information for the current article.
                   \title
                \subtitle
                             These macros are a bit special as they accept up to two optional arguments together with the obligatory
                   \author
                             one. The optional arguments are for the running-title (short) and the table-of-contents (ToC) versions,
                             respectively, of the main entry, if there is any:
```

256

ISSN 1866-3621 (Online)}%

#### **Syntax:**

```
\label{lem:condition} $$ \tilde{\colored}_{(short_subtitle)} {\colored}_{(subtitle)} {\colored}_{(subtitle)} $$ \author[\langle short_author \rangle] [\langle ToC_author \rangle] {\langle author \rangle} $$
```

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.

```
291 \renewcommandtwoopt*{\title}[3][][]{%
292
     \@bsphack
     \def\@title{#3}%
293
     \@ifempty{#1}{\def\@shorttitle{\@title}}{\def\@shorttitle{#1}}%
294
295
              \@esphack}%
296
   \newcommandtwoopt*{\subtitle}[3][][]{%
297
     \@bsphack
298
299
     \def\@subtitle{#3}%
     \@ifempty{#1}{\def\@shortsubtitle{\@subtitle}}{\def\@shortsubtitle{#1}}%
300
     \@ifempty{#2}{\def\@tocsubtitle{\@shortsubtitle}}{\def\@tocsubtitle{#2}}%
     \@esphack}%
302
   \def\end{1}1111
303
      \ifx\@email\@empty
304
         \def\@email{#1}
305
      \else
306
307
         \ClassError{emisa}{There can only be one corresponding author!}{}
308
   \renewcommand{\author}{\@ifstar{\@authorstar}}\@authornostar}}
   \newcommand*{\@authornostar}[1]{%
     \@bsphack
311
     \if@referee
312
       \def\@authors{}%
313
       \def\@shortauthors{}
314
315
         \gdef\@address@sep{}%
316
         \ifx\@authors\@empty
317
             \protected@xdef\@authors{#1}
318
             \protected@xappto\@shortauthors{#1}
319
         \else
320
             \protected@xappto\@authors{,\space #1}
321
             \protected@xappto\@shortauthors{,\space #1}
322
         \fi%
323
     \fi
324
     \@esphack}%
326 \newcommandtwoopt*{\@authorstar}[3][][]{%
```

```
327
       \@bsphack
        \if@referee
328
          \def\@authors{}\%
329
          \def\@shortauthors{}%
330
          \def\@tocauthors{}%
331
          \def\@email{}%
332
333
        \else
          \gdef\@address@sep{}%
334
          \ifx\@authors\@empty
              \protected@xdef\@authors{#3\textsuperscript{*,}}
336
              \protected@xappto\@shortauthors{#3}
337
         \else
338
              \protected@xappto\@authors{,\space #3\textsuperscript{*,}}
339
              \protected@xappto\@shortauthors{,\space #3}
340
          \fi%
341
342
          \@ifempty{#1}{\def\@shortauthor{\@shortauthors}}{\def\@shortauthor{#1}}%
          \@ifempty{#2}{\def\@tocauthor{\@shortauthors}}{\def\@tocauthor{#2}}%
343
       \fi
345
        \@esphack
        \@ifnextchar\bgroup\email{\ClassError{emisa}{Please provide an email address for the correspondent
346
   \newcommand{\keywords}[1]{
347
      \@bsphack
348
      \def\and{\unskip\ \textbullet\ }%
349
      \def\@keywords{#1}%
350
351
      \@esphack}%
   \newcommand{\authornote}[1]{
353
      \@bsphack
354
      \if@referee
         \def\@authornote{}%
355
      \else
356
          \def\@authornote{#1}%
357
358
      \@esphack}%
359
360
   \newcommand{\editor}[1]{
      \@bsphack
361
      \def\@articleinfo@name{#1}%
362
      \@esphack}%
363
   \newcommand{\received}[1]{
364
      \@bsphack
365
      \def\@articleinfo@rdate{#1}%
366
      \@esphack}%
367
   \newcommand{\accepted}[2][]{
368
      \@bsphack
369
      \def\@articleinfo@rounds{#1}
370
      \def\@articleinfo@adate{#2}%
371
      \@esphack}%
372
373 \newcommand{\doitext}{DOI:}
374 \newcommand*{\outdoi}{%
     \begingroup
```

375

```
376
                             \c) = \c) #\relax
377
                              \label{def-{\#}}%
                              \c) \sim \c) 
378
                              \lowercase{\def~{\_}}%
379
                              \lccode`\~=`\<\relax</pre>
380
                              \lowercase{\def~{\textless}}%
381
                              \lccode`\~=`\>\relax
382
                              \lowercase{\def~{\textgreater}}%
383
                              \lccode`\~=0\relax
384
385
                             \catcode`\#=\active
                              \catcode`\_=\active
386
                             \catcode`\<=\active
387
                             \catcode`\>=\active
388
                              \@outdoi
389
390 }
391 \def\@outdoi#1{%
                             \let\#\relax
392
393
                             \left\langle \cdot \right\rangle /relax
394
                             \let\textless\relax
                             \let\textgreater\relax
395
                             \edsext{toks0={{#1}}}%
396
397
                             \edef\#{\@percentchar23}%
398
                             \left\{ -\left\{ _{-}\right\} \right\} 
399
                              \edef\textless{\@percentchar3C}% instead of {\string<} for Apple
400
                              \edef\textgreater{\@percentchar3E}% instead of {\string>} for Apple
401
                              \ensuremath{\texttt{http://dx.doi.org/#1}}}%
402
403
                             \x
                              \end{argministic} \end{argministic} \end{argministic} $$\end{argministic} $$\end{arg
404
405
406 }
                  \newcommand*{\doi}[1]{
407
                                   \@bsphack
408
409
                                   \def\@doi{#1}
                                   \@esphack}%
410
                  \newcommand{\acknowledgements}[1]{
411
                                   \@bsphack
412
                                   \def\@acknowledgements{#1}
413
                                   \@esphack}%
414
415 \newif\if@licenseset
                  \newcommand{\licence}[1]{%
416
                                  \@bsphack
417
                                   \def\@licence{#1}
418
                                   \@esphack}%
419
420 \let\license\licence
                  \newcommand{\CCBYNCSAThree}{%
421
                                  \@licensesettrue%
422
                                   \def\doclicense@type{CC}%
423
                                  \def\doclicense@modifier@uppercase{BY-NC-SA}%
424
```

```
\def\doclicense@versionUsed{3.0}%
425
426 }%
   \newcommand{\CCBYNCSAFour}{%
427
      \@licensesettrue%
428
      \def\doclicense@type{CC}%
429
      \def\doclicense@modifier@uppercase{BY-NC-SA}%
430
      \def\doclicense@versionUsed{4.0}%
431
432 }%
   \newcounter{addresses}
   \renewcommand{\theaddresses}{\alph{addresses}}
   \newcommand{\address}[2][]{%
435
     \@bsphack
436
     \if@referee
437
        \def\@addresses@list{}
438
     \else
439
        \@ifempty{#2}{%
440
            \@ifempty{#1}{}{%
441
                 \protected@xappto\@authors{\textsuperscript{\@address@sep #1}}
442
443
                 \gdef\address@sep{,}%
         }}{%
444
              \stepcounter{addresses}
445
              446
              \gdef\@address@sep{,}%
447
              \ifx\@addresses@list\@empty
448
                  \protected@xdef\@addresses@list{\textsuperscript{\theaddresses}\ #2}
449
450
              \else
                  \protected@xappto\@addresses@list{\newline\textsuperscript{\theaddresses}\ #2}
451
452
              \fi}
     \fi
453
     \@esphack}%
454
455 \title{}%
456 \subtitle{}%
457 \author{}%
458 \address{}
459 \keywords{}%
460 \authornote{}%
461 \editor{}%
462 \received{}%
463 \accepted{}%
464 \doi{}%
465 \licence{}
466 \acknowledgements{}%
   468 \abstract{}%
469 \def\@authors{}
470 \def\@shortauthor{}
471 \def\@shortauthors{}
472 \def\@tocauthor{}
```

473 \def\@tocauthors{}

```
474 \def\@email{}
475 \def\@addresses@list{}

\abstract This accepts the abstract text.

476 \def\abstract#1{\@bsphack\def\@abstract{#1}\@esphack}%

477 \abstract{}%
```

\outputarticleappendix
\@articleappendix
\@wrap@articleappendix
articleappendix

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

```
478 \DeclareRobustCommand{\outputarticleappendix}{%
479
      \appendix
480
481 \@articleappendix
   \global\let\@articleappendix\relax
     }%
483
484 }%
485 \long\def\@wrap@articleappendix#1{\gappto{\@articleappendix}{{#1}}}
   \newenvironment{articleappendix}{%
486
     \gappto{\@articleappendix}{\clearpage}%
487
     \Collect@Body\@wrap@articleappendix}{}
   \newenvironment{articleappendix*}{%
489
     \Collect@Body\@wrap@articleappendix}{}
490
491 \let\@articleappendix\relax
492 \def\@makefnmark{\textsu{\@thefnmark}\ }%
   \renewcommand\@makefntext[1]{%
493
       \parindent 1em%
494
        \noindent%
495
        \@makefnmark#1}%
496
```

#### 19.9.2 Page styles

This is the standard page style:

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

Line 1, inner side:

```
    ▷ left pages: journal's subtitle;
    ▷ right pages: journal name.
    outer side: no text.
    Line 2, inner side: volume/number/issue date, text colour is 50 % grey;
    outer side: no text.
    Line 3, inner side:
    ▷ left pages: section name;
    ▷ common right pages: author's name(s);
```

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

text colour is 50 % grey;

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

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

\headwidth \headmargin

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

\bleed

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

\footrulewidth

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

\headfootruleheight

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

- 497 \newlength{\headwidth}%
- 498 \newlength{\bleed}%
- 499 \newlength{\headmargin}%
- 500 \newlength{\footrulewidth}%
- 501 \newlength{\headfootruleheight}%
- 502 \setlength{\bleed}{3mm}%
- 503 \setlength{\headfootruleheight}{0.4mm}%

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

- 504 \AtBeginDocument{%
- 505 \setlength{\headwidth}{\paperwidth+2\bleed}%
- 507 \setlength{\footrulewidth}{0.5\headwidth+0.5\textwidth}}%

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

- 508 \newcommand{\headbox}[8]{\bgroup%
- 509 \setstretch{1}%
- 510 \reset@font\pageheadfont
- 511 \tabcolsep\z@
- 512 \arrayrulewidth\headfootruleheight
- 513 \hskip-\headmargin
- 514 \begin{tabular\*}{\headwidth}[b]%
- $\{0{\text{\ensuremath{\lower.0515}}} \{0{\text{\ensuremath{\lower.0515}}} \}$
- $>{\text{cle}[-1.25mm]}_{\text{sm}-\arrayrulewidth}}$ %

- 519 #1 & #2\\
- 520 \hline
- **521** #3 & #4\\

```
522
                            \hline
                            #5 & #6\\
                    523
                            \hline
                    524
                            #7 & #8\\
                    525
                          \end{tabular*}%
                    526
                          \hskip-\headmargin
                    527
                          \egroup
                    528
                    529 }%
  \theheadvolume
                   These macros are used to assemble the page head, ...
 \headpageoffset
                    530 \newcommand{\theheadvolume}{%
 \theoddheadpage
                          \begingroup%
                    531
\theevenheadpage
                          \hypersetup{urlcolor=headtextcolor}%
                    533
                          \textcolor{headtextcolor}{%
                             Vol.\,\@volume, No.\,\@issue\ (\@issuedate).%
                    534
                             \ifx\@doi\@empty\else\ \outdoi{\@doi}\fi}\%
                    535
                          \endgroup}%
                    536
                    537 \newlength{\headpageoffset}%
                    538 \setlength{\headpageoffset}{10mm}%
                    539 \def\theoddheadpage{%
                          \rlap{\makebox[\headpageoffset][r]{\pagenumfont\thepage}}}%
                    540
                    541 \def\theevenheadpage{%
                          \llap{\makebox[\headpageoffset][1]{\pagenumfont\thepage}}}%
                  ... and these are for the page foot.
 @footrule switch
    \footruleoff
                    543 \newif\if@footrule%
     \footruleon
                    544 \def\footruleoff{\global\@footrulefalse}%
       \footrule
                    545 \def\footruleon{\global\@footruletrue}%
                    546 \def\footrule#1{%
                          \if@footrule
                    547
                            \makebox[\textwidth][#1]{%
                    548
                              \reset@font
                    549
                              \rule[\headfootruleheight]{\footrulewidth}{\headfootruleheight}%
                    550
                              }\fi}%
                    551
  \headmarkstyle
                   Sets the content marks in the running titles.
       \markhead
                    552 \def\headmarkstyle#1{\@bsphack
    \markarticle
                          \def\@headmarkstyle{#1}%
  \markeditorial
                          \@esphack}%
                    554
                    555 \headmarkstyle{\color{headtextcolor}}%
                    556 \def\markhead#1#2{\@bsphack
                          \gdef\@evenmark{#1}%
                    557
                          \gdef\@oddmark{#2}%
                    558
                          \@esphack}%
                    559
                    560 \def\markarticle{\markhead{\@shortauthor}{\@shorttitle}}%
                    561 \def\markeditorial{\markhead{\@shorttitle}{\@shorttitle}}%
```

\ps@emisa Finally that all being thrown together gives the basic page style.

```
\def\ps@emisa{%
                          \def\@oddhead{%
563
                                   \headbox{\@journalname}{}%
564
                                                                        {\theheadvolume}{}%
565
                                                                         {{\@headmarkstyle\@oddmark}}{\theoddheadpage}%
566
                                                                         {\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\fi
567
                          }%
568
                          \def\@evenhead{%
569
                                   \headbox{}{\@journalsubtitle}%
                                                                        {}{\theheadvolume}%
571
                                                                         {\colored{\colored} $\{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\color
572
                                                                        {}{\ifx\@specialissuetitle\relax\else\textcolor{headtextcolor}{\@specialissuetitle}\:
573
                         }%
574
                          \let\@oddmark\relax
575
                         \let\@evenmark\relax
576
577
                          \def\@oddfoot{\footrule{r}}%
                          \def\@evenfoot{\footrule{1}}%
578
579 }%
```

## \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.

```
580 \def\ps@emisaarticle{%
581
      \ps@emisa
      \markarticle
582
     \footruleoff
583
584 }%
585 \def\ps@emisaeditorial{%
586
      \ps@emisa
      \markeditorial
587
     \footruleon
588
589 }%
590 \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.

```
591 \def\basecoverfont{\normalfont\sffamily}%
592 \def\covervolumefont{%
593 \basecoverfont\fontsize{6mm}{6mm}\selectfont}%
594 \def\covertitlefont{%
595 \basecoverfont\bfseries\fontsize{11mm}{16.5mm}\selectfont}%
```

```
These are names for background graphics and logos. As these are subject to be changed from time to
      \coverIbgname
     \coverIVbgname
                       time these adjustments are put into the base config file, too.
  \sigmobislogoname
                         596 \def\coverIbgname{U1_bg}%
       \gislogoname
                         597 \def\coverIVbgname{U4_bg}%
                         598 \def\sigmobislogoname{SIG-MOBIS-logo-300}%
                         599 \def\sigEMISAlogoname{EMISA-Logo-svg}%
                         600 \def\gislogoname{GIS-logo_with_text-300}%
                       \AtPageDeadCenter centers its argument horizontally and vertically around the geometric page center.
  \AtPageDeadCenter
         \page@empty
                       This macro is to be used inside some eso-pic ShipoutPicture.
                         601 \newcommand{\AtPageDeadCenter}[1]{%
                                 \AtPageCenter{\makebox[\z@][c]{%
                         602
                                   \raisebox{-0.5}\totalheight}[\z@][\z@]{#1}}%
                         603
                         604 }%
                         605 \def\page@empty{\relax}%
                       Background color for one whole page plus bleed.
                         606 \newcommand{\pagebg}[1]{%
                         607
                               \AtPageDeadCenter{%
                                 \textcolor{#1}{\rule{\paperwidth+2\bleed}{\paperheight+2\bleed}}}}%
                         608
                       \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).
                         609 \newcommand{\thispagebackground}[2][]{%
                               \ensuremath{\ensuremath{\text{@ifarg}\{\#1\}\{\text{thispagestyle}\{\#1\}\}\%}
                         610
                         611
                               \AddToShipoutPicture*{%
                                 \unitlength 1mm\relax%
                         612
                                 {#2}%
                         613
                         614 }}%
                       \picturepage additionally empties and flushes the running page, thus producing a picture-only page.
       \picturepage
                         615 \newcommand{\picturepage}[2][empty]{%
                               \thispagebackground[#1]{#2}%
                               \null\clearpage
                         617
                         618 }%
  \inputpagegraphic This loads a picture file to generate a picture-only page from.
                         619 \newcommandtwoopt*{\inputpagegraphic}[3][empty][]{%
                               \thispagebackground[#1]{\includegraphics[width=\paperwidth,#2]{#3}}%
                         621
                               \null\clearpage
                         622 }%
          \coverpage \coverpage is a special form of the \picturepage:
                         623 \newcommand{\coverpage}[2][]{%
                               \@ifarg{#1}{\setcounter{page}{#1}}%
                               \picturepage{#2}%
                         625
```

626 }%

## \thecovervolumeline These represent the

\thecovertitle

```
627 \newcommand{\thecovervolumeline}{%
628
     \parbox[t]{130mm}{%
       \raggedright
629
       \color{covertextcolor}\covervolumefont%
630
       Volume\space\@volume
631
       \enspace\rule[-1mm]{0.5mm}{6mm}\enspace
632
       No.\,\@issue\space\textbf{\@issuedate}\\[3mm]%
633
       \@specialissuetitle
634
     }%
635
636 }%
   \def\thecovertitle{%
637
     \parbox[t][30mm][s]{174mm}{%
638
639
       \color{covertextcolor}%
       \covertitlefont
640
       \raggedright\@journalname\par
641
642
       \vskip8mm
       \covervolumefont
643
       \raggedleft
644
       \textbf{An International Electronic Journal\,}}}
645
```

\sigmobispage

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

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

```
646 \def\sigmobispage{%
     \mbox[\z@][c]{\%}
647
       \begin{minipage}[c][260mm][s]{\textwidth}
648
         \sigmobispagehead
649
         \medskip
650
651
         The GI-SIG-MoBIS portal provides numerous resources on enterprise
652
         modelling research, such as a full-text digital library, a
653
         bibliography, conference announcements, a glossary and evaluation
654
         reports. It is intended to establish the premier forum for an
655
         international community in enterprise modelling. The new version
656
         is based on a Content Management System allowing authorized users
657
         to conveniently upload content. A \BibTeX{} interface allows for
658
         conveniently integrating bibliographic data. Information about
659
         this journal, such as guidelines for authors, tables of content
660
         and full-text access to articles (for GI-SIG-MobIS members only)
661
         are also available on the~portal.
662
         \par
663
         \medskip
664
665
```

```
\begin{center}
                     666
                                  \includegraphics{GI-SIG-MOBIS_portal}
                     667
                                \end{center}
                     668
                     669
                               \medskip
                     670
                     671
                     672
                               GI encourages everybody who wants to participate in the
                                evolution of this community knowledge base to contribute to any of
                     673
                           the categories covered by the portal. Please contact Michael He\ss{}
                           (\href{mailto:m.hess@uni-duisburg-essen.de}{m.hess@uni-duisburg-essen.de})
                      675
                           for further~information.
                     676
                     677
                               \vfill
                     678
                     679
                               \sigmobispagefoot
                     680
                     681
                             \end{minipage}%
                           }%
                     682
                     683 }
\sigmobispagehead
                    Elements of \sigmobispage.
\sigmobispagefoot
                     684 \def\sigmobispagerule#1{%
\sigmobispagerule
                     685 \parbox[c][23mm][s]{\linewidth}{%
                     686
                           \centering
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}%
                     687
                           \par\vfill
                     688
                     689
                           \raisebox{-.4\height}[.5\totalheight][.5\totalheight]{\huge#1}%
                           \par\vfill
                     690
                           \textcolor{gray}{\rule{.92\linewidth}{1mm}}}\par}%
                     691
                     692 \def\sigmobispagehead{\sigmobispagerule{SIG-MoBIS Portal}}
                     693 \def\sigmobispagefoot{\sigmobispagerule{http://wi-mobis.gi-ev.de/}}
                    Each of these prepares one of the cover pages.
          \coverI
         \coverII
                     694 \def\coverI#1{\@ifempty{#1}%
        \coverIII
                            {\let\@coverI\relax}%
                     695
         \coverIV
                            {\def\@coverI{\coverpage[-2]{#1}}}}%
                     697 \def\coverII#1{\@ifempty{#1}%
                            {\let\@coverII\relax}%
                     698
                            {\def\@coverII{\coverpage[-1]{\#1}}}}\%
                     699
                     700 \def\coverIII#1{\@ifempty{#1}%
                            {\let\@coverIII\relax}%
                     701
                            {\def\@coverIII{\coverpage{#1}}}}%
                     702
                     703 \def\coverIV#1{\@ifempty{#1}%
                            {\let\@coverIV\relax}%
                     704
                            {\def\@coverIV{\coverpage{#1}}}}%
                     705
                    So we prepare the four cover pages.
                     706 \coverI{%
                           \pagebg{coverbgcolor}%
                     707
                           \AtPageUpperLeft{%
                     708
```

```
709
       \raisebox{-\totalheight}{\includegraphics{\coverIbgname}}}%
     \AtPageUpperLeft{\put(17,-28){\mbox{%
710
       \includegraphics[height=19mm]{\sigmobislogoname}%
711
       \hspace{5mm}%
712
       \includegraphics[height=14.75mm]{\sigEMISAlogoname}%
713
       }}%
714
715
     \AtPageLowerLeft{\put(166,9){\includegraphics{\gislogoname}}}%
716
     \AtPageLowerLeft{\put(17,44){\thecovervolumeline}}%
     \AtTextLowerLeft{\put(-28,36){\framebox(200,62)[c]{}}}
718
     \AtPageLowerLeft{\put(17,112){\thecovertitle}}%
719
720 }%
721 \coverII{\page@empty}%
722 \coverIII{\AtPageCenter{\sigmobispage}}%
   \coverIV{%
723
     \pagebg{coverbgcolor}%
724
     \AtPageLowerLeft{%
725
       \raisebox{167mm}{\includegraphics{\coverIVbgname}}}%
726
727
     \AtPageLowerLeft{%
       \put(6,9){\put(6,9){\put(6,9)}{\normalfont{arge\sffamily\@issn}}}
728
     \AtPageLowerLeft{%
729
        \put(166,9){\includegraphics{GIS-logo_with_text-300}}}}%
730
731 }%
732 \if@cover
     \AtBeginDocument{%
733
       \@coverI\@coverII
734
735
       \setcounter{page}{1}%
736
     \AtEndDocument{%
737
738
       \@coverIII\@coverIV
     }%
739
740 \fi
```

\graphicspath

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

```
741 \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.

```
742 \newcounter{article}%
743 \@addtoreset{section}{article}%
744 \@addtoreset{footnote}{article}%
```

```
745 \@addtoreset{figure}{article}%
                             746 \@addtoreset{table}{article}%
article This encapsulates each article.
                             747 \newenvironment{article}[1]{%
                                            \clearpage
                                            \refstepcounter{article}%
                             749
                                            \pagestyle{emisaarticle}%
                             750
                                            \col@number=\tw@\relax
                             751
                                            #1\relax
                             752
                                            \l@article
                             753
                         Every article is its own bibliographical unit.
                                            \begin{refsection}%
                                            \maketitle
                             755
                                            \ignorespaces
                             756
                             757
                                            \end{refsection}%
                             758
                                             \outputarticleappendix\FloatBarrier\par%
                             759
                                            \vspace{\baselineskip}%
                             760
                                             \noindent\ignorespaces
                             761
                                            \if@licenseset
                             762
                                                     \edef\doclicenseURL{%
                             763
                                                             \doclicense@baseUrlCC/%
                             764
                                                             licenses/%
                             765
                                                             \doclicense@modifier/%
                             766
                                                             \doclicense@versionUsed\doclicense@UrlLangPart%
                             767
                             768
                             769
                                                    \begin{minipage}{\columnwidth}
                                                     \parbox[t]{\dimexpr 0.975\columnwidth-\doclicense@imagewidth\relax}{\vskip 0pt\raggedright\:
                             770
                                                             \doclicense@lang@thisDoc\space
                             771
                                                             \label{localize} $$ \end{Type\space} \end{Type\space} \end{Localize} $$ \end{Type\space} $$ \end{Type\sp
                             772
                                                             \doclicense@lang@word@license.}%
                             773
                                                     \hfill%
                             774
                             775
                                                     \parbox[t]{\doclicense@imagewidth}{\vskip 0pt\doclicenseImage}%
                                                     \end{minipage}%
                             776
                             777
                             778
                                                     \ifx\@licence\@empty\relax\else\par\noindent\@licence\fi%
                             779
                                            \fi%
                                            \onecolumn
                             780
                                             \ignorespacesafterend}%
                             781
                         19.9.5 Formatting editorial content
```

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

```
782 \newcommandtwoopt{\edit@setup}[3][][]{%
783 \title[#1][#2]{#3}
784 \pagestyle{emisaeditorial}
```

Here, section titles are a bit larger than otherwise.

- 785 \def\sec@font{\sectionfont\Large}%
- 786 \def\para@font{\sectionfont}%
- 787 \setcounter{section}{0}%
- 788 }9

#### editorialcontent

This encapsulates editorial content entries.

- 789 \newenvironment{editorialcontent}[1]{%
- 790 \onecolumn
- 791 \refstepcounter{article}%
- 792 \edit@setup{#1}%
- 793 \l@editorialcontent
- 794 \raisebox $\{5.5mm\}[10mm][0pt]\{\sec@font\@title\}\$

Every editorial content is its own bibliographical unit.

- 795 \begin{refsection}%
- 796 \ignorespaces
- 797 }{%
- 798 \end{refsection}%
- 799 \onecolumn
- 800 \ignorespacesafterend}%

#### 19.9.6 Standard editorial content environments

Several types of standardized editorial contents.

# editorial \editorial name

This encapsulates editorials.

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

Every editorial is its own bibliographical unit.

- 807 \begin{refsection}%
- 808 \ignorespaces
- 809 } {%
- 810 \end{refsection}%
- 811 \onecolumn
- 812 \ignorespacesafterend}%

# cfp Call for papers.

#### \cfpname

- 813 \def\cfpname{Call for Papers}%
- 814 \newenvironment{cfp}[1][\cfpname]%
- 815 {\editorialcontent{#1}}%
- 816 {\endeditorialcontent}%

```
\imprint Imprint.
\imprintname
                817 \newcommandtwoopt{\imprint}[2][\@imprintname][\@imprintbody]{%
\imprintbody
                818
                     \onecolumn
                     \edit@setup[#1]{\@journalname}%
                819
                     \l@editorialcontent
                     \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\
                821
                     \ignorespaces
                822
                     #2
                823
                     \onecolumn\ignorespacesafterend}%
                824
                825 \def\imprintname#1{\@bsphack\def\@imprintname{#1}\@esphack}%
                   \long\def\imprintbody#1{\@bsphack\def\@imprintbody{#1}\@esphack}%
                   \imprintname{Imprint}%
                828 \imprintbody{%
                     The journal \emph{\@journalname} is the official journal of the
                829
                     Special Interest Group on Modelling Business Information Systems
                830
                831
                     within the German Informatics Society (GI-SIG MoBIS).
                832
                     The journal Enterprise Modelling and Information Systems
                833
                     Architectures is intended to provide a forum for those who prefer a
                834
                     design-oriented approach. As the official journal of the German
                835
                     Informatics Society (GI-SIG-MoBIS), it is dedicated to promote the
                836
                     study and application of languages and methods for enterprise
                837
                     modelling -- bridging the gap between theoretical foundations and
                838
                     real world requirements. The journal is not only aimed at
                839
                     researchers and students in Information Systems and Computer
                     Science, but also at information systems professionals in industry,
                841
                     commerce and public administration who are interested in innovative
                842
                     and inspiring concepts.
                843
                844
                     The journal's editorial board consists of scholars and practitioners
                845
                     who are renowned experts on various aspects of developing, analysing
                846
                     and deploying enterprise models. Besides Information Systems, they
                847
                     cover various fields of Computer Science.
                848
                849
                     \section*{Subscription Information}
                850
                851
                     The journal is distributed free of charge for members of the
                852
                     GI-SIG-MoBIS. Membership can be acquired through the German
                853
                     Informatics Society (http://www.gi-ev.de/verein/mitgliedschaft/).
                854
                     Single issues, priced at EUR\,25 each (plus shipment), can be ordered
                855
                     online (http://www.fg-mobis.gi-ev.de/).}
```

\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.

```
857 \newsavebox{\@editorial@box}%
   \newlength{\editorialboxmaxheight}%
   \setlength{\editorialboxmaxheight}{\textheight+10mm}%
   \newcommandtwoopt{\editorialboard}[2]%
    [\@editorialboardname][\@editorialboardbody]{%
861
862
     \clearpage
     \edit@setup[#1]{#1}%
863
     \l@editorialcontent
864
     \savebox{\@editorial@box}{%
865
       \vbox{\centering%
866
     \fboxsep=5mm
867
     \fcolorbox{boxframecolor}{boxbgcolor}{%
868
   \begin{minipage}[t]{110mm}
869
     \raggedright
870
     #2
871
872 \end{minipage}}\\*
873 }%
874
     \raisebox{15mm-\totalheight}[5mm][0mm]{\makebox[\textwidth][c]{%
875
       \ifdim\ht\@editorial@box>\editorialboxmaxheight
876
     \resizebox{!}{\editorialboxmaxheight}{\usebox{\@editorial@box}}%
877
   \else
878
     \usebox{\@editorial@box}%
879
880 \fi
     }}\\*
881
882
     \raisebox{-\textheight}[0mm][0mm]{\makebox[\textwidth][1]{%
     \parbox[t]{\textwidth}{\raggedleft\bfseries\@issn}%
883
884 }}%
     \onecolumn\ignorespacesafterend
885
886 }%
   \def\editorialboardname#1{%
887
888
     \@bsphack\def\@editorialboardname{#1}\@esphack}%
   \long\def\editorialboardbody#1{%
889
     \@bsphack\def\@editorialboardbody{#1}\@esphack}%
890
   \editorialboardname{Editorial Board}%
   \editorialboardbody{%
892
     \section*{\@title}\vskip1mm
893
     {\Large Editors in Chief\\[1mm]}
894
     Ulrich Frank, University of Duisburg-Essen\\
895
     Manfred Reichert, Ulm University\\[1mm]
896
     {\Large Associate Editors\\[1mm]}
898
     Wil van der Aalst, Eindhoven University of Technology\\
     Witold Abramowicz, Poznan University of Economics\\
899
     Colin Atkinson, University of Mannheim\\
900
     J\"org Becker, University of M\"unster\\
901
```

```
J\"org Desel, University of Hagen\\
 902
       Werner Esswein, Dresden University of Technology\\
 903
       Fernand Feltz, Centre de Recherche Public Gabriel Lippmann\\
 904
       Andreas Gadatsch, Bonn-Rhine-Sieg University of Applied Sciences\\
 905
       Martin Glinz, University of Zurich\\
 906
       Norbert Gronau, University of Potsdam\\
 907
       Wilhelm Hasselbring, University of Kiel\\
 908
       Brian Henderson-Sellers, University of Technology, Sydney\\
 909
       Stefan Jablonski, University of Bayreuth\\
 910
       Manfred Jeusfeld, Tilburg University\\
 911
       Reinhard Jung, University of St.\,Gallen\\
 912
       Dimitris Karagiannis, University of Vienna\\
 913
       John Krogstie, University of Trondheim\\
 914
       Thomas K\"uhne, Victoria University of Wellington\\
 915
 916
       Frank Leymann, University of Stuttgart\\
 917
       Stephen W. Liddle, Brigham Young University\\
       Peter Loos, Johannes Gutenberg-University of Mainz\\
 918
       Oscar Pastor L\'opez, Universidad Polit\`ecnica de Val\`encia\\
 919
 920
       Heinrich C. Mayr, University of Klagenfurt\\
       Jan Mendling, Vienna University of Economics and Business\\
 921
       Markus N\"uttgens, University of Hamburg\\
 922
       Andreas Oberweis, University of Karlsruhe\\
 923
       Erich Ortner, Darmstadt University of Technology\\
 924
       Erik Proper, Radboud University Nijmegen\\
 925
 926
       Michael Rebstock, University of Applied Sciences Darmstadt\\
       Stefanie Rinderle-Ma, University of Vienna\\
 927
       Michael Rosemann, Queensland University of Technology\\
 928
       Matti Rossi, Aalto University\\
 929
       Elmar J. Sinz, University of Bamberg\\
 930
       Friedrich Steimann, University of Hagen\\
 931
       Stefan Strecker, University of Hagen\\
 932
       Bernhard Thalheim, University of Kiel\\
 933
       Oliver Thomas, University of Osnabr\"uck\\
 934
       Juha-Pekka Tolvanen, University of Jyv\"askyl\"a\\
 935
      Klaus Turowski, University of Augsburg\\
 936
       Gottfried Vossen, University of M\"unster\\
 937
      Mathias Weske, University of Potsdam\\
 938
       Robert Winter, University of St.\,Gallen\\
 939
       Heinz Z\"ullighoven, University of Hamburg}%
 940
Guidelines for Authors.
 941 \newcommandtwoopt{\guidelines}[2]%
 942 [\@guidelinesname][\@guidelinesbody]{%
      \onecolumn
 943
      \edit@setup{#1}%
 944
 945
      \l@editorialcontent
```

\guidelines

\guidelinesname \guidelinesbody

- \raisebox{5.5mm}[10mm][0pt]{\sec@font\@title}\\
- \ignorespaces 947
- #2 948

```
\onecolumn\ignorespacesafterend}%
950
   \def\guidelinesname#1{%
     \@bsphack\def\@guidelinesname{#1}\@esphack}%
951
952 \lceil \log \rceil = 18\%
     \@bsphack\def\@guidelinesbody{#1}\@esphack}%
953
954 \quidelinesname{Guidelines for Authors}%
   \guidelinesbody{%
     The journal serves to publish results of innovative research on all
956
     facets of creating and analysing enterprise models and information
957
     systems architectures. For research papers, it is required to
958
     satisfy academic standards in terms of originality, level of
959
     abstraction and justification of results. Experience reports serve
960
     to describe and analyse success stories as well as practical
961
     obstacles and resulting research challenges. Topics covered by the
962
     journal include, but are not restricted to the following subjects:
963
     \begin{itemize}
964
       \item Languages and Methods for Enterprise Modelling
965
              Reusable Domain Models (Reference Models)
966
       \item Analysis and Design Patterns
967
       \item Modelling of Business Processes and Workflows
       \item Process-Oriented System Architectures
969
       \item Component-Oriented System Architectures
970
       \item Conceptual Modelling for Component-Oriented Design
971
       \item Ontologies for Enterprise Modelling
972
       \item Modelling for Enterprise Application Integration
973
       \item Modelling for Data Warehouses
974
975
       \item Modelling to support Knowledge Management
       \item Model-Driven Development
976
       \item Aspect-Oriented Design
977
978
       \item Agile Methods for Enterprise Modelling
     \end{itemize}
979
     Authors are asked for electronic submissions, which have to be sent
980
     to the editor in chief as e-mail attachment. In case of multiple
981
     authors, it is required to name one author who acts as contact
982
     person. The submission should include a cover page with the paper's
983
984
     title and the names, affiliations and e-mail addresses of all
     authors. The first page of the paper starts with the title and does
985
     not carry the authors' names. A manuscript must be either in MS
986
     Word or PDF format. It should not exceed 5.000 words -- this
987
     includes an abstract of around 150 words.
988
989
     Submitted papers will be reviewed within no more than two months.
990
     The review process is double blind. Authors who submit a manuscript
991
     guarantee that it has not been published elsewhere, nor is intended
992
     to be published elsewhere. Papers that were accepted for
993
     publication must be written according to the style defined for the
994
     journal. A comprehensive description as well as a corresponding
995
```

44

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

996

#### 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.

```
998 \def\maketitle{%
       \begingroup
       \let\footnoterule\relax
       \let\footnote\thanks
1001
       \let\thefootnote\relax
1002
       \def\@makefnmark{\textsuperscript{\@thefnmark}}%
1003
       \ifnum\col@number=\@ne
1004
           \@maketitle
1005
       \else
1006
           \twocolumn[\@maketitle]%
1007
1008
       \fi
       \global\@topnum\z@
1009
       \@thanks
1010
      \endgroup
1011
      \setcounter{footnote}{0}%
1012
1013 }%
```

\@maketitle This assembles and outputs the article title.

```
1014 \def\@maketitle{%
      \bgroup
1015
1016
      \normalfont
1017
       \pretolerance=9999
      \parskip\z@
1019
      \parindent\z@
        \if!\@title!
1020
        \else
1021
         {\raggedright
1022
             \titlefont\ignorespaces
1023
             \strut\@title\strut\par}%
1024
1025
        \vskip2mm\relax
1026
      \if!\@subtitle!
1027
1028
      \vskip5mm\relax
      \else
1029
         {\makebox[\textwidth][r]{%
1030
           \begin{minipage}{\textwidth-15mm}
1031
               \raggedright
1032
1033
               \subtitlefont\ignorespaces
               \strut\@subtitle\strut
1034
             \end{minipage}}%
1035
             \par}%
1036
        \vskip5mm\relax
1037
```

```
\fi
1038
      \if!\@authors!
1039
      \else
1040
      {\raggedright
1041
       \authorfont\ignorespaces
1042
       \strut\@authors
1043
       \ifx\@email\@empty
1044
           \ClassError{emisa}{There has to be one corresponding author!}{Please use \string\author*
1045
1046
       \else
          1047
1048
       \ifx\@acknowledgements\@empty
1049
       \else
1050
          \ignorespaces\makebox[0pt][1]{\footnote{\@acknowledgements}}%
1051
1052
       \fi%
1053
       \strut\par}%
      \vskip2mm\relax
1054
1055
      \fi
1056
      \if!\@addresses@list!
      \else
1057
        {\raggedright
1058
1059
         \footnotesize\ignorespaces
         \strut\@addresses@list\strut\par}%
1060
        \vskip8mm\relax
1061
1062
      \fi
      \if!\@authornote!
1063
      \else
1064
1065
        \let\thefootnote\relax
        \ignorespaces\makebox[0pt][1]{\footnote{Note: \@authornote}}%
1066
      \fi
1067
      \if!\@abstract!
1068
      \else
1069
       {\abstractfont\ignorespaces
1070
        \strut\textup{Abstract.\ }\@abstract\strut\par}%
        \vskip5mm\relax
1072
      \fi
1073
      \if!\@keywords!
1074
        \vskip3mm\relax
1075
1076
      \else
       {\raggedright
1077
        \ignorespaces
1078
        \strut Keywords.\ \@keywords\strut\par}
1079
        \vskip3mm\relax
      \fi
1081
      \if!\@articleinfo@name!
1082
        \if!\@articleinfo@rdate!
1083
          \if!\@articleinfo@adate!
1084
            \vskip\baselineskip\relax
1085
          \fi
1086
```

```
\fi
1087
      \else
1088
        {\raggedright
1089
         \small
1090
         \ignorespaces
1091
         \strut Communicated by\ \@articleinfo@name.%
1092
         \if!\@articleinfo@rdate!%
1093
1094
            \space Received\ \@articleinfo@rdate.%
1095
1096
         \fi%
         \if!\@articleinfo@adate!%
1097
         \else
1098
            \space Accepted\ %
1099
            \if!\@articleinfo@rounds!%
1100
            \else%
1101
1102
              \ifnum\@articleinfo@rounds=1
                  after \@articleinfo@rounds{} revision\space%
1103
              \else
1105
                  after \@articleinfo@rounds{} revisions\space%
              \fi%
1106
            \fi%
1107
            on \@articleinfo@adate.
1108
         \fi%
1109
         \strut\par}
1110
1111
         \vskip5mm\relax
1112
      \fi
1113
       \egroup
1114 }
```

#### 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.
- $\langle style \rangle$  Commands to set the output style. Since he June 1996 release of Lage X  $2_{\varepsilon}$  the *last* command in this argument may be a command such as \MakeUppercase or \fbox that takes an argument. The section heading will be supplied as the argument to this command. So setting this to, say,  $\langle bfseries MakeUppercase \rangle$  would produce bold, uppercase headings.

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

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

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

```
1115 \def\@sect#1#2#3#4#5#6[#7]#8{%
1116 \ifnum #2>\c@secnumdepth
1117 \let\@svsec\@empty
1118 \else
1119 \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.

```
1120 \protected@edef\@svsec{\@seccntformat{#1}}%
1121 \fi
1122 \@tempskipa #5\relax
1123 \ifdim \@tempskipa>\z@
```

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

```
\begingroup
1124
           #6{\noindent%
1125
              \@hangfrom{\hskip #3\relax\@svsec}%
1126
               \raggedright
1127
               \interlinepenalty\@M
1128
1129
               \strut#8\strut
               \@@par}%
1130
1131
         \endgroup
1132
        \csname #1mark\endcsname{#7}%
1133
         \addcontentsline{toc}{#1}{%
           \ifnum #2>\c@secnumdepth \else
1134
             \protect\numberline{\csname the#1\endcsname}%
1135
           \fi
1136
           #7}%
1137
      \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.

```
1139 \def\@svsechd{%
1140 #6{\hskip #3\relax
```

```
1141
           \@svsec #8}%
1142
           \csname #1mark\endcsname{#7}%
           \addcontentsline{toc}{#1}{%
1143
             \ifnum #2>\c@secnumdepth \else
1144
               \protect\numberline{\csname the#1\endcsname}%
1145
             \fi
1146
             #7}}%
1147
      \fi
1148
1149
      \@xsect{#5}}
```

\@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. 47.
1150 \def\@ssect#1#2#3#4#5{%
1151
        \@tempskipa #3\relax
        \ifdim \@tempskipa>\z@
1152
          \begingroup
1153
1154
             #4{\noindent%
1155
                \hskip #1\relax
                \noindent%
1156
                \parbox[t]{\linewidth}{%
1157
                  \raggedright\interlinepenalty\@M#5\strut}\@@par}%
1158
          \endgroup
1159
        \else
1160
           \def\@svsechd{#4{\hskip #1\relax #5}}%
1161
        \fi
1162
1163
        \@xsect{#3}}
This formats the counters (including any whitespace) of sectioning headers.
1164 \def\@seccntformat#1{%
        \csname the#1\endcsname%
1165
        \relax\ \ }%
```

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

#### Syntax:

\@seccntformat

See also the list on p. 47.

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

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

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

```
1167 \def\section{\@startsection{section}%
                           \{1\}\{\z@\}\%
                    1168
                           {-1\baselineskip plus -2mm minus -2mm}%
                    1169
                           {.5\baselineskip plus .25\baselineskip minus .125\baselineskip}%
                    1170
                           {\sec@font}}%
                    1171
     \subsection
                    1172 \def\subsection{\@startsection{subsection}%
                    1173
                           {2}{\z@}%
                           {-3mm plus -2mm minus -1.5mm}%
                    1174
                           {.25\baselineskip plus .125\baselineskip minus .125\baselineskip}%
                           {\sec@font}}%
                    1176
  \subsubsection
                    1177 \def\subsubsection{\@startsection{subsubsection}%
                    1178
                           {3}{\z@}%
                           {-3mm plus -2mm minus -1mm}%
                    1179
                    1180
                           {1sp}%
                           {\sec@font}}%
                    1181
      \paragraph
                    1182 \def\paragraph{\@startsection{paragraph}%
                           {4}{\z@}%
                    1183
                           \{-1.5mm plus -1mm minus -0.75mm\}\%
                    1184
                    1185
                           {1sp}%
                    1186
                           {\para@font}}%
   \subparagraph
                    1187 \def\subparagraph{\@startsection{subparagraph}%
                           {5}{\z@}%
                    1188
                           \{-1.5mm\}\%
                    1189
                    1190
                           {-1em}%
                           {\para@font}}%
                    1191
                   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, ...
                    1192 \def\tableofcontents{%
                    1193
                           \onecolumn
                           \pagestyle{emisaeditorial}%
                    1194
                           \footruleon
                    1195
                           \title{Table of Contents}%
                    1196
                           \null
                    1197
                          \vskip10mm
                    1198
```

\maketitle

1199

```
1201
                               \bgroup
                       ... then, after some more adjustments, the entries are read from \(\langle jobname \rangle \). toc using \(\text{@starttoc}\) toc\
                       and output.
                                 \parindent\z@
                        1202
                                 \parskip\z@
                        1203
                                 \@starttoc{toc}%
                        1204
                        1205
                               \egroup
                               \onecolumn
                        1206
                               }
                        1207
          \l@article
                       These two routines output content lines to the ToC.
\l@editorialcontent
                        1208 \newcommand*\l@article{%
                        1209
                               \if!\@subtitle!
                                 \addtocentry{\@tocauthor}{\thepage}{\@toctitle}%
                        1210
                        1211
                                 \addtocentry{\@tocauthor}{\thepage}{\@toctitle\ --\ \@tocsubtitle}%
                        1212
                        1213
                              \fi}%
                        1214 \newcommand*\l@editorialcontent{%
                              \addtocentry{\@toctitle}{\thepage}{}}%
                        1215
                       \addtocentry adds an entry using the typical EMISAJ layout to the contents listing of choice (default:
       \addtocentry
                       ToC).
                        1216 \newcommand*\addtocentry[4][toc]{%
                               \addtocontents{#1}{\string\emisa@tocentry{#2}{#3}{#4}}}%
                        1217
    \emisa@tocentry
                       \emisa@tocentry typesets that entry.
                        1218 \newcommand{\emisa@tocentry}[3]{%
                               \makebox[\textwidth][1]{%
                        1219
                                 \parbox[t]{72.5mm-\@pnumwidth}{\raggedright\textbf{#1}}%
                        1220
                                 \makebox[\@pnumwidth][r]{\textbf{#2}}%
                        1221
                                 \hfill
                        1222
                        1223
                                 \parbox[t]{85mm}{\raggedright#3}}%
                              \vspace{3mm}}%
                        1224
                       The output of ToC entries of level -1 (\part) and above is suppressed.
                        1225 \setcounter{tocdepth}{-2}
                       19.9.10 A few abbreviations
                       Macros for a couple of abbreviations used quite frequently.
                 \ie
                 \eg
                        1226 \newcommand*{\emisa@abbrv}[1]{#1\@\xspace}
                 \cf
                        1227 \newcommand*{\emisaabbrv}[2]{\gdef#1{\emisa@abbrv{#2}}}
               \etal
                        1228 \newcommand*{\emisa@initialism}[1]{\textsc{#1}\xspace}
       \emisa@abbrv
                        1229 \newcommand*{\emisainitialism}[2]{\gdef#1{\emisa@initialism{#2}}}
                        1230 \newcommand*{\ie}{\emisa@abbrv{i.\,e.}}
        \emisaabbrv
  \emisa@initialism
   \emisainitialism
                                                                      51
                \OMG
                \BPM
               \BPMN
```

1200

\UML

\vskip15mm

```
1231 \newcommand*{\eg}{\emisa@abbrv{e.\,g.}}
1232 \newcommand*{\cf}{\emisa@abbrv{cf.}}
1233 \newcommand*{\etal}{\emisa@abbrv{et~al.}}
1234 \newcommand*{\OMG}{\emisa@initialism{omg}}
1235 \newcommand*{\BPM}{\emisa@initialism{bpm}}
1236 \newcommand*{\BPMN}{\emisa@initialism{bpmn}}
1237 \newcommand*{\UML}{\emisa@initialism{uml}}
```

# 19.9.11 Other macros defined by EMISAJ

# 19.10 Bibliographies

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

\bibliography

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

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

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

```
1240 \def\@tempa#1\do\addbibresource#2\nil{%
1241
        \ifx\relax#2\relax
1242
        \def\@tempa##1\do\addbibresource##2\nil{\def\@preamblecmds{##1##2}}%
1243
1244
        \expandafter\@tempa\@preamblecmds\nil
1245
1246 }
    \verb|\expandafter@tempa@preamblecmds| do \verb|\addbibresource| nil|
    \AfterEndPreamble{%
       \DeclareRobustCommand{\bibliography}[1]{%
1249
           \addbibresource{#1}}%
1250
1251 }%
1252 \renewcommand{\fps@figure}{htbp}
1253 \renewcommand{\fps@table}{htbp}
1254 \tolerance 1414
1255 \hbadness 1414
```

```
1256 \emergencystretch 1.5em
1257 \hfuzz 0.3pt
1258 \widowpenalty=10000
1259 \displaywidowpenalty=10000
1260 \clubpenalty=5000
1261 \interfootnotelinepenalty=9999
1262 \brokenpenalty=2000
1263 \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.

```
1264 </class>
1265 <*biblatex>
```

#### 19.10.1 The EMISAJ bibliography style

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

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

```
1266 (*bbx)
```

We start by declaring the file name and date.

```
1267 \ProvidesFile{emisa.bbx}[2016/07/18 2.1.1 EMISA bibliography style]
```

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

```
1268 \RequireBibliographyStyle{authoryear}
```

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

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

```
1269 \newcommand*{\bibitemlabel}[1]{%
1270 \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.

```
1271 \defbibenvironment{bibliography}
1272 {\list{}%
1273     {\setlength{\labelwidth}{\z@}%
1274     \setlength{\leftmargin}{\z@}%
1275     \setlength{\itemindent}{-\leftmargin}%
1276     \setlength{\itemsep}{.5\baselineskip\@plus.2\baselineskip\@minus.2\baselineskip}%
1277     \setlength{\parsep}{\bibparsep}%
```

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

```
1278 }%
1279 \let\makelabel\bibitemlabel
```

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

```
1280 \tolerance 9999
1281 \emergencystretch 3em
1282 \hfuzz .5\p@
1283 \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.

```
1284 \clubpenalty 4000
1285 \@clubpenalty\clubpenalty
1286 \widowpenalty 4000
```

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

```
1287 \sfcode`\.\@m
```

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

An empty thebibliography environment will cause a warning.

```
1291 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1292 \endlist}
1293 {\item}
```

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

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

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

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

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

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

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

The following macros insert space.

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

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

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

\newunitpunct

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

1294 \renewcommand\*{\newunitpunct}{\space}

\finentrypunct

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

1295 \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.

```
1296 \renewcommand*{\bibsetup}{%
1297 \interlinepenalty=5000\relax
1298 \widowpenalty=10000\relax
1299 \clubpenalty=10000\relax
1300 \biburlsetup
1301 \flushbottom
1302 \frenchspacing
1303 \sloppy}
```

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

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

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

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

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

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

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

 $\$  This is some local setup in order to use  $\$  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.

```
1304 \renewcommand*{\biburlsetup}{%
      \Urlmuskip=0mu plus 2mu\relax
1305
      \mathchardef\UrlBreakPenalty=200\relax
1306
      \mathchardef\UrlBigBreakPenalty=100\relax
1307
1308
      \mathchardef\UrlEmergencyPenalty=9000\relax
      \appto\UrlSpecials{%
1309
       \do\0{\mathchar`\0\penalty\UrlEmergencyPenalty}%
1310
       \do\1{\mathchar`\1\penalty\UrlEmergencyPenalty}%
1311
       \do\2{\mathchar`\2\penalty\UrlEmergencyPenalty}%
1312
       \do\3{\mathchar`\3\penalty\UrlEmergencyPenalty}%
1313
       \do\4{\mathchar`\4\penalty\UrlEmergencyPenalty}%
1314
       \do\5{\mathchar`\5\penalty\UrlEmergencyPenalty}%
       \do\6{\mathchar`\6\penalty\UrlEmergencyPenalty}%
1316
       \do\7{\mathchar`\7\penalty\UrlEmergencyPenalty}%
1317
       1318
       \do\9{\mathchar`\9\penalty\UrlEmergencyPenalty}}%
1319
      \def\UrlBreaks{%
1320
1321
       1322
       \do\,\do\'\do\''\do\''\do\''\
      \def\UrlBigBreaks{\do\:\do\-}%
1323
URLs are typeset in sans-serif script.
      \def\UrlFont{\sffamily}%
1324
1325
```

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**{\( \key\)\} 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.

```
1326 \DeclareFieldFormat{citetitle}{#1}
1327 \DeclareFieldFormat[article]{citetitle}{#1\isdot}
1328 \DeclareFieldFormat[inbook]{citetitle}{#1\isdot}
1329 \DeclareFieldFormat[incollection]{citetitle}{#1\isdot}
1330 \DeclareFieldFormat[inproceedings]{citetitle}{#1\isdot}
1331 \DeclareFieldFormat[patent]{citetitle}{#1\isdot}
1332 \DeclareFieldFormat[thesis]{citetitle}{#1\isdot}
1333 \DeclareFieldFormat[unpublished]{citetitle}{#1\isdot}
```

The following field formats are used for output in bibliographies.

```
\DeclareFieldFormat{booktitle}{#1\isdot}
    \DeclareFieldFormat{journaltitle}{#1}
    \DeclareFieldFormat{issuetitle}{#1}
    \DeclareFieldFormat{maintitle}{#1}
    \DeclareFieldFormat{title}{#1}
    \DeclareFieldFormat[article]{title}{#1\isdot}
    \DeclareFieldFormat[inbook]{title}{#1\isdot}
    \DeclareFieldFormat[incollection]{title}{#1\isdot}
    \DeclareFieldFormat[inproceedings]{title}{#1\isdot}
    \DeclareFieldFormat[patent]{title}{#1\isdot}
1343
    \DeclareFieldFormat[thesis]{title}{#1\isdot}
1344
    \DeclareFieldFormat[unpublished]{title}{#1\isdot}
    \DeclareFieldFormat{url}{\url{#1}}
    \DeclareFieldFormat{urldate}{\bibstring{urlseen}\addcolon\space#1}
    \DeclareFieldAlias[misc]{note}{urldate}
1349 \DeclareFieldAlias[report]{note}{urldate}
    \DeclareFieldAlias[thesis]{note}{urldate}
1351 \DeclareFieldFormat{version}{\bibcpstring{version}~#1}
```

```
1352 \DeclareFieldFormat{volume}{\bibcpstring{volume}~#1}
1353 \DeclareFieldFormat{volumes}{#1~\bibcpstring{volumes}}
```

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

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

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

**\renewbibmacro** ${\langle name \rangle}$  [ $\langle arguments \rangle$ ] [ $\langle optiona1 \rangle$ ] { $\langle definition \rangle$ } is similar to \newbibmacro but redefines  $\langle name \rangle$ . If the macro is undefined, \renewbibmacro issues a warning message and falls back to \newbibmacro.

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

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

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

```
1354 \@ifpackagelater{biblatex}{2016/03/03}%
```

Now for the latest versions

```
1355 {%
1356
       \DeclareNameFormat{emisa:names}{%
           \nameparts{#1}%
1357
           \usebibmacro{name:family-giveninit}%
1358
              {\namepartfamily}%
1359
              {\namepartgiveni}%
1360
              {\namepartprefix}%
1361
1362
              {\namepartsuffix}%
           \usebibmacro{name:andothers}}%
1363
```

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

```
#1 = last name

#2 = last name (initials)

#3 = first name

#4 = first name (initials)

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

#6 = name prefix (initials)

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

#8 = name affix (initials)
```

```
1365 {%
1366
       \DeclareNameFormat{emisa:names}{%
       \usebibmacro{name:last-firstinit}{#1}{#4}{#5}{#7}%
1367
       \usebibmacro{name:andothers}}%
1368
1369 }%
This bibmacro formats the names of authors, editors or translators.
Again we check for the biblatex version. This could be neglected for this macro. However, it is clearer
and maybe better for future development.
1370 \@ifpackagelater{biblatex}{2016/03/03}%
Now for the latest versions
1371 {%
     \newbibmacro*{name:family-giveninit}[4]{%
         \usebibmacro{name:delim}{#2#3#1}%
         \usebibmacro{name:hook}{#2#3#1}%
1374
Formatting: name prefix ('von part'), ...
        \ifdefvoid{#3}{}{%
1375
1376
            \mkbibnameprefix{#3}%\isdot
            \ifprefchar% replaces \ifpunctmark{'}%
1377
1378
1379
            {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
... last name ...
1380
          \mkbibnamefamily{#1}\addhighpenspace%
... name affix ('junior part'), ...
1381
       ... and first name (initials).
       \ifdefvoid{#2}{}{\mkbibnamegiven{#2}\isdot}%
1382
1383
       }%
1384 }%
and now for the older versions
1385 {%
       \newbibmacro*{name:last-firstinit}[4]{%
1386
       \usebibmacro{name:delim}{#2#3#1}%
      \usebibmacro{name:hook}{#2#3#1}%
1388
Formatting: name prefix ('von part'), ...
      \ifblank{#3}{}{%
1389
        \mkbibnameprefix{#3}%\isdot
1390
1391
        \ifpunctmark{'}%
1392
           {\ifuseprefix{\addhighpenspace}{\addlowpenspace}}}%
1393
```

me:last-firstinit

bibmacro

... last name ...

\mkbibnamelast{#1}\addhighpenspace%

1394

```
... name affix ('junior part'), ...
                               ... and first name (initials).
                               \ifblank{#2}{}{\mkbibnamefirst{#2}\isdot}%
                         1397 }%
                         1398 }%
          in: bibmacro
                        This outputs the «in:» tag, as in bibliography entries for proceedings, collections, edited books and so on.
                         1399 \renewbibmacro*{in:}{%
                               \printtext{%
                         1400
                         1401
                                 \bibcpstring{in}%
                                 \intitlepunct}}
                         1402
                        Generic bibliography macros  
In this subsection the generic bibmacros outputting the typical name
                        fields in bibliographies are customised.
       author bibmacro
                         1403 \renewbibmacro*{author}{%
                               \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
                         1404
                                 {\printnames{author}%
                         1405
                                  \iffieldundef{authortype}
                         1406
                                    {}
                         1407
                                    {\setunit{\addspace}%
                         1408
                             \usebibmacro{authorstrg}}}
                         1409
                         1410
                                 {}}
       editor bibmacro
                         1411 \renewbibmacro*{editor}{%
                               \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                         1412
                                 {\printnames{editor}%
                         1413
                         1414
                                  \setunit{\addspace}%
                                  \usebibmacro{editorstrg}%
                         1415
                                  \clearname{editor}}
                         1416
                         1417
                                 {}}
editor+others bibmacro
                         1418 \renewbibmacro*{editor+others}{%
                               \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
                         1419
                                 {\printnames[emisa:names]{editor}%
                         1420
                                  \setunit{\addspace}%
                         1421
                                  \usebibmacro{editor+othersstrg}%
                         1422
                                 \clearname{editor}}
                         1423
                         1424
                                 {}}
```

```
translator bibmacro
```

```
1425 \renewbibmacro*{translator}{%
                                   \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                             1426
                                      {\printnames{translator}%
                             1427
                                       \setunit{\addspace}%
                             1428
                                      \usebibmacro{translatorstrg}%
                             1429
                                      \clearname{translator}}
                             1430
                             1431
                                     {}}
translator+others bibmacro
                             1432 \renewbibmacro*{translator+others}{%
                                   \ifthenelse{\ifusetranslator\AND\NOT\ifnameundef{translator}}
                             1433
                                      {\printnames{translator}%
                             1434
                                      \setunit{\addspace}%
                             1435
                             1436
                                      \usebibmacro{translator+othersstrg}%
                                      \clearname{translator}}
                             1437
                             1438
                                     {}}
editor+othersstrg bibmacro
                             1439 \renewbibmacro*{editor+othersstrg}{%
                                   \iffieldundef{editortype}
                             1440
                             1441
                                      {\ifthenelse{\value{editor}>1\OR\ifandothers{editor}}}
                                         {\def\abx@tempa{editors}}
                             1442
                             1443
                                         {\def\abx@tempa{editor}}}
                             1444
                                     {\ifthenelse{\value{editor}>1\OR\ifandothers{editor}}}
                                         {\edef\abx@tempa{\thefield{editortype}s}}
                             1445
                                         {\edef\abx@tempa{\thefield{editortype}}}}%
                             1446
                             1447
                                   \let\abx@tempb=\empty
                                   \ifnamesequal{editor}{translator}
                             1448
                                     {\appto\abx@tempa{tr}%
                             1449
                             1450
                                      \appto\abx@tempb{\clearname{translator}}}
                             1451
                                   \ifnamesequal{editor}{commentator}
                             1452
                             1453
                                     {\appto\abx@tempa{co}%
                                      \appto\abx@tempb{\clearname{commentator}}}
                             1454
                                     {\ifnamesequal{editor}{annotator}
                             1455
                                         {\appto\abx@tempa{an}%
                             1456
                                 \appto\abx@tempb{\clearname{annotator}}}
                             1457
                             1458
                                   \ifnamesequal{editor}{introduction}
                             1459
                                     {\appto\abx@tempa{in}%
                             1460
                                      \appto\abx@tempb{\clearname{introduction}}}
                             1461
                                     {\ifnamesequal{editor}{foreword}
                             1462
                                         {\appto\abx@tempa{fo}%
                             1463
                                 \appto\abx@tempb{\clearname{foreword}}}
                             1464
                                         {\ifnamesequal{editor}{afterword}
                             1465
                                            {\appto\abx@tempa{af}%
                             1466
                             1467
                                             \appto\abx@tempb{\clearname{afterword}}}
```

```
1468
                                            {}}}%
                             1469
                                   \ifbibxstring{\abx@tempa}
                                     {\bibstring[\mkbibparens]{\abx@tempa}%
                             1470
                                      \abx@tempb}
                             1471
                                     {\usebibmacro{editorstrg}}}%
                             1472
emisa:url+urldate bibmacro
                             1473 \newbibmacro*{emisa:url+urldate}{%
                                   \iffieldundef{url}
                             1474
                                     {\printfield{howpublished}}
                             1475
                             1476
                                     {\printfield{url}}
                                   \setunit*{\addperiod\space}\newblock
                             1477
                                   \iffieldundef{urlyear}
                             1479
                                     {\printfield{note}}
                                     {\printtext[urldate]{\printurldate}}}
                             1480
isa:url+type+version+urldate
                 bibmacro
                             1481 \newbibmacro*{emisa:url+type+version+urldate}{%
                                   \iffieldundef{url}%
                             1482
                                     {\printfield{url}}
                             1483
                                     {\printfield{howpublished}}%
                             1484
                                   \setunit*{\addcomma\space}\newblock
                             1485
                                   \printfield{type}%
                             1486
                                   \setunit*{\addcomma\space}\newblock
                             1487
                                   \printfield{version}%
                             1488
                                   \setunit*{\addcomma\space}\newblock
                             1490
                                   \iffieldundef{urlyear}
                                     {\printfield{note}}
                             1491
                                     {\printtext[urldate]{\printurldate}}}
                             1492
```

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

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

# finentry bibmacro

```
article bibdriver

1494 \DeclareBibliographyDriver{article}{%

1495 \usebibmacro{bibindex}%

1496 \usebibmacro{begentry}%

1497 \usebibmacro{author/translator+others}%
```

1493 \renewbibmacro\*{finentry}{}%

1498 \setunit{\labelnamepunct}\newblock
1499 \usebibmacro{title}%

1500 \newunit

1501 \printlist{language}%

- 1502 \newunit\newblock
- 1503 \usebibmacro{bytranslator+others}%
- 1504 \newunit\newblock
- 1505 \printfield{version}%
- 1506 \setunit{\addperiod\space}%
- 1507 \usebibmacro{in:}%
- 1508 \usebibmacro{journal+issuetitle}%
- 1509 \newunit\newblock
- 1510 \usebibmacro{editor+others}%
- 1511 \newunit\newblock
- 1512 \usebibmacro{note+pages}%
- 1513 \newunit\newblock
- 1514 \iftoggle{bbx:isbn}
- 1515 {\printfield{issn}}
- 1516 {}%
- 1517 \newunit\newblock
- 1518 \usebibmacro{doi+eprint+url}%
- 1519 \newunit\newblock
- 1520 \usebibmacro{addendum+pubstate}%
- 1521 \newunit\newblock
- 1522 \usebibmacro{pageref}%
- 1523 \usebibmacro{finentry}}

#### book bibdriver

- 1524 \DeclareBibliographyDriver{book}{%
- 1525 \usebibmacro{bibindex}%
- 1526 \usebibmacro{begentry}%
- 1527 \usebibmacro{author/editor+others/translator+others}%
- 1528 \setunit{\labelnamepunct}\newblock
- 1529 \usebibmacro{maintitle+title}%
- 1530 \newunit
- 1531 \printlist{language}%
- 1532 \newunit\newblock
- 1533 \usebibmacro{editor+others}%
- 1534 \setunit{\addcomma\space}%
- 1535 \newblock
- 1536 \printfield{edition}%
- 1537 \setunit{\addperiod\space}%
- 1538 \newblock
- 1539 \usebibmacro{series+number}%
- 1540 \newunit
- 1541 \newblock
- 1542 \iffieldundef{maintitle}
- 1543 {\printfield{volume}%
- 1544 \printfield{part}}
- 1545 {}%
- 1546 \newunit
- 1547 \printfield{volumes}%
- 1548 \setunit{\addperiod\space}%

- 1549 \newblock
- 1550 \printfield{note}%
- 1551 \setunit{\addperiod\space}%
- 1552 \newblock
- 1553 \usebibmacro{publisher+location+date}%
- 1554 \newunit\newblock
- 1555 \usebibmacro{chapter+pages}%
- 1556 \newunit
- 1557 \printfield{pagetotal}%
- 1558 \newunit\newblock
- 1559 \iftoggle{bbx:isbn}
- 1560 {\printfield{isbn}}
- 1561 {}%
- 1562 \newunit\newblock
- 1563 \usebibmacro{doi+eprint+url}%
- 1564 \newunit\newblock
- 1565 \usebibmacro{addendum+pubstate}%
- 1566 \newunit\newblock
- 1567 \usebibmacro{pageref}%
- 1568 \usebibmacro{finentry}}

#### booklet bibdriver

- 1569 \DeclareBibliographyDriver{booklet}{%
- 1570 \usebibmacro{bibindex}%
- 1571 \usebibmacro{begentry}%
- 1572 \usebibmacro{author/editor+others/translator+others}%
- 1573 \setunit{\labelnamepunct}\newblock
- 1574 \usebibmacro{title}%
- 1575 \newunit
- 1576 \printlist{language}%
- 1577 \newunit\newblock
- 1578 \usebibmacro{editor+others}%
- 1579 \newunit\newblock
- 1580 \printfield{howpublished}%
- 1581 \newunit\newblock
- 1582 \printfield{type}%
- 1583 \newunit\newblock
- 1584 \printfield{note}%
- 1585 \newunit\newblock
- 1586 \usebibmacro{location+date}%
- 1587 \newunit\newblock
- 1588 \usebibmacro{chapter+pages}%
- 1589 \newunit
- 1590 \printfield{pagetotal}%
- 1591 \newunit\newblock
- 1592 \usebibmacro{doi+eprint+url}%
- 1593 \newunit\newblock
- 1594 \usebibmacro{addendum+pubstate}%
- 1595 \newunit\newblock

```
1596 \usebibmacro{pageref}%
1597 \usebibmacro{finentry}}
```

#### collection bibdriver

\DeclareBibliographyDriver{collection}{% 1598 \usebibmacro{bibindex}% 1599 1600 \usebibmacro{begentry}% \usebibmacro{editor+others}% 1601 \setunit{\labelnamepunct}\newblock 1602 1603 \usebibmacro{maintitle+title}% 1604 \newunit \printlist{language}% 1605 \newunit\newblock 1606 \usebibmacro{editor+others}% 1607 \setunit{\addcomma\space}% 1608 1609 \newblock \printfield{edition}% 1610 \setunit{\addperiod\space}% 1611 1612 \newblock \usebibmacro{series+number}% 1613 1614 \newunit \newblock 1615 \iffieldundef{maintitle} 1616 {\printfield{volume}% 1617 \printfield{part}} 1618 {}% 1619 \newunit 1620 1621 \printfield{volumes}% \setunit{\addperiod\space}% 1622 \newblock 1623 \printfield{note}% 1624 \setunit{\addperiod\space}% 1625 \newblock 1626 \usebibmacro{publisher+location+date}% 1627 \newunit\newblock 1628 1629 \usebibmacro{chapter+pages}% 1630 \newunit \printfield{pagetotal}% 1631 \newunit\newblock 1632 \iftoggle{bbx:isbn} 1633 {\printfield{isbn}} 1634 1635 {}% \newunit\newblock 1636 \usebibmacro{doi+eprint+url}% 1637 1638 \newunit\newblock \usebibmacro{addendum+pubstate}% 1639 \newunit\newblock 1640 \usebibmacro{pageref}% 1641 \usebibmacro{finentry}} 1642

#### inbook bibdriver

```
1643 \DeclareBibliographyDriver{inbook}{%
      \usebibmacro{bibindex}%
1644
      \usebibmacro{begentry}%
1645
      \usebibmacro{author/translator+others}%
1646
1647
      \setunit{\labelnamepunct}\newblock
      \usebibmacro{title}%
1648
      \newunit
1649
      \printlist{language}%
1650
      \newunit\newblock
1651
1652
      \usebibmacro{in:}%
      \usebibmacro{bybookauthor}%
1653
      \newunit\newblock
1654
1655
      \usebibmacro{maintitle+booktitle}%
      \newunit\newblock
1656
      \usebibmacro{editor+others}%
1657
1658
      \setunit{\addcomma\space}%
      \newblock
1659
      \printfield{edition}%
1660
1661
      \newunit
      \iffieldundef{maintitle}
1662
1663
        {\printfield{volume}%
         \printfield{part}}
1664
        {}%
1665
1666
      \newunit
      \printfield{volumes}%
1667
      \newunit\newblock
1668
      \usebibmacro{series+number}%
1669
1670
      \newunit\newblock
      \printfield{note}%
1671
1672
      \newunit\newblock
      \usebibmacro{publisher+location+date}%
1673
      \newunit\newblock
1674
1675
      \usebibmacro{chapter+pages}%
      \newunit\newblock
1676
      \iftoggle{bbx:isbn}
1677
1678
        {\printfield{isbn}}
1679
      \newunit\newblock
1680
1681
      \usebibmacro{doi+eprint+url}%
      \newunit\newblock
1682
      \usebibmacro{addendum+pubstate}%
1683
      \newunit\newblock
1684
      \usebibmacro{pageref}%
1685
1686
      \usebibmacro{finentry}}
```

incollection bibdriver

1687 \DeclareBibliographyDriver{incollection}{%

- 1688 \usebibmacro{bibindex}%
- 1689 \usebibmacro{begentry}%
- 1690 \usebibmacro{author/translator+others}%
- 1691 \setunit{\labelnamepunct}\newblock
- 1692 \usebibmacro{title}%
- 1693 \setunit{\addcomma\space}%
- 1694 \printlist{language}%

### Period after title, if any

- 1695 \setunit{\addperiod\space}%
- 1696 \usebibmacro{in:}%
- 1697 \usebibmacro{editor+others}%
- 1698 \setunit{\addspace}%
- 1699 \newblock
- 1700 \usebibmacro{byauthor}%
- 1701 \newblock
- 1702 \usebibmacro{maintitle+booktitle}%

#### Colon after maintitle, if any

- 1703 \newblock
- 1704 \printfield{edition}%
- 1705 \setunit{\addperiod\space}%
- 1706 \newblock
- 1707 \usebibmacro{series+number}%
- 1708 \newunit
- 1709 \newblock
- 1710 \iffieldundef{maintitle}
- 1711 {\printfield{volume}%
- 1712 \printfield{part}}
- 1713 {}%
- 1714 \newunit
- 1715 \printfield{volumes}%
- 1716 \setunit{\addperiod\space}%
- 1717 \newblock
- 1718 \printfield{note}%
- 1719 \setunit{\addperiod\space}%
- 1720 \newblock
- 1721 \usebibmacro{publisher+location+date}%
- 1722 \setunit\*{\addcomma\space}%
- 1723 \newblock
- 1724 \usebibmacro{chapter+pages}%
- 1725 \newunit\newblock
- 1726 \iftoggle{bbx:isbn}
- 1727 {\printfield{isbn}}
- 1728 {}%
- 1729 \newunit\newblock
- 1730 \usebibmacro{doi+eprint+url}%
- 1731 \newunit\newblock
- 1732 \usebibmacro{addendum+pubstate}%

- 1733 \newunit\newblock
- 1734 \usebibmacro{pageref}%
- 1735 \usebibmacro{finentry}}

#### inproceedings bibdriver

- 1736 \DeclareBibliographyDriver{inproceedings}{%
- 1737 \usebibmacro{bibindex}%
- 1738 \usebibmacro{begentry}%
- 1739 \usebibmacro{author/translator+others}%
- 1740 \setunit{\labelnamepunct}%
- 1741 \newblock
- 1742 \usebibmacro{title}%
- 1743 \setunit{\addcomma\space}%
- 1744 \printlist{language}%
- 1745 \newblock
- 1746 \usebibmacro{byauthor}%

#### Period after title, if any

- 1747 \setunit{\addperiod\space}%
- 1748 \usebibmacro{in:}%
- 1749 \usebibmacro{editor+others}%
- 1750 \setunit{\addspace}%
- 1751 \newblock
- 1752 \usebibmacro{byauthor}%
- 1753 \newblock
- 1754 \usebibmacro{maintitle+booktitle}%

## Colon after maintitle, if any

- 1755 \newblock
- 1756 \usebibmacro{event+venue+date}%
- 1757 \setunit{\addperiod\space}%
- 1758 \newblock
- 1759 \usebibmacro{series+number}%
- 1760 \newunit
- 1761 \newblock
- 1762 \iffieldundef{maintitle}
- 1763 {\printfield{volume}%
- 1764 \printfield{part}}
- 1765 {}%
- 1766 \newunit
- 1767 \printfield{volumes}%
- 1768 \setunit{\addperiod\space}%
- 1769 \newblock
- ${\tt 1770} \qquad {\tt \printfield\{note\}\%}$
- 1771 \setunit{\addperiod\space}%
- 1772 \newblock
- 1773 \printlist{organization}%
- 1774 \setunit{\addperiod\space}%
- 1775 \newblock

- 1776 \usebibmacro{publisher+location+date}%
- 1777 \setunit{\addcomma\space}%
- 1778 \newblock
- 1779 \usebibmacro{chapter+pages}%
- 1780 \newunit\newblock
- 1781 \iftoggle{bbx:isbn}
- 1782 {\printfield{isbn}}
- 1783 {}%
- 1784 \newunit\newblock
- 1785 \usebibmacro{doi+eprint+url}%
- 1786 \newunit\newblock
- 1787 \usebibmacro{addendum+pubstate}%
- 1788 \newunit\newblock
- 1789 \usebibmacro{pageref}%
- 1790 \usebibmacro{finentry}}

#### manual bibdriver

- 1791 \DeclareBibliographyDriver{manual}{%
- 1792 \usebibmacro{bibindex}%
- 1793 \usebibmacro{begentry}%
- 1794 \usebibmacro{author/editor}%
- 1795 \setunit{\labelnamepunct}\newblock
- 1796 \usebibmacro{title}%
- 1797 \newunit
- 1798 \printlist{language}%
- 1799 \newunit\newblock
- 1800 \usebibmacro{byeditor}%
- 1801 \setunit{\addcomma\space}%
- 1802 \newblock
- 1803 \printfield{edition}%
- 1804 \newunit\newblock
- 1805 \usebibmacro{series+number}%
- 1806 \newunit\newblock
- 1807 \printfield{type}%
- 1808 \newunit
- 1809 \printfield{version}%
- 1810 \newunit
- 1811 \printfield{note}%
- 1812 \newunit\newblock
- 1813 \printlist{organization}%
- 1814 \newunit
- 1815 \usebibmacro{publisher+location+date}%
- 1816 \newunit\newblock
- 1817 \usebibmacro{chapter+pages}%
- 1818 \newunit
- 1819 \printfield{pagetotal}%
- 1820 \newunit\newblock
- 1821 \iftoggle{bbx:isbn}
- 1822 {\printfield{isbn}}

```
1823
                           {}%
                        \newunit\newblock
                  1824
                         \usebibmacro{doi+eprint+url}%
                  1825
                         \newunit\newblock
                  1826
                        \usebibmacro{addendum+pubstate}%
                  1827
                         \newunit\newblock
                  1828
                  1829
                         \usebibmacro{pageref}%
                  1830
                         \usebibmacro{finentry}}
  misc bibdriver
                  1831 \DeclareBibliographyDriver{misc}{%
                         \usebibmacro{bibindex}%
                  1832
                        \usebibmacro{begentry}%
                  1833
                         \usebibmacro{author/editor+others/translator+others}%
                  1834
                         \setunit{\labelnamepunct}\newblock
                  1835
                  1836
                        \usebibmacro{title}%
                         \newunit
                  1837
                         \printlist{language}%
                  1838
                 Period after title, if any
                        \setunit{\addperiod\space}%
                  1839
                         \usebibmacro{emisa:url+urldate}%
                  1840
                  1841
                         \usebibmacro{finentry}}
online bibdriver
                  1842 \DeclareBibliographyDriver{online}{%
                  1843
                         \usebibmacro{bibindex}%
                  1844
                         \usebibmacro{begentry}%
                         \usebibmacro{author/editor+others/translator+others}%
                  1845
                         \setunit{\labelnamepunct}\newblock
                  1846
                         \usebibmacro{title}%
                  1847
                        \newunit
                  1848
                         \printlist{language}%
                  1849
                  1850
                         \newunit\newblock
                         \usebibmacro{editor+others}%
                  1851
                  1852
                        \newunit\newblock
                         \printfield{version}%
                  1853
                        \newunit
                  1854
                         \printfield{note}%
                  1855
                         \newunit\newblock
                  1856
                         \printlist{organization}%
                  1857
                         \newunit\newblock
                  1858
                         \usebibmacro{date}%
                  1859
                         \newunit\newblock
                  1860
                  1861
                        \iftoggle{bbx:eprint}
                           {\usebibmacro{eprint}}
                  1862
                           {}%
                  1863
                        \newunit\newblock
                  1864
                         \usebibmacro{url+urldate}%
                  1865
```

```
1866
                             \newunit\newblock
                             \usebibmacro{addendum+pubstate}%
                      1867
                             \newunit\newblock
                      1868
                             \usebibmacro{pageref}%
                      1869
                             \usebibmacro{finentry}}
                      1870
    patent bibdriver
                      1871 \DeclareBibliographyDriver{patent}{%
                             \usebibmacro{bibindex}%
                      1872
                             \usebibmacro{begentry}%
                      1874
                             \usebibmacro{author}%
                             \setunit{\labelnamepunct}\newblock
                      1875
                             \usebibmacro{title}%
                      1876
                             \newunit
                      1877
                             \printlist{language}%
                      1878
                      1879
                             \newunit\newblock
                             \printfield{type}%
                      1880
                             \setunit*{\addspace}%
                      1881
                      1882
                             \printfield{number}%
                             \iflistundef{location}
                      1883
                      1884
                               {\setunit*{\addspace}%
                      1885
                                \printtext[parens]{%
                      1886
                                  \printlist[][-\value{listtotal}]{location}}}%
                      1887
                      1888
                             \newunit\newblock
                             \usebibmacro{byholder}%
                      1889
                             \newunit\newblock
                      1890
                      1891
                             \printfield{note}%
                             \newunit\newblock
                      1892
                             \usebibmacro{date}%
                      1893
                             \newunit\newblock
                      1894
                             \iftoggle{bbx:url}
                      1895
                               {\usebibmacro{url+urldate}}
                      1896
                               {}%
                      1897
                             \newunit\newblock
                      1898
                      1899
                             \usebibmacro{addendum+pubstate}%
                             \newunit\newblock
                             \usebibmacro{pageref}%
                      1901
                      1902
                             \usebibmacro{finentry}}
periodical bibdriver
                      1903 \DeclareBibliographyDriver{periodical}{%
                             \usebibmacro{bibindex}%
                      1904
                      1905
                             \usebibmacro{begentry}%
                             \usebibmacro{editor}%
                      1906
                             \setunit{\labelnamepunct}\newblock
                      1907
                             \usebibmacro{title+issuetitle}%
                             \newunit
                      1909
```

```
\printlist{language}%
1910
      \newunit\newblock
1911
      \usebibmacro{byeditor}%
1912
      \newunit\newblock
1913
      \printfield{note}%
1914
      \newunit\newblock
1915
1916
      \iftoggle{bbx:isbn}
1917
        {\printfield{issn}}
1918
      \newunit\newblock
1919
      \usebibmacro{doi+eprint+url}%
1920
      \newunit\newblock
1921
1922
      \usebibmacro{addendum+pubstate}%
      \newunit\newblock
1923
1924
      \usebibmacro{pageref}%
1925
      \usebibmacro{finentry}}
1926 \DeclareBibliographyDriver{proceedings}{%
      \usebibmacro{bibindex}%
1927
      \usebibmacro{begentry}%
1928
      \usebibmacro{editor+others}%
1929
      \setunit{\labelnamepunct}\newblock
1930
      \usebibmacro{maintitle+title}%
1931
1932
      \newunit
      \printlist{language}%
1933
1934
      \newunit\newblock
1935
      \usebibmacro{event+venue+date}%
      \newunit\newblock
1936
      \usebibmacro{editor+others}%
1937
      \setunit{\addperiod\space}%
1938
      \newblock
1939
      \usebibmacro{series+number}%
1940
      \newunit
1941
      \newblock
1942
1943
      \iffieldundef{maintitle}
        {\printfield{volume}%
         \printfield{part}}
1945
        {}%
1946
      \newunit
1947
      \printfield{volumes}%
1948
      \setunit{\addperiod\space}%
1949
      \newblock
1950
      \printfield{note}%
1951
```

\setunit{\addperiod\space}%

\printlist{organization}%

\setunit{\addperiod\space}%

proceedings bibdriver

1952

1953

1954

1955

1956

 $\newblock$ 

\newblock

```
\usebibmacro{publisher+location+date}%
1957
       \newblock
1958
       \usebibmacro{chapter+pages}%
1959
       \newunit
1960
       \printfield{pagetotal}%
1961
       \newunit\newblock
1962
1963
       \iftoggle{bbx:isbn}
1964
         {\printfield{isbn}}
1965
         {}%
       \newunit\newblock
1966
       \usebibmacro{doi+eprint+url}%
1967
       \newunit\newblock
1968
       \usebibmacro{addendum+pubstate}%
1969
       \newunit\newblock
1970
1971
       \usebibmacro{pageref}%
       \usebibmacro{finentry}}
Technical reports
 author
 title
 year
 type
 number
 institution
 address
 url
 note
1973 \DeclareBibliographyDriver{report}{%
       \usebibmacro{bibindex}%
1974
       \usebibmacro{begentry}%
1975
```

#### report bibdriver

```
\usebibmacro{author}%
1976
      \setunit{\labelnamepunct}\newblock
1977
1978
      \usebibmacro{title}%
      \setunit{\addperiod\space}%
1979
      \printfield{type}%
1980
1981
      \newunit
      \printfield{number}%
1982
      \setunit{\addperiod\space}%
1983
      \printlist{institution}%
1984
      \setunit*{\addperiod\space}\newblock
1985
      \printlist{location}%
1986
1987
      \setunit*{\addperiod\space}\newblock
      \printfield{url}%
1988
      \setunit*{\addperiod\space}\newblock
1989
      \printfield{note}%
1990
      \newunit\newblock
1991
```

```
1992 \usebibmacro{finentry}}%
```

#### 1993 \DeclareBibliographyAlias{techreport}{report}%

#### thesis bibdriver

- 1994 \DeclareBibliographyDriver{thesis}{%
- 1995 \usebibmacro{bibindex}%
- 1996 \usebibmacro{begentry}%
- 1997 \usebibmacro{author}%
- 1998 \setunit{\labelnamepunct}\newblock
- 1999 \usebibmacro{title}%
- 2000 \newunit
- 2001 \printlist{language}%

#### Period after title, if any

- 2002 \setunit{\addperiod\space}%
- 2003 \printfield{type}%
- 2004 \setunit\*{\addcomma\space}%
- 2005 \usebibmacro{institution+location+date}%
- 2006 \setunit{\addperiod\space}%
- 2007 \usebibmacro{chapter+pages}%
- 2008 \newunit
- 2009 \printfield{pagetotal}%
- 2010 \newunit\newblock
- 2011 \printfield{url}%
- 2012 \setunit\*{\addperiod\space}\newblock
- 2013 \printfield{note}%
- 2014 \newunit\newblock
- 2015 \usebibmacro{addendum+pubstate}%
- 2016 \newunit\newblock
- 2017 \usebibmacro{pageref}%
- 2018 \usebibmacro{finentry}}

#### unpublished bibdriver

- 2019 \DeclareBibliographyDriver{unpublished}{%
- 2020 \usebibmacro{bibindex}%
- 2021 \usebibmacro{begentry}%
- 2022 \usebibmacro{author}%
- 2023 \setunit{\labelnamepunct}\newblock
- 2024 \usebibmacro{title}%
- 2025 \newunit
- 2026 \printlist{language}%
- 2027 \newunit\newblock
- 2028 \printfield{howpublished}%
- 2029 \newunit\newblock
- 2030 \printfield{note}%
- 2031 \newunit\newblock
- 2032 \usebibmacro{date}%
- 2033 \newunit\newblock
- 2034 \iftoggle{bbx:url}

```
{\usebibmacro{url+urldate}}
                             2035
                             2036
                                      {}%
                                    \newunit\newblock
                             2037
                                    \usebibmacro{addendum+pubstate}%
                             2038
                                    \newunit\newblock
                             2039
                                    \usebibmacro{pageref}%
                             2040
                                    \usebibmacro{finentry}}
                             2041
intitle+booktitle
                 bibmacro
                             2042 \renewbibmacro*{maintitle+booktitle}{%
                             2043
                                    \iffieldundef{maintitle}
                             2044
                                     {\usebibmacro{maintitle}%
                             2045
                                      \addspace
                             2046
                                      \newblock
                             2047
                                      \iffieldundef{volume}
                             2048
                             2049
                                       {\printfield{volume}%
                             2050
                                        \printfield{part}%
                             2051
                             2052
                                        \addspace
                                     }}%
                             2053
                                    \usebibmacro{booktitle}%
                             2054
                             2055
                                    \newunit}
ournal+issuetitle bibmacro
                             2056 \renewbibmacro*{journal+issuetitle}{%
                             2057
                                    \usebibmacro{journal}%
                                    \setunit*{\addspace}%
                             2058
                                    \iffieldundef{series}
                             2059
                             2060
                                      {}
                                      {\newunit
                             2061
                                       \printfield{series}%
                             2062
                             2063
                                       \setunit{\addspace}}%
                             2064
                                    \printfield{volume}%
                                    \printfield[parens]{number}%
                             2065
                             2066
                                    \setunit{\addcomma\space}%
                                    \printfield{eid}%
                             2067
                                    \setunit{\addspace}%
                             2068
                                    \usebibmacro{issue+date}%
                             2069
                                    \setunit{\addcolon\space}%
                             2070
                                    \usebibmacro{issue}%
                             2071
                                    \newunit}
isa:doi+eprint+url
                 bibmacro
                             2073 \newbibmacro*{emisa:doi+eprint+url}{%
                                    \iftoggle{bbx:doi}
                                      {\printfield{doi}}
                             2075
                             2076
                                      {}%
```

\newunit\newblock

2077

```
2078 \iftoggle{bbx:eprint}
2079 {\usebibmacro{eprint}}
2080 {}%
2081 \newunit\newblock
2082 \iftoggle{bbx:url}
2083 {\usebibmacro{emisa:url+urldate}}
2084 {}}
```

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

```
2085 \renewbibmacro*{author}{%
      \ifthenelse{\ifuseauthor\AND\NOT\ifnameundef{author}}
2086
       {\tt \{\fullhash\}{\tt bbx@lasthash}\AND}
2087
                     \NOT\iffirstonpage\AND
2088
                     \(\NOT\boolean{bbx@inset}\OR
2089
                     \iffieldequalstr{entrysetcount}{1}\)}
2090
2091
         {\bibnamedash}
         {\usebibmacro{bbx:savehash}%
2092
          \printnames[emisa:names]{author}%
2093
          \iffieldundef{authortype}
2094
           {\setunit{\addspace}}
2095
           {\setunit{\addcomma\space}%
2096
            \usebibmacro{authorstrg}%
2097
            \setunit{\addspace}}}%
2098
       }{%
2099
        \global\undef\bbx@lasthash
2100
        \usebibmacro{labeltitle}%
        \setunit*{\addspace}}%
2102
      \usebibmacro{date+extrayear}}
2103
```

#### bbx:editor bibmacro

```
\renewbibmacro*{bbx:editor}[1]{%
2104
      \ifthenelse{\ifuseeditor\AND\NOT\ifnameundef{editor}}
2105
        {\ifthenelse{\iffieldequals{fullhash}{\bbx@lasthash}\AND
2106
                      \NOT\iffirstonpage\AND
2107
                      \(\NOT\boolean{bbx@inset}\OR
2108
                      \iffieldequalstr{entrysetcount}{1}\)}
2110
          {\bibnamedash}
           {\printnames[emisa:names]{editor}%
2111
2112
           \setunit{\addcomma\space}%
           \usebibmacro{bbx:savehash}}%
2113
2114
         \usebibmacro{#1}%
         \clearname{editor}%
2115
```

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

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

# Localization

```
2150 \DefineBibliographyStrings{english}{%
2151 urlseen = {Last Access},
2152 techreport = {},%
2153 }%
```

```
2154 \DefineBibliographyStrings{german}{%
2155 urlseen = {Letzter Zugriff},%
2156 techreport = {},%
2157 }%
2158 \DefineBibliographyStrings{ngerman}{%
2159 urlseen = {Letzter Zugriff},%
2160 techreport = {},%
2161 }%
```

#### Unlocalization

```
2162 % year/month/day
2163 \protected\def\mkbibdateiso#1#2#3{%
      \iffieldundef{#1}{}{%
2164
        \theta = 13\%
2165
2166
        \left\{ f_{+2}^{2} \right\} = 1
      \iffieldundef{#2}{}{%
2167
        \mkdatezeros{\thefield{#2}}%
2168
        \iffieldundef{#3}{}{-}}%
2169
      \mkdatezeros{\thefield{#3}}%
2170
2171 }%
2172 \DefineBibliographyExtras{english}{\let\mkbibdateshort\mkbibdateiso}%
2173 \DefineBibliographyExtras{german}{\let\mkbibdateshort\mkbibdateiso}%
2174 \DefineBibliographyExtras{ngerman}{\let\mkbibdateshort\mkbibdateiso}%
```

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

2175 (/bbx)

#### 19.10.2 The EMISAJ citation style

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

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

```
2176 \( \pmox \cdot \cdot
```

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

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

```
2180 \DeclareRangeChars*{f}

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

2181 \langle/cbx\rangle
2182 \langle/biblatex\rangle
2183 \langle*class\rangle

Here, the LATEX class EMISAJ ends.

2184 \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.

```
2185 (*template)
2186 (*article)
2187 \documentclass[american]{emisa}
2188 %% You can use the following additional class options:
2189 %% referee, review -- Use for submission to peer-review process.
2190 %% draft -- mark overfull lines
2191 %% british, UKenglish -- British English hyphenation and quotation marks
2192 %% american, USenglish -- American English hyphenation and quotation marks
2193 (/article)
2194 \langle issue \rangle \setminus documentclass[final,cover]{emisa}
2195 (*article | issue)
2196 %% The following package imports are recommended, but not obligatory;
2197 %% you might want take a look into their respective manuals if you
2198 %% don't know what they do.
2199 \usepackage{amsmath,amssymb,mathtools}
2200 \usepackage{algorithmic,algorithm}
2201 %% Additional package imports go here:
2202 %% \usepackage{}
2203 (/article | issue)
2204 (*issue)
2205 %% Insert here issue data:
2206 \volume{}% Volume No.
2207 \issue{}{}% Issue No. and Issue Date
```

```
2208 %% If there are any bibliography data bases to be used globally
2209 %% please indicate here:
2210 \bibliography{}
2211 %% Insert here any (relative or absolute) path to be searched for
2212 %% graphics files:
2213 \graphicspath{{./figs_base/},{}}
2214 %% Here you can alter the cover pages; e.g. this:
2215 %% \coverII{\AtPageDeadCenter{Something}}
2216 %% typesets the word "Something" centered on the inner side of the
2217 %% front sheet.
2218 %% You can also delete any cover pages at all by defining them empty,
2219 %% see below:
2220 \coverII{}
2221 %% This outputs the SIG-MOBIS page on the inner side of the back
2223 \coverIII{\AtPageCenter{\sigmobispage}}
2224 (/issue)
2225 (*article | issue)
2226 %% Here, the normal text begins.
2227 \begin{document}
2228 (/article | issue)
2229 (*issue)
2230 \tableofcontents
2231
2232 \begin{editorial}
2233 %% Please insert editorial text here.
2235 \end{editorial}
2236 (/issue)
2237 (*article | issue)
2238 \begin{article}{%
2239 %% Please declare the title elements of your article here. Unused
2240 %% elements can either be deleted or commented out, or else just let
2241 %% empty. In either case they are not typeset.
2242 %% If the option referee or review is given, all author tags, address,
2243 %% e-mail and acknowledgements will be likewise omitted.
      \title[Insert shorttitle for page headline]{Enter full title here}
2244
      \subtitle{Enter subtitle here, or leave empty}
2245
      \author*{FirstName LastName of corresponding author}{email@address.org}
2246
      \address{Enter affiliation of first (corresponding) author here. Note that only the starred v
2247
      %% Author with a different address
2248
      \author{FirstName LastName}
2249
      \address{Enter affiliation of second and further authors here. Add further authors following t
      %% Author with an already used address
2251
      \author{FirstName LastName}
2252
      \address[Letter of already used address]{}
2253
      %% Enter abstract, keywords, acknowledgements, authornotes
2254
2255
      \abstract{Enter abstract here}
```

2256

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

```
2257
      \acknowledgements{Enter acknowledgements here.}
      \authornote{If your submission is based on a prior publication and revises / extends this work
2258
      %% Please declare here the bibliography data base(s) you want to use
2259
      %% in this article (make sure to add the file extension, e.g. .bib):
2260
      \bibliography{}
2261
      %% Take note of the following closing bracket!
2262
2263
2264 (/article | issue)
2265 (*issue)
2266
      \editor{My self}
      \received{24 Octover 2014}
2267
      \accepted[2]{1 November 2015}
2268
      \doi{10.5073/EMISA.2011.11.1}
2269
      \license{License information}
2270
2271
      %% or
      \CCBYNCSAThree
      %% or
2273
2274
      \CCBYNCSAFour
2275 (/issue)
2276 (*article | issue)
2277 %% Please insert your article text here.
2278 \section{Introduction}
2279 \subsection{The research problem}
2280 %% Remember to provide a unique label for each section, table, figure, listing and algorithm for
2282 %% This directive typesets the bibliography. To achieve this, one has
2283 %% to run the biber program on the corresponding auxiliary file
2284 %% generated in the previous LaTeX run; you can just use the job name
2285 %% (the name of this file without ".tex")", e.g.: biber emisa-author-template
2286 \printbibliography
2287 %
2288 \end{article}
2289 (/article | issue)
2290 (*issue)
2291
2292 %% Please insert as much article environments here as are needed.
2293 \begin{article}{%
       \title{}
2294
       \subtitle{}
2295
       \author*{<Name>}{<Email address>}
2296
       \address{address line 1\\address line 2}
2297
       % Author with unique address
2298
       \author{<Name>}
       \address{address line 1\\address line 2}
2300
       % Author with the same address as another author
2301
       \author{<Name>}
2302
       \address[a]{}
2303
       \abstract{<Insert abstract>}
2304
       \keywords{Keyword 1 \and keyword 2 \and keyword 3}
2305
```

```
\authornote{This article extends an earlier conference paper, see ...}
2306
       \acknowledgements{}
2307
       \editor{My self}
2308
       \received{24 Octover 2014}
2309
       \accepted[2]{1 November 2015}
2310
       \doi{10.5073/EMISA.2011.11.1}
2311
2312
       \bibliography{}
2313
2314
2315
2316 \printbibliography
2317 \end{article}
2318
2319 \begin{cfp}
2320 %% Please insert your Call for papers here.
2321 \end{cfp}
2322
2323 \imprint
2324 \editorialboard
2325 \guidelines
2326 \langle /issue \rangle
2327 ⟨article | issue⟩\end{document}
2328 (/template)
```