Kiel Computer Science Series Manual

Abstract

This manual describes the "Kiel Computer Science Series", the Institution Series of the Department of Computer Science (Institut für Informatik) at Kiel University (Christian-Albrechts-Universität zu Kiel), in the following called *Series*. The Series' website is http://www.informatik.uni-kiel.de/kcss, where additional information, material, and existing publications can be found.

Advanced users of the Series' LATEX style can consult Appendix C at the very end of this manual in order to follow recent development.

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C News

1 Scope of the Series

The following works written at the Department of Computer Science are eligible to be published in the Series:

- → Dissertations and habilitation treatises.
- ▶ Lecture notes and textbooks of sufficient quality.
- > Surveys, collections, handbooks, and alike of sufficient quality.

The following works are *not* eligible to be published in the Series:

- ⊳ Student's thesis, e.g., Bachelor's, Master's, and Diploma theses.
- □ Technical reports. There is a separate infrastructure for technical reports at the Department of Computer Science in Kiel.¹
- > Yet unpublished original research, save dissertations and habilitation treatises.

The Series' IATEX style may be used also for works not published in the Series. However, only works published in the Series (which includes approval by our Quality Assurance, explained below) are allowed to bear the name "Kiel Computer Science Series" and its acronym KCSS. Also, the KCSS book cover may only be used when publishing in the Series.

2 Rationale

The aims of this series are twofold.

(i) It shall provide technical and administrative support to authors. It shall help and encourage authors to create high-quality documents with a unified appearance, and publish them in printed and electronic form.

 $^{^{1} \}verb|http://www.informatik.uni-kiel.de/ifi/forschung/technische-berichte/|$

(ii) It shall provide a means for authors to emphasize the quality and maturity of their work. This is particularly interesting for lecture notes, text books, surveys, etc. The Series provides an alternative to the 'traditional' way of using a commercial publisher. Note that with the Series, all rights remain with the author – the Department of Computer Science merely demands that the author gives his or her permission to the Department to publish the work electronically (as PDF) without charge. This way it is ensured that a maximum number of people can benefit from the work, students in particular.

A LATEX style was developed for the Series. This style is intended to 1) spare the author the burden of having to design a style from scratch, and to 2) achieve a common look and feel for all works published in the Series. This covers basic settings such as paper size and fonts but also details such as heading and enumeration styles. This style is carefully developed with an eye on good typography, or what at least a majority of literature presents as good typography. Thus we recommend to use the default settings, also in line with the objective of a common look and feel for the Series. However, the intention is that the KCSS and its style should serve the authors and not the other way around. Thus, the KCSS style provides many options to adjust the layout, and if an author strongly wishes to deviate from the default, for example to reduce the overall number of pages (see Section 8.3), the author should feel free to do so.

Experience has shown that the KCSS style is quite easy to use if it is used from the beginning on, rather than converting a document that is originally written in another style. We thus recommend to use this style rightaway, and to contact the style authors immediately if there are questions or comments.

Following the open-access spirit of the KCSS, the KCSS style itself may be freely used outside the KCSS as well. In particular, it is recommended to use this style also for Bachelor's and Master's theses, and the KCSS style provides specific package options for these use cases (see Appendix B).

3 Process for Publishing in the Series

- 1. Prepare your document using the LATEX style explained below. Use the layout options requested for the Series.
- 2. Send the signed form "Einverständniserklärung"² to Quality Assurance (QA).

²Can be obtained via http://www.informatik.uni-kiel.de/kcss

This form gives the Department of Computer Science the rights to publish electronic versions of your work (as PDF) without charge.

QA will respond by issuing you a number (e.g., 2011/1) and optionally an ISBN. Fees for ISBN registration have to be covered by the author.

- 3. Prepare book cover using the number and the ISBN, if any. If no ISBN shall be used, then please leave the respective field blank on the cover (technical details are described later); in particular do *not* use a barcode of the ISSN instead.
- 4. Send book cover and document to QA in PDF format.
- 5. Wait for approval by QA, if necessary adjust layout as requested by QA. When using the LATEX style with recommended options, only minor adjustments will be necessary in general.
- 6. From the files approved by QA, produce printed copies using a printing service of your choice. You may ask QA for recommendations which service to use; see also Section 4. In addition to the printed copies intended for your own use, the following statutionary copies are required:
 - 1) For a disseration, the examination regulations demand a certain number of copies to be delivered to the University Library (UB).
 - 2) Three copies have to be delivered to the Fachbibliothek for Mathematics and Computer Science (taken care of by Birgit Mähl), which will then be passed on to the German National Library and the University Library (UB) as required by law.

Step number 2) is *not* necessary if copies have been delivered to the University Library (UB) as per item 1) above, or if the printing service already takes care of it. QA may be inquired as to for which printing services this applies.

Note that softcover and hardcover are treated separately. For example, if you offer a softcover and a hardcover, and if softcover copies were given to the University Library as per item 1), then still three hardcover copies are required as per item 2).

7. Send the final version as PDF to QA to be made available on the Department's server. Two PDFs of the work are requested: the one from which printed copies are made, and one with the compact=strong option set for better screen viewing

- and reading on mobile devices (this option reduces margins but maintains all line and page breaks). In addition, the PDF of the book cover is also requested.
- 8. If printed copies can be ordered online, inform QA where orders can be placed, so that appropriate pointers can be put on the Series' website.
- 9. (Optional) The library of Schloss Dagstuhl³, the Leibniz Center for Informatics, aims for an in-depth coverage of literature on computer science. It is therefore recommended that you send the library a preferrably hard-cover copy of your book. Should you attend a future Dagstuhl seminar, this copy will then also be on display on a special shelf in the library during the seminar.

One copy is also welcome at the Fachbibliothek for Mathematics and Computer Science in Kiel.

4 Choosing a Printing Service

In general, each author can choose a printing service of his or her choice, because the Department of Computer Science has no interest in creating any frame contract with a specific service provider and does not want to profit financially. Sales revenues are only to be used by the author and hence, any legal contract is only between the author and the printing service.

However, publishing in the Series means that the Department of Computer Science of the CAU Kiel is the *editor* of the work and wants to achieve a common look and feel of all issues. Hence, there are certain requirements to a printing service listed below. As there is not the one-and-only perfect printing service, recommendations of possible printing services can be obtained from QA. Services differ in conditions, in particular concerning the rights of the author.

4.1 Requirements to a Printing Service

Paper format of a book in the Series is US Trade, which is 15.24 cm × 22.86 cm and supported by at least one major printing service. The printing service should support this format or at least a format very close to this, e.g., 15.5 cm × 22 cm, as provided by another major printing service. This should be taken into consideration when you prepare the document, since paper format may have implication on layout.

³http://www.dagstuhl.de/en/library/

- ► All works in the Series are also made available electronically (without charge) from a server run by the Department of Computer Science. Hence it is required that the printing service allows that in the given circumstances.
- ➤ Authors are encouraged to make printed copies available for order online. If
 this is intended, the printing service needs to provide the necessary sales and
 distribution infrastructure for the book.
- □ If printed copies shall be made available for order, they should be offered as a laminated hardcover and as a paperback version. The latter is intended to provide a low-priced version affordable for students.
- ⊳ The hardcover should be a casewrap, not a dustjacket one.
- The background for the book cover should be white. The book cover should be matte, but at least not high gloss.
- ⊳ If the option is given, a round spine should be preferred over a flat one.

5 Choosing a Price for Printed Copies

Usually, the price charged to customers who buy a printed copy through the printing service can be set by the author. The Department of Computer Science does not impose any hard limits on how the author should choose that price. However, the Series' focus is on *maximum dissemination*, so authors are encouraged to choose a moderate price. Note also that everyone in principle is able and allowed to produce a printed copy for himself or herself from the PDFs available on the Department's servers; this is intended.

6 Numbers and Versions

Works in the Series are numbered consecutively for each year, starting with 1 in each new year. So a particular work can be referred to by giving its year and that counter within the year, e.g., the number "2011/7" designates the 7th work in year 2011. The number of a work is placed on the book cover at two locations: on the spine and on the front.

The number of a work never changes, even when its contents is revised. To indicate a new revision, a version number is used. When the work is first published,

it must have version at least 1.0 (smaller versions can be used internally during the proof reading stage). The number and version appear at the beginning of the work on a page with meta data in the form: number, then the letter "v" followed by the version. E. g., "2011/7 v1.2" designates version 1.2 of the work number 2011/7. This information optionally may be followed by the word "dated" and then a date on which the version was published, in order to give the reader an idea how recent the version is, how much time went by during two versions, etc. If a date is given, it should be specified in ISO 8601 form, i. e., YYYY-MM-DD. For example, when version 1.2 of work 2011/7 was first published on the 15th of November 2011, then we write "2011/7 v1.2 dated 2011-11-15".

7 Basic Usage of the LATEX Style

The style consists of two files ifiseries.sty and localTheorem.sty. Compilation should be done with pdflatex. The most basic usage is like so:

```
\documentclass[10pt]{book}
\usepackage{ifiseries}
\begin{document}
\end{document}
```

A multitude of useful packages is loaded by the style, so commonly you will only need a very few additional \usepackage commands.

By default, no theorem environments are defined. To have a broad set of theorem environments available, use the theorems option. It can be set to numbersfirst or numberslast. Details are explained below. Here is a short example with theorems enabled:

```
\documentclass[10pt]{book}
\usepackage[theorems=numbersfirst]{ifiseries}
\begin{document}
\end{document}
```

8 Important Options for the LaTeX Style

If in doubt, most of the default options are fine. In this section, a few options are presented that however commonly need to be adjusted. Any modifications

beyond this which noticeably influence the layout must be approved by QA when publishing in the Series.

8.1 When Using an Outdated TeX Live

When using TEX Live version 2009 or earlier (perhaps this also applies to version 2010), it may be necessary to use the legacytexlive=true option. You should first try to get away without it, but if problems arise then try using this option. One of the major effects of this option is that bibtex will be used for the bibliography (if any) instead of the newer and recommended biblatex.⁴

Many Linux distributions offer LATEX as packages, but those are most often outdated and not good enough. Installing TEX Live⁵ manually is easy and gives an up-to-date LATEX system. At the time of writing, Ubuntu still ships with the heavily outdated TEX Live 2009. Although we recommend a more recent version (at least version 2011) it is possible to use the Series' style with TEX Live 2009, using the legacytexlive=true option. When using Ubuntu, be sure to install the texlive-full package.

8.2 Setting the Paper Size and Binding Correction

The default paper size is US Trade, which is $15.24 \, \text{cm} \times 22.86 \, \text{cm}$. The $15.5 \, \text{cm} \times 22 \, \text{cm}$ format can be chosen by paper=15522. Paper sizes can also be specified explicitly, e. g., paperwidth=15.5cm, paperheight=22cm would do the same as paper=15522.

A binding correction can be set via bindingcorrection. The text block will be shifted outside (on left-hand side pages to the left, on right-hand side pages to the right) by this amount. The default is 0 mm. This parameter has no influence on the width of the text block.

The default page layout makes the outer margins twice the size of the inner margins. There are good reasons for this choice. However, for larger numbers of pages (say, 300 pages or more) it can lead to the inner margins appearing too small in the middle of the book, or even text being difficult to read. This can be counter-acted by using a binding correction. Another possibility is to change the page layout such that inner and outer margins have the same size. This is done

⁴"BibTeX" is not to be confused with "bibtex". Roughly speaking, the former denotes a bibliography system, which we use in any case. The latter denotes a specific way to handle this system. A modern replacement for bibtex is biblatex.

⁵http://www.tug.org/texlive/

using the hcenter=true option. This parameter also has no influence on the width of the text block.

In order to *scale* the document to a new paper size, do not modify any parameters, but use pdfjam on the PDF file, like so, here scaling to A4:

```
pdfjam --paper a4 file.pdf
```

This should however better not be used for final publication, but it can be useful, e. g., when preparing copies for the reviewers of a dissertation.

8.3 Creating More Efficient Pages

The KCSS defaults have been chosen such that they adhere to good, widely acknowledged typographical practice. For example, a typical recommendation is to not put more than 75 characters per line (Bringhurst [Bri08, p. 26]). However, some authors prefer to put more content on a single page, resulting in fewer pages overall. The KCSS defaults already give slightly longer lines, namely close to 77 characters per line on average. There are several ways to achieve substantially more efficient pages, as outlined in the following.

- Increase marginfrac. The default is 12, and a higher value gives smaller margins. When increasing this value, use of hcenter should be considered. Increasing marginfrac beyond 24 is perhaps not a good idea.
- Use a more efficient font, like font=TX. This should only be done if reducing margins alone is not enough. The extreme setting marginfrac=24, font=TX leads to almost 100 characters per line on average (with the default paper size), which may be considered typographically questionable.
- Use a larger paper size.

8.4 Declaring the Main Language

By default, English will be assumed to be the main language of the document. The language can be switched inside the document using the \selectlanguage command or the otherlanguage environment, see the documentation of the babel package for details. In case that German is the main language, the option language=german should be used. This makes German the default language and takes care of some additional adjustments, like dotted numbers in section headings.

Another important change concerns the bibliography if bibtex is used instead of biblatex. Then the style attempts to provide support for a German bibliography

using babelbib. The default and recommended way however is to let the style use biblatex and *not* bibtex. When legacytexlive is given, then this default automatically changes in favor of bibtex, since biblatex is not available under older TEX Live versions. So the combination of legacytexlive=true and language=german effects some profound changes on the bibliography.

When using biblatex, be sure to add appropriate hyphenation fields in your BibTeX database to declare the language of each bibliography entry.

8.5 Choosing a Theorem System

A theorem system may be specified via the theorems option. The following two possibilities exist:

theorems=numbersfirst Theorems start with the number first, e. g., "3.2.7 Theorem". All theorem types (theorem, proposition, etc.) and equations share the same counter. Third-level numbers are reset in each section. Numbering is within sections, e. g., theorems in a section with number 3.2 are numbered 3.2.1, 3.2.2, and so on. To avoid confusion, numbering of subsections and below is disabled. This numbering scheme makes it very comfortable to find a particular theorem

theorems=numberslast The number comes second, e.g., "Theorem 3.2.7". All theorem types (theorem, proposition, etc.) share the same counter, but equations have their own counter. Numbering is within chapters.

or equation, given its number. It is also suited for numbering each paragraph.

The language for the theorem system (e.g., "Theorem" vs. "Satz") is deduced from the main language of the document, explained above.

The environment in which theorems are numbered is set to a reasonable default. The theoremswithin option can be used to change it. When there are no numbered sections, it should be set to chapter in order to avoid redundant "0" components in theorem designators.

8.6 Choosing a Figure System

The figure system provides means to format figures and their captions. You may choose between the following:

figure=floatrow The floatrow package is used. This is the default.

8.7 Reducing Margins

figure=subfig The subfig package is used. Additionally, the sidecap package is loaded.

8.7 Reducing Margins

For electronic publication, it is required that – in addition to the PDF from which the printed copies are created – one PDF is delivered with margins and running titles reduced for better screen viewing but otherwise being identical to the printed version. This is achieved easily with the compact option. Setting compact=strong creates the required PDF.

9 Structure of a Document in the Series

Documents published in the Series should follow a particular structure:

- Title page. A macro \gentitlepage is provided for generic title pages. For dissertations, a more specific title page can be generated with a macro \disstitlepage.
 The use of those macros is demonstrated below and explained in more detail in Section 10. For a student's thesis, a macro \studtitlepage is provided, see Appendix B. Alternatively, \makegentitlepage, \makedisstitlepage, or \makestudtitlepage can be used after setting parameters by appropriate \renewcommands, explained later.
- 2. Meta information, on one page. This page should be generated using the \metapage macro or alternatively by \makemetapage after setting parameters via \renewcommand as explained later. In particular, this macro prints the correct ISSNs. Its use is demonstrated below and explained in more detail in Section 10.
- 3. A chapter titled "About this Series". The text for this chapter is the same for all works and is provided as a file about-this-series.tex, which can be included.
- 4. For dissertations, a page naming the reviewers and date of disputation. This page can be generated using the \dissreviewerpage macro or alternatively the \makedissreviewerpage macro after setting parameters via \renewcommand as explained later. For a student's thesis, a macro \eidesstatt is provided to be called at this point, see Appendix B.
- 5. Summary. For dissertations and habilitation treatises, it is common to give the summary in German, even if the rest of the work is in English.

- 6. Abstract. This is a very compact summary.
- 7. For dissertation and habilitation treatises, a preface written by the supervisor. This preface should be titled "Preface by *SUPERVISOR*", where *SUPERVISOR* is to be replaced by the name of the supervisor.
- 8. A preface written by the author. If there is a preface by the supervisor, the preface by the author should be titled "Preface by the Author", otherwise just "Preface".

This preface may contain acknowledgements in a section titled "Acknowledgements".

- 9. The table of contents, generated with \tableofcontents.
- 10. If applicable, the list of figures, generated with \listoffigures.
- 11. If applicable, the list of tables, generated with \listoftables.
- 12. The main part of the work, divided into chapters. Additional divisions may be introduced using parts.
- 13. Appendices, if any.
- 14. Bibliography. The main bibliography should be created with \tocbibliography instead of \bibliography. The former takes care of a correct entry in the table of contents and the PDF bookmarks. The name of the bibliography (as it appears in the heading and table of contents) is "Bibliography" by default and "Bibliografie" if language=german. It can be adjusted using the refname option.

The \tocbibliography command does not take any arguments (contrary to \bibliography). The name of the BibTeX database can be given using the bibresource option to the style, e.g.,:

\usepackage[bibresource={my/database.bib}]{ifiseries}

With newer TEX systems, it is mandatory to specify the .bib suffix.

By default, biblatex is used for the bibliography, not bibtex. When biblatex is used, additional bibliography databases can be specified in the preamble with \addbibresource, see the biblatex documentation. It is also admissable to leave the bibresource option empty and only use \addbibresource manually.

9.1 Example Dissertation

Here is an example code for a dissertation (a template file similar to this is available from the website; that should be used when starting to write). We use \blindtext in places where text is to be filled in by the author (or the supervisor). The titles "First Part", "First Chapter", etc. are only placeholders and must be replaced by the actual titles. The bibliography is assumed to be generated from a BibTeX database in the file mybib.bib.

```
\documentclass[10pt]{book}
\usepackage[theorems=numbersfirst,bibresource=mybib,%
%font=TX,%
%marginfrac=24,hcenter%
]{ifiseries}
\begin{document}
\frontmatter
\disstitlepage%
{My Fake Dissertation \\[.1em]
With a Long Title \\[.1em]
Over Three Lines}%
{Just for Fun}%
{Dipl.-Math.~John Q. Postgraduate}%
{nat}%
{2011}
\metapage%
{2011/99 v1.0 dated 2011-11-15}%
{\url{http://john-q-postgraduate.name}}%
{Fake Research Group}%
{John Q. Postgraduate.
\textit{My Fake Dissertation With a Long Title.}
Number 2011/99 in Kiel Computer Science Series.
Department of Computer Science, 2011.
Dissertation, Faculty of Engineering,
Kiel University.}%
```

```
{manual-demo.metapage.bib}%
{2011 by John Q. Postgraduate}%
\input{about-this-series}
\dissreviewerpage%
{Prof.~Dr.~Musterprofessor \par Musteruni in Musterstadt}%
\{ Prof. \hbox{$\sim$Dr.$$$}^-Musterprofessor \verb|\par Musteruni in Musterstadt \} \%
{}% no third reviewer
{30.~Februar 2000}%
\selectlanguage{ngerman}
\chapter*{Zusammenfassung}
\blindtext
\selectlanguage{english}
\chapter*{Abstract}
\blindtext
\chapter{Preface by John Q. Supervisor} % by the supervisor
\blindtext
\chapter{Preface by the Author}
\blindtext
\section*{Acknowledgements}
\blindtext
\tableofcontents
\listoffigures
\listoftables
\mainmatter
\part{First Part}
\chapter{First Chapter}
\blindtext[2]
```

```
\section{First Secion in First Chapter}
\blindtext[10]
\section{Second Secion in First Chapter}b
\blindtext[15]
\chapter{Second Chapter}
\blindtext[25]
\part{Second Part}
\chapter{Third Chapter}
\blindtext
\appendix
\chapter{First Chapter of Appendix}
\blindtext
\chapter{Second Chapter of Appendix}
\blindtext
\backmatter
\tocbibliography
\end{document}
```

10 Helpful Features Provided by the LATEX Style

Latin Abbreviations: Smart macros for common abbreviations are provided: \eg, \ie, \cf, \Eg, \Ie, \Cf, \etal, \etc, \vs. The first six will automatically insert a comma and an \xspace if not followed by a comma already. The last three will insert a dot and an \xspace when not followed by a dot already. Any dots inserted by the macro, are also followed by \@, which signals that here is not the end of a sentence. This is important for horizontal spacing.

Enumerations: Compact versions of all three enumeration environments are provided:

compactitemize
compactenumerate
compactdescription

They are often more appropriate when the enumeration semantically is part of a paragraph.

(These environments are still provided when using layout=false, but then they are not compact anymore. The layout option is explained in Appendix A and is not required for publishing in the Series.)

Smart References: The hyperref package's \autoref feature is configured. Instead of \ref you can use \autoref and have the words "Chapter", "Section", "Theorem", etc. automatically inserted.

Acronyms: Acronyms like the Extensible Markup Language (XML) or Unified Modeling Language (UML) should be used with the acronym package, which is already loaded and configured by default. It handles many useful features about acronyms such as a list of acronyms or providing a long version of the acronym when it is used for the first time such as for XML and UML above. Additionally acronyms are typeset a little bit smaller in order to better integrate into normal text.

Generic Title Page: For the generic title pages, the macro \gentitlepage is provided. It takes the following 4 arguments:

- 1. Title
- 2. Subtitle
- 3. Author(s)
- 4. A text to be set at the bottom of the title page

Alternatively, the title page can be generated with \makegentitlepage after using \renewcommand on the following commands: \titlepagetitle, \titlepagesubtitle, \titlepageauthor, \titlepagetext.

Dissertation Title Page: For the mandatory title page for dissertations, the macro \disstitlepage is provided (it performs an appropriate call to \gentitlepage). It takes the following 5 arguments:

1. Title

- 2. Subtitle
- 3. Name of candidate
- 4. Indicator for the type of degree: either nat or ing
- 5. Year of submission

Alternatively, the title page can be generated with \makedisstitlepage after using \renewcommand on the following commands: \titlepagetitle, \titlepagesubtitle, \titlepageauthor, \disstitlepagedegree (defaults to nat), \disstitlepageyear.

Meta Data Page: Each work must have a page with meta data. It can be created with the \metapage macro. It takes the following 7 arguments:

1. Number of the work in the Series plus version, and an optional date for the version. E. g., if the number of the work is 2011/99 and the version is 1.2 released on 2011-11-12, then the first argument would be:

2011/99 v1.2 dated 2011-11-12

Or, if omitting the date is preferred by the author, then just: 2011/99 v1.2

- 2. Contact information of the author, e.g., a permanent web or e-mail address. If no contact information shall be provided, leave this argument empty.
- 3. Name of the research group in the Department with which the author is affiliated.
- 4. An example how to cite this work.
- 5. The name of a file with an example BibTeX entry for the work. This will be included using \lstinputlisting.
- 6. Year of copyright and name of author.
- 7. Some additional text to be put below the other information. This argument may be left empty.

When choosing *Books on Demand* as a printing service, the following text is required here: "Herstellung: Books on Demand GmbH, Norderstedt". Do not use the word "Verlag" here, it will cause confusion.

Alternatively, this page can be generated with \makemetapage after using \renewcommand on the following commands: \metapageversion, \metapagecontact, \metapagegroup, \metapagecite, \metapagebibfile, \metapagecopyright, \metapagetext.

Dissertation Reviewer Page: For the mandatory page stating the reviewers and date of disputation for dissertations, the macro \dissreviewerpage is provided. It takes the following 4 arguments:

- 1. First reviewer. To have a rule drawn, write an underscore: _
- 2. Second reviewer. The underscore works here as well.
- 3. Third reviewer. The underscore works here as well. In addition, this field can be left completely empty, for no third reviewer at all.
- 4. Date of disputation. The underscore works here as well.

Alternatively, this page can be generated with \makedissreviewerpage after using \renewcommand on the following commands: \dissreviewerpagei (defaults to underscore), \dissreviewerpageii (defaults to underscore), \dissreviewerpageiii (defaults to empty), \dissreviewerpagedate.

11 Book Cover

The package for the book cover is in the file kcssCover.sty. Several lengths and a few other options can be set when it is loaded. The contents of the cover (title, author, text on the back, etc.) can be specified by \renewcommanding certain commands.

11.1 Common Length Options

The following length options commonly have to be given. If unsure about their meaning, you can experiment with different values and observe how the cover changes. All those values should be based on information given by the printing service.

coverwidth Width of the cover (when the book is closed and without the binding). coverheight Height of the cover.

smallercoverwidth, smallercoverheight The cover for the hardcover usually is slightly wider and higher than for the paperback. The cover style tries to make both versions look as similar as possible. To this end, the width and height of the paperback has to be specified. This is done via options smallercoverwidth and smallercoverheight. They must always be specified. When creating the paperback cover, they are the same as coverwidth and coverheight, respectively.

11.2 Boolean Options

- spinewidth Width of the spine. It depends on the number of pages. The printing service should offer some way to calculate the spine width.
- spinecorr Spine correction. This should reflect the width of the binding on each the front and the back.
- bleed Width of an additional margin all around the cover. Colored areas should extend fully into the bleed. The packages takes care of this with regard to the colored boxes, provided the correct bleed is specified.
- safety Width of a margin inside the cover, where no important information should be placed. This option has no effect on layout, but it determines the positions of green help lines shown when safetylines=true is given. Those lines provide a way to check that no contents extends into the safety margin.
- frontgraphicxshift, frontgraphicyshift Amount by which the graphic on the front is shiftet in x and y direction, respectively. Adjust that until you find the result pleasing. Giving zero values puts the graphic in the center of the front.

11.2 Boolean Options

- showlayoutlines Whether to show black lines which mark key features of the layout. This can be helpful to get an idea of the logic of the layout, which in turn can help, e.g., to decide how to position the graphic on the front. Default is false.
- showsafetylines Whether to show green lines which mark the safety margin. Default is false.
- showbleedlines Whether to show red lines which mark the border of the cover and thus the beginning of the bleed area. Default is true, but it should be set to false for production.
- germantext Whether to use the German version of the text about the Series on the back. Default is false, so the English text is used.
- twolineresearchgroup Whether the name of the research group stretches accross two lines. The default is false, which indicates that the name of the research group occupies just a single line. This information is required to adjust the layout by a few millimeters.

11.3 Commands to be Redefined

Modest deviations from the text sizes given below (\Large, \Huge, etc.) are allowed if the text otherwise would not fit nicely.

\spinetitle The title how it appears on the spine. It should be \Large and \textbf. Example:

```
\renewcommand{\spinetitle}{\Large\textbf{My Fake Dissertation}}
```

\spineauthor The author how it appears on the spine. It should be \Large.

\kcssnumber The KCSS number, e. g., 2011/1. It should be given without any size modifiers.

\fronttitle The title how it appears on the front. It should be \Huge and \textbf. If it stretches over multiple lines, it may be a good idea to increase spacing between lines, e.g., by using \\[.5m] to end the line.

\frontauthor The author how it appears on the front. It should be \LARGE.

\backtext The text in the blue box on the back. It should be given without any size modifiers. The length of this text should be adjusted in order to fill an amount of space that makes the back of the book good-looking. The blue area should stretch far enough to the bottom, but should not get too close to the text about the Series, outside of the blue area.

The text should in large part (about $\frac{3}{4}$ to $\frac{2}{3}$) be a summary of the book's contents so designed to gain the potential reader's interest. The last part (about $\frac{1}{4}$ to $\frac{1}{3}$) should be a short CV of the author.

The CV may contain a photograph of the author. The text should be wrapped around the photograph. This can be achieved by means of the wrapfigure environment. Let us look at an example:

```
\par\medskip%
\begin{wrapfigure}[6]{l}{2.35cm}
  \vspace{-\baselineskip}
  \includegraphics[width=2.35cm]{no_photo}
\end{wrapfigure}%
\color{white}%
```

11.4 Document Class and Packages

First, we introduce some vertical space to the rest of the test with a \medskip. Then the wrapfigure environment starts. It contains a photo scaled to 2.35 cm width; this width is also passed to the wrapfigure environment. A negative vertical space is necessary sometimes, here of length -\baselineskip. The wrapfigure environment takes two more arguments besides the width. First, we have to tell it the number of lines of text that shall be displayed to the side of the picture; this cannot be computed accurately enough in an automatic way. Then we have to specify whether the picture shall be left or right; it should be chosen to put it left. After the wrapfigure environment, it is necessary to explicitly switch back to white text color.

\isbn The ISBN bar code to be displayed on the back, if any. If none shall be displayed, define this command to be empty. If an ISBN bar code shall be displayed, this command usually will be a single \includegraphics command.

\researchgroup The name of the research group, to be displayed on the back below the Department's logo. It should be given without any size modifiers. It can be a single line or two lines, separated by \\. In the latter case, also set twolineresearchgroup=true.

11.4 Document Class and Packages

The document class should be standalone, and besides the kcssCover, the ifiseries package should also be loaded with the pagelayout=false option to prevent interference with the layout. The base font size should be 12. Here is an example preamble:

```
\documentclass[12pt]{standalone}
\usepackage[pagelayout=false]{ifiseries}
\usepackage[%
showbleedlines=false,%
coverwidth=15.56cm,%
coverheight=23.50cm,%
bleed=1.905cm,%
smallercoverwidth=15.24cm,%
smallercoverheight=22.86cm,%
spinewidth=2cm,%
spinecorr=5mm,%
safety=5mm,%
```

```
frontgraphicxshift=0cm,%
frontgraphicyshift=-3cm,%
]{kcssCover}
```

After the preamble, \renewcommands follow. The actual cover is created using \makecover. The body of the document should look simply like this:

```
\begin{document}
\makecover
\end{document}
```

12 Troubleshooting

12.1 Embedding Fonts

Printing services require that all fonts are embedded in the PDF, and that should also be so for the PDFs offered on the Department's website. Under most circumstances, fonts are already embedded after a normal run of pdflatex. This can be checked using the command line utility pdffonts.

If graphics are included that were created with programs that do not embed fonts, some fonts may be missing. We made good experiences with the following command in such cases:

```
gs -sDEVICE=pdfwrite -q -dBATCH -dNOPAUSE -dSAFER \
-dPDFX \
-dPDFSETTINGS=/prepress \
-dAutoFilterColorImages=false \
-dColorImageFilter=/FlatEncode \
-dAutoFilterGrayImages=false \
-dGrayImageFilter=/FlatEncode \
-sOutputFile=myDiss-out.pdf \
-c '>setdistillerparams' \
-f myDiss.pdf \
-c quit
```

12.2 Lines Extending into Margins

When lines extend into margins, additional places for hyphenation can be defined or manual line breaks inserted. Another method is switching to sloppy mode temporarily. This is done by inserting the command \sloppy shortly before the unfortunate line break. Shortly after, the command \fussy should be issued. Alternatively, there is an environment called sloppypar. The sloppy mode can be particularly useful with long URLs.

Sloppy mode should not be used for larger parts of the document or for the whole document.

13 Pointers for Writing Good LATEX

- □ General advice: pay attention to detail.
- ⊳ Read "Mathmode" by Herbert Voß.⁷
- → Follow the booktabs packages to typeset tables.
- □ Check package documentation. Some useful packages that are already loaded by our style are: algorithm2e, enumitem, floatrow (or subfig and sidecap), hyperref, listings, numprint, varioref.

To check their documentation, type texdoc followed by the package's name.

- ▷ Use BibTeX (with biblatex) rather than writing the bibliography by hand.
- ▷ Define your own macros for recurring markup and constructions. This helps to give your document a consistent look. It also allows to make changes by just changing the macro definitions.

As an example, suppose constructions like the following appear frequently in your document: $\{x\in \mathbb{R}\}\$; x>0 \}. First, you should have a macro for the real numbers:

```
\label{eq:local_local_relation} $$\operatorname{RR}_{\operatorname{R}} $$\operatorname{RR}_{\operatorname{R}} $$
```

Then you should have a macro for "the set of all elements such that...":

⁶http://www.ctan.org/tex-archive/info/l2tabu/

 $^{^{7}}$ http://ctan.org/tex-archive/info/math/voss/mathmode/

This reduces the construction to \setst{x\in\RR}{x>0}. This results in easier to write and also more readable code. Also, if one later would like to have a different symbol in there (instead of the semicolon), more space after the colon, or whatever, only a *single* command definition has to be changed.

- Pay attention to horizontal spacing. One typical pitfall is that horizontal space between sentences is enlarged, or what appears like the end of a sentence to LaTeX. This behavior can be turned off globally by using \frenchspacing, and this is the default since February 2015. To get the old behavior, use the frenchspacing=false option. If french spacing is disabled, the following must be considered. If a dot, exclamation mark, or question mark is not to signal the end of a sentence, follow it by \@, i.e., a backslash and the "at" sign. Be aware that the effect of one of those characters (dot, exclamation mark, question mark) on horizontal spacing can survive other characters in between; e.g., in the following, the space between the closing parenthesis and the next word would be enlarged: (foo.) bar. To prevent that, write: (foo.\@) bar.
- Only put small horizontal spaces after intermediate dots in series of initials, like
 so: A.\, B.∼Name
 - The tilde is in order that no line break happens between initials and the last name.
- Pay attention to hyphenation. For English text, check the documentation of the hyphenat package, which is automatically loaded. For German text, check the relevant section in the babel package's manual.
 - A common pitfall is that compound words with a hyphen, like "forward-compatibility", will not be subject to additional hyphenation if written with a hyphen in the source code. For English text, use \hyp instead to allow the word to be hyphenated otherwise, so write: forward\hyp{}compatibility. For German text, use: "= (These are two characters: double quotes, then an equal sign.)
- End paragraphs by a blank line or \par. A double backslash \\ does not mark
 the end of a paragraph! When additional vertical spacing between paragraphs is
 required, use \smallskip, \medskip, or \bigskip.
- ▷ In case of excessive or inconsistent vertical spacing, try \raggedbottom at the beginning of the document. Beware, however, that this option also has its drawbacks with respect to typography.

Alternatively, use \par\vfill at the end of problematic pages.

- Do not be afraid of floating figures. Our style adjusts several placement parameters to improve the placement mechanism. Only use the h option to the figure environment when you are sure that it is required and will not cause problems. When using h, pay attention that no sequence like this occurs: figure, one or two lines of text, and then a page break.
- When additional colors are required, e. g., for syntax highlighting in source code, have a look at the university colors.⁸
- When no changes to the text are expected anymore until the next release, check for unfortunate line and page breaks. It is admissible to enlarge single pages by one or two lines by use of one of the following:

```
\enlargethispage{\baselineskip}
\enlargethispage{2\baselineskip}
```

- ▶ Write clean source code; follow a certain coding style. Use blank lines and comments to structure the source code.
 - Write short lines in your source code, preferably use semantic line breaks. Rule of thumb: break the line (i. e., press the Return or Enter key) after each clause of a sentence. This makes the code easier to diff. This makes the code easier to edit. Do not confuse a line break with the wrap function of your editor!
- Use a version control system (such as Mercurial or Subversion) to manage LateX code. This helps tracking changes and prevents data loss. The Department can help setting up the required repositories.

14 Contact

- ⊳ Reinhard von Hanxleden rvh@informatik.uni-kiel.de (Organization and QA)
- ► Lasse Kliemann lki@informatik.uni-kiel.de (QA, LATEX questions, website, other technical questions)

⁸ http://www.rz.uni-kiel.de/ausgabe/CAU-Farben.pdf

15 Credits

The Kiel Computer Science Series was initiated by Hauke Fuhrmann and Reinhard von Hanxleden in 2011. Its concept and the interior design were established by Hauke Fuhrmann, Reinhard von Hanxleden, Lasse Kliemann, and Christoph D. Schulze. The book cover design was conceived by Hauke Fuhrmann. All LATEX implementations, the website, and the manual were written and are being maintained by Lasse Kliemann.

16 Known Bugs

1. The PDF bookmarks for sections in the appendix are broken when using the article class. Any suggestions are welcome. Since publishing in the Series implies using the book class, this bug does not affect publishing in the Series.

A Optional Arguments for the LATEX Style

The style takes several optional arguments. Most of them can (and usually should) be left at their defaults when publishing in the Series (for a few exceptions see Section 8).

A.1 Document Class

The style works with the book and article classes. When publishing in the Series, book should be used. But for other use cases, article may be more appropriate. For example, this manual is written using the LATEX style of the Series combined with the article class.

A.2 Basic Layout

layout A Boolean option. When set false, the style tries to suppress all major changes to the layout. This is useful when combining with a different style, e.g., as required by another publisher. Such a situation may arise when parts of a thesis are published in a conference proceedings or in a journal where a different style is mandatory.

 $^{^9 {\}it cds@informatik.uni-kiel.de}$

A.2 Basic Layout

pagelayout A Boolean option. If false, no changes to the page geometry (margins, text block, etc.) are made (unless compact is used). See also the paper option below. The default is true.

paper, paperwidth, paperheight Controls the paper size. All sizes known to the geometry package can be chosen via the paper option, including a4paper and a5paper. If a paper size is not known to the geometry package, you can specify its dimensions explicitly using paperwidth and paperheight. For example, one would write:

paperwidth=13.5cm, paperheight=21.5cm

This will overwrite any choice made via paper.

The default paper size is US Trade, which is $15.24 \,\mathrm{cm} \times 22.86 \,\mathrm{cm}$. If using much larger paper sizes than this (e.g., A4), it is recommended to also specify largepaper=true (see below). For larger paper sizes, it also might be appropriate to increase the basic font size.

Using paper= will cause the style not to set the paper size (unless compact is used, which works by redifining the paper size). Together with pagelayout=false, it can be used to avoid any calls to the geometry package's \geometry command.

largepaper A Boolean option. If set true then other defaults for marginfrac, headsepmult, and footskipmult are set, which are better suited for larger paper sizes, e.g., A4. See below for details. The default is false.

marginfrac If the twoside option is given to the document class (default for book) then this parameter controls which fraction of the paper width is used for the inner margin; the outer margin is twice that size. The same fraction of the paper height is used for the upper margin; the bottom margin is twice that size. This page layout follows a "sound, elegant and basic medieval structure" (Bringhurst [Bri08, p. 173]).

The default is 12; if using largepaper=true then the default is 9.

When the paper proportions are 2 : 3, as with US Trade or Royal, then a value of 9 gives an additional feature: the height of the text block is the paper width.

When the oneside option is given to the document class (default for article), then first the above construction is applied, but finally the text block is horizontally centered. The width of the text block is not changed, so each the left and the right margin are $\frac{3}{2}$ times the page width divided by marginfrac.

- headsepmult This number multiplied by \baselineskip defines the distance between header and text block. The default is 1.5. This should not be changed when printing on US Trade paper or paper of approximately the same size. When largepaper is set, the default is 2.
- footskipmult This number multiplied by \baselineskip defines the distance between page number and text block. The default is 3. This should not be changed when printing on US Trade paper or paper of approximately the same size. When largepaper is set, the default is 3.5.
- bindingcorrection This text block is shifted outwards by this amount. The default is 0 mm.
- hcenter A Boolean option. If true, the inner and outer margins are made equally wide while maintaining the width of the text block. The default is false if the twoside class option is given (default for book class), otherwise the default is true.
- runningtitle A Boolean option. If false, then running titles are not printed. This option has no influence on the size of the text block. The default is true.
- leftmarkright A Boolean option. If true, then \rightmark is defined to be the same as \leftmark. This is mostly useful for the book document class when there are no sections. Then the left and the right running titles will show the name of the chapter. The default is false.
- compact When publishing electronically, it is desirable to reduce margins. This makes it easier to read the PDF on a small screen, like the one of an e-book reader. It also makes it easier to work with the PDF on a computer screen with multiple windows opened. The compact option allows to trim margins, headers, and footers, while leaving the rest of the document as it is in particular all page breaks are maintained exactly as they are. (Exception: title pages created with \gentitlepage receive some extra vertical space at the top for a better appearance.) Possible choices are:
 - compact= Do nothing. This is the default and should be used for printing.
 compact=moderate Trim margins to a minimum and move headers and footers
 as close as possible to the text block.

A.2 Basic Layout

compact=strong Trim margins to a minimum, disable headers completely and move footers as close as possible to the text block.

font To select the font. Default is Palatino. Choices for fonts are:

font=Bera Bera Serif combined with Bera Sans and Bera Mono.

font=Charter *Charter* combined with *Bera Sans* and *Bera Mono*. This font sometimes has the problem: "Too many math alphabets used in version normal." Fixes for this are welcome.

font=ConcreteEuler *Computer Concrete* with sans-serif headings and combined with *Euler* math fonts and *Bera Mono*.

font=Kerkis *Kerkis* with semi-bold headings and combined with *Bera Sans* and *Bera Mono*. This font sometimes has trouble in math mode, e.g., tildas extending into symbols.

font=KP The KP fonts. They have some resemblance with Palatino.

font=LatinModern *Latin Modern* with sans-serif headings and combined with *Bera Mono*.

font=Palatino Palatino combined with Bera Sans and Bera Mono.

font=Times Times combined with Helvetica and Bera Mono.

font=Termes TFX Gyre Termes combined with Bera Sans and Bera Mono.

font=Utopia Utopia combined with Bera Sans and Bera Mono.

dottednumbers A Boolean option, controlling whether a dot is placed at the end of section and theorem counters. If set false, section headings will look like "1.4.2 Heading". If set true, headings will look like "1.4.2. Heading". The latter is more common in German texts. The default of the option depends on the language option: if language=english (the default), then dottednumbers=false is default. If language=german, then dottednumbers=true is default.

halfparskip A Boolean option. If set true, it disables paragraph indentation and instead increases vertical space between paragraphs. This type of layout is typographically disputed, but may be justified in certain cases. It is justified for example when the document contains many short paragraphs.

halfparskipfill If using halfparskip, this option controls the fraction of a line that is kept blank at the end of a paragraph. This is needed to detect the end of

- a paragraph even if it is the last paragraph on a page. The default is 0.25, i.e., $\frac{1}{4}$ of a line.
- frenchspacing If set true (the default), then no additional horizontal space is added after punctuation marks. When turning this option off, please also read the corresponding comments in Section 13.

A.3 Bibliography

- biblatex A Boolean option controlling whether the biblatex package is loaded. The default is true, unless legacytexlive is given.
- biblatexstyle The style to use with biblatex, if using biblatex. The value of this option is passed to the style= option of biblatex. The default is alphabetic.
- biblatexBackend The value to be passed via the backend option to biblatex. Default is biber.
- biblatexOptions Additional options to pass to the biblatex package, if loaded. Default is maxbibnames=10,babel=other.
- biblatexAdditionalOptions Options to pass to biblatex in addition to biblatexOptions. Default is empty. This option is useful if one would like to use the default for biblatexOptions plus some additional options.
- babelbib A Boolean option controlling whether the babelbib package is loaded. The default is false, unless legacytexlive and language=german is given.
- natbib A Boolean option controlling whether the natbib package is loaded. The default is false, unless legacytexlive is given.
- natbibOptions Options to pass to the natbib package, if loaded. The default is sort, numbers.
- bibliographystyle The bibliography style to use for bibtex. Default is alphaurl, but when language=german and legacytexlive are given, the default is babalpha. This option is ignored when using biblatex; then biblatexstyle and biblatexOptions can be used to tune the bibliography style (and the citation style).

A.4 Environments

- bibresource The BibTeX database file to use. If using biblatex, this is directly passed to \addbibresource, if non-empty. If using bibtex, this is passed to \bibliography.
- refname The name of the bibliography as it appears in the heading and table of contents.

A.4 Environments

algorithmOptions Options to pass to the algorithm2e package. Default is:

linesnumbered, ruled, vlined

- algorithmForwardCompatibility A Boolean option controlling whether certain forward-compatibility hacks for the algorithm2e package are loaded. The default is true. You can disable this if it should cause problems.
- algorithmBackwardCompatibility The same for backward-compatibility. It is true by default, but can be safely disabled by users of recent TeX Live versions.
- tikz A Boolean option whether the tikz package and several TikZ libraries are loaded. Default is true.
- figure Which figure system to use. You can choose from the following options:
 - figure = No figure system is loaded. You can then manually load and configure a figure system of your choice.
 - figure=floatrow The floatrow package is used. This is the default.
 - figure=subfig The subfig package is used. Additionally, the sidecap package is loaded.
- subfigOptions Options to be passed to the subfig package, if it is loaded. Whether it is loaded can be controlled via the figure option. The default for subfigOptions is caption=false, font=footnotesize.
- theorems Which theorem numbering scheme to use. Per default, no theorem environments are defined. The following values can be chosen:
 - theorems=numbersfirst Theorems start with the number first, e.g., "3.2.7 Theorem". All theorem types (theorem, proposition, etc.) and equations share the

same counter. Third-level numbers are reset in each section. Numbering is within sections, e.g., theorems in a section with number 3.2 are numbered 3.2.1, 3.2.2, and so on. To avoid confusion, numbering of subsections and below is disabled.

This numbering scheme makes it very comfortable to find a particular theorem or equation, given its number. It is also suited for numbering each paragraph.

theorems=numberslast The number comes second, e.g., "Theorem 3.2.7". All theorem types (theorem, proposition, etc.) share the same counter, but equations have their own counter. Numbering is within chapters.

You can also load a theorem system of your choice, e.g., ntheorem.

theoremswithin The environment in which theorems are numbered. If using theorems=numbersfirst, then the default is section when using the book class and subsection when using the article class. If theorems=numberslast, then the default is chapter when using the book class and section when using the article class. When there are no numbered sections in a book, it should be set to chapter in order to avoid redundant "0" components in theorem designators. When there are no numbered subsections in an article, it should be set to section for the same reason. The special setting theoremswithin=document will have theorems numbered consecutively 1, 2, 3, etc. across the entire document.

A.5 Misc Settings

acronymOptions Options to be passed to the acronym package. The default is smaller, nohyperlinks, print

babelOptions Options to pass to the babel package. Default is ngerman, english, if also language=english is given (which is the default for the language option). If language=german is given, the default is english, ngerman. The language can be switched inside the document using the \selectlanguage command or the otherlanguage environment.

inputencOptions The input encoding to choose. Default is utf8.

language Controls defaults for babelOptions, variorefOptions, refname, and dottednumbers. If legacytexlive is given, also controls defauls for babelbib and bibliographystyle. Possible values are language=english (the default) and language=german.

A.6 Missing an Option?

legacytexlive A Boolean option controlling whether certain features not available in older TEX Live versions shall be avoided. Default is false, which assumes TEX Live version 2011 or newer. Setting to true has the following effects: default to natbib=true and biblatex=false. If language=german, then also load the babalpha package and make bibliographystyle=babalpha default.

variorefOptions Options to pass to the varioref package. Default are no options if language=english. If language=german then the default is ngerman.

A.6 Missing an Option?

In case you would like to configure the style in a way not yet supported, please contact the implementation maintainer (Section 14). Do not use modified versions of the style file, unless you know exactly what you are doing.

A.7 Examples

```
A book in Latin Modern font:

\documentclass[10pt]{book}
\usepackage[font=LatinModern]{ifiseries}
\begin{document}
\end{document}

An article on A4 paper:
\documentclass[11pt,twoside]{article}
\usepackage[paper=a4paper,largepaper=true]{ifiseries}
\begin{document}
\end{document}
```

B Using the Style for a Student's Thesis

With the many options explained above, the style can be adapted to other use cases, e.g., for a student's thesis. A macro \studtitlepage for a title page is provided as well as a macro \eidesstatt for the "Eidesstattliche Erklärung". The macro \studtitlepage (which internally makes a call to \gentitlepage) takes the following 7 arguments:

- 1. Title
- 2. Subtitle
- 3. Name of candidate
- 4. Type of thesis in German, e.g., "Bachelor-Arbeit"
- 5. Year of submission
- 6. Research group, may also be in German
- 7. Name of supervisor

Here is an example:

```
\studtitlepage%
{My Fake Bachelor's Thesis \\[.1em]
With a Long Title \\[.1em]
Over Three Lines}%
{Just for Fun}%
{John Q.~Pregraduate}%
{Bachelor-Arbeit}%
{2011}%
{Imagin\"are Arbeitsgruppe}%
{John Q.~Supervisor}
```

Instead of \studtitlepage, you can use \makestudtitlepage after using \renewcommand on the following commands: \titlepagetitle, \titlepagesubtitle, \titlepageauthor, \studtitlepagetype (defaults to "Bachelor-Arbeit"), \studtitlepageyear, \studtitlepagegroup, \studtitlepagesupervisor.

C News

2015-02-04

Make \frenchspacing the default, finally.

2015-01-27

Remove bindingoffset option, introduce bindingcorrection instead. The new option has no influence on the width of the text block and thus can be used for last-minute adjustments.

2012-03-11

For the bibliography, biblatex is now the default instead of bibtex. To get bibtex back, use biblatex=false,natbib=true. In any case, the \tocbibliography does not take an argument anymore. Instead, the bibliography database can (for bibtex it must) be specified using the bibresource option, e.g., bibresource=my/bib/file.

biblatex is almost a drop-in replacement for bibtex with many interesting features. In particular, it allows multilingual bibliographies easily – just add appropriate hyphenation fields to your BibTeX database entries. Please consult the biblatex documentation to learn more about the exciting new possibilities.

Unfortunately, biblatex is not available on the ancient TEX Live 2009, which still ships with Ubuntu at the time of writing. It is recommended to install a recent TEX Live (at least 2011) manually. Compatibility with older versions is achieved via legacytexlive=true, but this of course will disable biblatex.

References

[Bri08] Robert Bringhurst. The Elements of Typographic Style. Hartley & Marks, 2008. ISBN: 978-0-88179-206-5.