

The aaltoseries class

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julkaisut@aalto.fi

Jussi Pekonen Department of Signal Processing and Acoustics Aalto University School of Electrical Engineering

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Abstract The aaltoseries class provides the LATEX definitions to be used in publications published in the Aalto University publication series. The layout recommendations for the Aalto University publication series are implemented by the class. In addition, the class provides a selection of commands and environments for an easy-to-use access of the features of different publication types.

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A quick reference of the package use is typed in the margin of this document. Notation used in this documentation LATEX code fragments given in this document use the typewriter (i.e. monospace) font. The color of a code fragment indicates the type of the code with the Aalto University gray corresponding to commands and variable naming conventions and the Aalto University (darker) green color corresponding to command or package variables and options.



Preface

Aalto University¹ has five publication series for university's own publications. Each of these series are dedicated for a certain topic. Three publication series are named after the large research and teaching topics of Aalto University and they are Business + Economy, Art + Design + Architecture, and Science + Technology. In addition, there is a series Crossover for multidisciplinary publications and a series Doctoral Dissertations, as its name suggests, for doctoral dissertations from all disciplines.

In addition, in every publication series (except Dissertations) there are four **levels** each of which correspond to a certain type of publication. One of the publication types is **compiled works** which is used for article and essay collections, conference proceedings, etc. Another type is **report** that is dedicated for research reports, annual reports, etc. The two remaining types are dedicated for **study and teaching materials** and for **working papers**.

The aaltoseries class takes into account the different demands of the different publication types and therefore of the abovementioned publication types can be typeset using it. In addition, the class can be used to typeset an individual article of a compiled work and abstracts that contain special characters (like math) and/or formatting for the abovementioned publication types. The aaltoseries class implements the document layout guidelines of the Aalto University publication series and it provides commands and environments for an easy-to-use access of the features of different publication types.

The remainder of this document is organized as follows. In Section 1, a quick introduction to the use of the aaltoseries class is provided. Instructions on how to read the rest of documentation are also given. Section 2 presents the available class options that are used to control the available features of the class. The features that are common for all publication types one can produce with the aaltoseries class are presented in Section 3. Some standard commands that have been redefined to produce slightly different result than usually are also discussed. In Section 4, the features available only in a certain publication type (i.e. the publication series level) are introduced. The interfaces the aaltoseries provides to these features are also presented. Instructions to the use of the code examples accompanying this documentation, a troubleshooting guide, comments on the applicable math fonts that can be used with this class, and the customization interfaces to the features of the aaltoseries class are given in Appendix.

Installation

Put the aaltoseries class, i.e. the file named as aaltoseries.cls, to a place where LATEX can find it. This means that you need to put the file either in the texmf tree (global installation) or in the folder that contains your source files (local installation only to those documents in that folder).

Note that the aaltoseries class uses the aaltologo package. Therefore, if

¹Webpage: http://www.aalto.fi/



you don't have the aaltologo package installed, you need to install that package too. The aaltologo package is available at the Aalto-IATEX wiki, https://wiki.aalto.fi/display/aaltolatex/.

Publication licenses

The aaltoseries class The aaltoseries class, the file aaltoseries.cls, has been published under the Creative Commons Attribution No-Derivative license². This means that you can use the class freely in your own documents but it also means that you cannot base your own Aalto University publication series class/package upon this class. However, you can use this class as an example in designing your own classes/packages that implement the publication series recommendations of another university or company.

The aaltoseries class documentation This document, the documentation for the aaltoseries class, has been published under the Creative Commons Attribution license³. This means that you *can* freely write your own documentation for the aaltoseries class based on this document as long as you give credit for the original documentation by citing it appropriately.

Changes

Version 1.1 Several bug fixes. Option to typeset abstracts that contain special characters (like math) and/or formatting. Option to suppress the page numbers from the publication information pages in article dissertations.

Version 1.1.1 Several bug fixes. Incompatibility with the hyperref package is fixed. New class options nopagenumbers and abstracts for special formatting, see Sections 2, 3.1.2, and 3.1.3 for further details.

Version 1.1.2 Bug fixes in commands \widefigureshift, \adderrata, and \addcontribution.

Version 1.0 Initial publication of the class. Offers the series layout definitions, the preface environment, and some specialized commands for the article collection, dissertation, and report series.

Versions 0.X Progress towards Version 1.0. Different features of Version 1.0 were introduced cumulatively.

Development plan The features of the current version have been carefully designed and the interfaces to the available features has been designed to be as user-friendly as possible. However, if you would like to have a feature that is currently not implemented or you find the interface

³Available online at http://creativecommons.org/licenses/by/1.0/



²Available online at http://creativecommons.org/licenses/by-nd/1.0/

to a certain feature inaccessible, contact the class maintainer. Your feature or interface proposal(s) may be implemented in the future versions of the aaltoseries class.



1 Quick introduction to the use of the class

Take in use:
\documentclass%
[<options>]%
{aaltoseries}

The aaltoseries class is taken into use using the standard LATEX document class definition command \documentclass. That is, you need to start your document preamble with

```
% Set the document class and its options
\documentclass[<class options>]{aaltoseries}
% Set required packages for input encoding etc.
\usepackage[<package options>]{<packages>}
% However, do not define font encoding nor any fonts!
```

so that you define the publication type by giving an appropriate class option. However, note that the aaltoseries class can be used also without class options. In that case the publication type is reverted to the default type. In addition, you can set the drafting mode on by giving an appropriate class option.

Note that the aaltoseries class uses the aaltologo package that implements the visual guidelines of Aalto University. This package is not a standard LATEX package, so you need to get it from the Aalto-LATEX wiki, https://wiki.aalto.fi/display/aaltolatex/. Since the aaltologo package is included automatically by the aaltoseries class, you don't need to include by yourself. The aaltologo package set the document fonts and font encoding automatically. Note that this means that you are *not allowed* to define any fonts or the font encoding in the preamble⁴.

If you are writing in Finnish or Swedish (or in any other language) or if you are writing a multilingual publication, it is recommended that you use the babel package with an appropriate language option (finnish and swedish, respectively). With the use of the babel package some automatic texts (like the header for the table of contents) are automatically translated. Similarly, many automatic texts the aaltoseries class uses will also be translated. Note that if you give multiple language options to the babel package, the language given last will be set as the document language.

The content of the publication is written between \begin{document} and \end{document} using the LATEX commands and environments as usual, that is, by using the standard commands and environments, the commands and environments provided by the packages you have included, and the commands and environments the aaltoseries class provides.

However, you should *not* use margin notes. Since the margins of the document produced with the aaltoseries class are quite narrow, there simply is not enough space for margin notes. For this reason, the standard command used to typeset margin notes have been redefined. Therefore, the commands provided by packages that extend the capabilities of typesetting margin notes may not produce the desired result, and hence they are *not* recommended to be included.

The aaltoseries class *requires* the aaltologo package

Not writing in English (only)? \usepackage% [<language>]% {babel}



 $^{^{-4}}$ However, you are allowed to change the math font, see Appendix C for further discussion on this.

1.1 How to proceed in reading this document

First of all, read Section 2 for the options that you can use in selecting the type of your publication. Then read Section 3 to find out the features that are available or unavailable in your selected publication type.

If you are writing study/teaching material or a working paper, then you can start writing your publication. Otherwise you should read Section 4. If you are writing (or editing) a compiled work (for example, an article collection, essay collection, seminar proceedings, or conference proceedings), consult Section 4.1 for the features specific to the article collection mode of the class. If you are writing an individual article for a compiled work, see Section 4.2 for the available features. If you are writing a report (a research report, annual report, or a technical report), consult Section 4.3 that introduces the features available for reports. If you are writing a doctoral dissertation, Section 4.4 presents the available features for dissertations.

If you want to perform some customization of the publication type specific features, consults Appendix D for the customization reference guide.

2 Class options

The class accepts two kinds of options. The publication type is selected by giving the of the type name as a class option. The available publication type selection options are presented in Section 2.1. In addition to the type selection options, there are a few general options that can be used in (almost) all publication types, and they are discussed in Section 2.2. Section 2.2 also presents two dissertation-specific options. Multiple options can be given, separated by commas.

2.1 Publication type selection options

As mentioned above, the publication type is selected by giving the type name as a class option. The available type selection options are Select the publication type

- articlecollection for compiled works,
- dissertation for doctoral dissertations,
- report for reports,
- teachingmaterial for teaching and study materials, and
- workingpaper for working papers.

If the publication type option is not given, the report option is used as the default publication type option.

In addition, since the aaltoseries class can be used to typeset individual articles for a compiled work, there is also an option

• article



that sets the class to provide the features specific to individual articles. The aaltoseries class also provides an option

• abstracts

with which abstract that contain special characters (like math) and/or formatting can be typeset. For this special feature, see Section 3.1.2.

Note that if multiple publication types are given, the type given as the last option is taken into use.

2.2 General options

The aaltoseries class accepts a few general options that do not affect the selected publication type. These general options are

- draft,
- draft*,
- final, and
- nochapters.

However, these general options may affect the end result of the compilation depending on the publication type, as discussed next.

The option draft sets the draft mode on in the aaltoseries class and in *all* included packages that have a draft mode. However, it *does not* affect the layout or any other typographic setting of the manuscript. This option has three effects on the aaltoseries class. First, it automatically includes the manuscript information on the first page. Second, it enables the author to include an abstract for the draft version of the manuscript, see Section 3.4 for further information. Third, it affects the inclusion of PDF articles in the *article collection* and *dissertation* modes. For this special behavior, consult Sections 4.1 and 4.4.

The option draft* (note the asterisk) sets the draft mode on *only* in the aaltoseries class. The other included packages are typically included with their "final" mode on. However, if an included package accepts an option draft*, this option is also passed to that package.

The class option final is the negation of draft and draft*. If multiple drafting options are given, the mode defined by the option given as the last is selected.

The option nochapters affect how the sections of the publication are numbered. The aaltoseries class enables one to use chapters (see Section 3.2 for further information) which causes sections (and subsections), figures, tables, and equations to have the chapter number also in their numbering. If you are writing a very short publication that has only a few sections and you don't want to use chapters, you can drop the chapter number from the section numbering by giving the nochapters option to the class.

Typically chapters are used in these kinds of publications. However, in the *article collection* mode (obtained with the articlecollection class option) and in the *individual article mode* (the article class option) the

Drafting

Numbering of sections

effects of the nochapters option are taken into use automatically. This is due to the fact that the titles of the individual articles are typeset using the "starred" (unnumbered) \chapter command. In addition, in the *dissertation* mode (obtained with the dissertation class option) chapters are always used, and hence the nochapters do not have any effects.

In addition, the aaltoseries class accepts an option

• nocontribution

that suppresses the Author's Contribution list that would automatically printed after the List of Publications in article dissertations. More information about this class option is given in Section 4.4. In other publication types this option has no effect.

Furthermore, the aaltoseries class accepts an option

• nopagenumbers

that suppresses the page numbers from the publication information pages in article dissertations. In other publication types this option has no effect. Suppressing Author's Contribution listing in article dissertations

Suppressing the page numbers from the publication information pages in article dissertations

3 Features common to all publication types

In this section, the features that are common to all publication types are discussed. In Section 3.1, the use of some standard LATEX commands and environments are discussed. Section 3.2 presents the available sectioning commands. In Section 3.3, the preface environment is introduced, and Section 3.4 presents the draft mode features of the class.

3.1 On the use of standard LATEX commands and environments

All standard LATEX commands and environments, like \footnote, \LaTeX, and itemize, are available in the aultoseries class. However, the use of some of them *may not be reasonable* in some publication types. Therefore, it is the duty of the author (or the editor) to make sure that the publication is produced using reasonable commands and environments.

3.1.1 Standard commands that have been redefined

There are two commands that have been redefined to have a slighly different end result than normally. The first is the \maketitle command that is used to print the document information. For the *most* publication types this command has been redefined to do nothing because the information pages are typeset using the Aalto publication platform⁵. However, in the *article collection* mode this command is used to print the information of individual articles. Therefore, it is not recommend to be used in the beginning of the document in the article collection mode. For this special behavior in the article collection mode, consult Section 4.1. Similarly, in

\maketitle

⁵See https://inside.aalto.fi/display/AboutAalto/Aalto+publication+series for further information (requires Aalto login).



\author \title \date

\marginpar

abstract

The abstract environment in individual articles

Abstracts containing special characters and/or formatting the *individual article* mode the \maketitle command typesets the information of the article, see Section 4.2.

It should also be noted that commands \author, \title, and \date are typically meaningful only with the \maketitle command. However, in the aaltoseries class, the \author and \title commands are meaningful for drafting of the publication manuscript (see Section 3.4). Therefore, it is recommended that these commands are used in the document preamble. By doing so the requirement of using the \author command before the preface environment (presented in Section 3.3) is also fulfilled. The \date command is meaningful only in the preface environment, and hence it should also be used in the document preamble. If it is not invoked, the date field that is printed by the preface environment is reverted to value given by \today.

In addition to the drafting of the publication manuscript, the \author and \title commands can be used in the *article collection* and the *individual article* modes to modify the information of individual articles, see Sections 4.1 and 4.2 for further information.

The second redefined command is the \marginpar command that is used to typeset its argument in the (outer) margin of the document (see left). However, as mentioned in Section 1, the margins in the Aalto publication series guidelines that the aaltoseries class implements are quite narrow, so there is not enough space for margin notes. Therefore, the \marginpar command has been redefined to produce a *footnote* of its argument, i.e. it is equal to \footnote{<argument>}. Note that the \marginpar command also accepts an optional argument that is typeset in the left margin whereas the second (the "normal") argument is typeset in the right margin. In this form of the command both arguments are typeset as individual footnotes by the aaltoseries class.

3.1.2 The abstract environment

The use of the abstract environment is a bifolded issues. In all publication types the abstract(s) that appear in the beginning of the publication are typeset using the Aalto publication platform. Therefore, it is *not* recommended that the abstract environment is used in the beginning of the document.

However, the abstract environment can be used inside the document. Typically this is not reasonable and hence not recommended, but for example the abstract(s) of an individual article in a compiled work can be typeset using the abstract environment. In fact, it is recommended that the abstracts of the individual articles are typeset using the abstract environment.

Note, however, that the publication platform does not support special characters, like mathematical and chemical symbols, or special formatting, like bolding. To have such abstracts in your publication, the publication platform allows you to upload the abstract as a PDF document. The aaltoseries class allows the user to generate these PDF documents when you give the class option abstracts. However, in that case the document *cannot* contain other material because the PDF abstracts have a special page size.



When you need to typeset these special abstracts, it is *required* that you use the abstract environment. If you need to typeset the abstract using a language that is not the document language, you can either select the language before the abstract contents using command \selectlanguage or by giving the language as an optional argument for the abstract environment in square brackets. In other words, these abstracts are typeset either

```
\begin{abstract}
\selectlanguage{<language>}% Add a comment after the command
Abstract text...
\end{abstract}

or
\begin{abstract}[<language>]
Abstract text...
\end{abstract}
```

Note that you should add a comment mark (that is, %) immediately after the \selectlanguage command to suppress possible spaces that would be typeset before the abstract text. The language change given for the abstract environment is temporary, i.e. it applies only for the abstract.

3.1.3 Page numbering

Since the first pages (information and the abstracts) are typeset in the Aalto publication platform, the publication platform adds a few pages to the resulting final publication. If you want to take these pages into account in the page numbering, you need to set the page number counter by yourself using the \setcounter{page}{<value>} command *immediately* after \begin{document}.

The number of pages to be added depends on how many pages are typeset with the publication platform. Therefore it is the duty of the author/editor to ensure that the page number is set correctly. Furthermore, remember to compile the document twice to get the page number references (for example in the entries of Table of Contents) right.

If you are writing an article dissertation and you want to suppress the page numbers from the publication information pages, you need to give the class option nopagenumbers. Normally the publication information pages are paginated.

3.1.4 Bibliography and citation style

The aaltoseries class leaves the choice of the citation style to the author. In addition, it does not prefer the thebibliography environment over the \bibliography command. Both of these approaches begin an unnumbered chapter⁶ with a header **Bibliography**. If the document language is changed to Finnish or Swedish using the babel package, the bibliography header is automatically translated⁷. If you want to change the default header, this can be done by calling \renewcommand{\bibname} {<header>}.

Bibliography and citation style

Page numbers

⁷In Finnish **Kirjallisuutta**, in Swedish **Litteraturförteckning**. Other languages are supported if the babel package, or the document author, provides the translation.



⁶If the nochapters class option is used, they start an unnumbered section.

quote quotation verse

3.1.5 Quotes, quotations, and verses

You can use the quote, quotation, and verse environments to typeset (short, single-paragraph) quotes, (long, multi-paragraph) quotations, and verses, respectively, as usually is done in LATEX documents. However, note that it is recommended that the text following these environments is not indented. Therefore, you should either use command \noindent before the paragraph following the environment or you start writing the paragraph immediately from the next line following the \end{<environment>} command. The latter can also be performed by putting the comment mark (that is, %) to the empty lines between the environment end and the beginning of the paragraph.

itemize
enumerate
description

3.1.6 *Lists*

Similarly, the paragraph following a list, i.e. itemize, enumerate, and description, should not be indented. Therefore, the comments concerning the quotes and quotations apply also for lists. In addition, it is recommended that if the list contains only items whose contents do not span over multiple lines, the items should follow each other without any additional space between the items. By default, the altoseries class automatically assumes that the item contents span over multiple line and hence it puts an empty line between list items. This assumption is on in all list depths (a list within a list). If your list contains *only* single-line items, you should use command \setlength{\intemsep}{omm} after the list beginning and before the first item. However, if your list contains both single-line and multi-line items, this \itemsep length redefinition should not be done. Similarly, if your list contains nested lists of which some items span over multiple lines, the \itemsep length should not be redefined.

The single-line lists can also be typeset using environments singleitems and singleenums. These environments are simply wrapper environments that start (and close) the itemize or enumerate environment, respectively, and that set the \itemsep length to zero.

When you want to continue a numbered list (enumerate) after a text paragraph, you shouldn't use a special package to do that. Instead, you should give a command \setcounter{<cntr>}{<value>}, where <cntr> is the enumerate list counter, i.e.

- enumi for the first level enumerate lists,
- enumii for the second level enumerate lists,
- enumiii for the third level enumerate lists, or
- enumiv for the fourth level enumerate lists,

and <value> is the value of the *last item entry* in the previous list that is continued, after the \begin{enumerate} (or \begin{singleenum}) line and before the first \item of the list.

If you want to change the formatting of the "numbers" in the numbered list (enumerate), you should redefine commands

• \labelenumi for the first level enumerate lists,



- \labelenumii for the second level enumerate lists,
- \labelenumiii for the third level enumerate lists, and
- \labelenumiv for the fourth level enumerate lists

using \renewcommand command. For example, the first level numbering is changed to capital alphabets using \renewcommand{\labelenumi}{\Alph{enumi}} Similarly, if you want to change the formatting of the bullets in the unnumbered list, you should redefine commands

- \labelitemi for the first level itemize lists,
- \labelitemii for the second level itemize lists,
- \labelitemiii for the third level itemize lists, and
- \labelitemiv for the fourth level itemize lists.

3.1.7 Floats: Figures, tables, etc.

Figures and tables can be typeset as is normally done in LATEX. However, the Aalto publication series guidelines allow one to extend the figures to inner margin so that the distance from the figure to the inner side of the paper is equal to the outer margin. To do so, the figure float contents need to shifted to the left in odd pages (but not on even pages) and the figure width needs to be specified to be overwide. The aaltoseries class provides a command for the required shift, and the command checks whether the page number is odd on the page where the figure is put and shifts the figure if needed. In addition, the aaltoseries class offers a length for the width of the oversized figure.

The shifting command is \widefigureshift[<scale>] where the optional argument is a scaling factor of the shift. The default value of the scaling factor is one. If the scaling factor is negative, the command does not perform the shift, and if the scaling factor is larger than one, it is set to one. This command should be given immediately before the figure inclusion command (which is typically the \includegraphics command) or immediately before the environment (i.e. before \begin{<environment>}) that you use to draw the figure (e.g. tikzpicture). Note that this command *is required* to be given if the figure is desired to be oversized.

The width of the oversized figure is \widefigurewidth. Note that this length depends on the scaling factor given to the \widefigurehift command. The \widefigurewidth length is given as the width argument for the figure inclusion command or for the figure drawing environment (if supported by the environment).

Similar to quotes, quotations, verses, and lists, if the float is put in the middle of the page (i.e. there are text paragraphs above and below the float), the paragraph following the float is not recommended to be indented (see Sections 3.1.5 and 3.1.6 above). Note that this recommendation applies also in cases where the float is in the top of the page and it is followed by a newly started paragraph.

Floats

\widefigureshift

\widefigurewidth



3.2 Sectioning commands

Sectioning commands

The aaltoseries class is based on the standard report class. Therefore, the available commands for sectioning the publication are \part, \chapter, \section, \subsection, \paragraph, and \subparagraph, and their "starred" (unnumbered) versions \part*, \chapter*, \section*, \subsection*, \subsection*, \paragraph*, and \subparagraph*.

However, note that the normal sectioning commands are numbered until the second level⁸ (i.e. \subsection). This is set according to the typographic guidelines of the Aalto publication series, and therefore it is recommended that the section number depth (counter secnumdepth) is *not* modified.

Furthermore, you should note that in some publication types some of the sectioning commands have a special meaning. Therefore it is recommended that you read first the parts of this documentation that deal with the publication type you are writing to check out the special features of the sectioning commands related to your publication.

3.3 The preface environment

The aaltoseries class provides an environment for typesetting the preface of the publication, and this environment is, surprisingly, preface. The preface environment accepts one optional argument that is given in square brackets, i.e. the environment begins \begin{preface}[<option>]. The optional argument is used to annotate the location where the publication is written (since prefaces typically end with this information). If the optional argument is not given, the location is reverted to the default location **Helsinki**, which is the *official* hometown of Aalto University.

The preface environment starts an unnumbered chapter to which it typesets the contents of the environment. The header of the chapter the preface command creates is by default **Preface**. However, if the document language is changed to Finnish or Swedish using the babel package, the preface header is automatically translated⁹. Similarly, if the document language is changed to Swedish using the babel package, the default location is automatically translated to **Helsingfors**, the Swedish name of **Helsinki**.

After the contents of the environment, the preface environment automatically typesets the location (as discussed above) and the argument given to the \date command (or the day of compilation, if the \date command is not used), separated by a comma. Below the location and the date the preface environment typesets the author's name, if the \author command has been used before the environment.

For example, the preface environment call

\author{John Doe}

\begin{preface}[Ouagadougou, Burkina Faso]

⁹In Finnish **Esipuhe**, in Swedish **Förord**. Other languages are supported if the babel package, or the document author, provides the translation.



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preface

⁸In terms of LATEX sectioning levels, i.e. the value of the secnumdepth counter.

```
Preface text
%...
\end{preface}
```

results in

Ouagadougou, Burkina Faso, November 26, 2011,

John Doe

Note that the date was not set in the code, and therefore it reverted to the day of the compilation of this example (the day when this documentation was compiled). If the optional location is omitted, e.g.

```
\author{Maija Meikäläinen}
\date{June 1, 2050} % The date is set now
\begin{preface}
Preface text
%...
\end{preface}
```

would result the following preface ending:

Helsinki, June 1, 2050,

Maija Meikäläinen

3.4 Drafting: manuscript information and the \draftabstract command

If the draft mode option draft or draft* is given to the aaltoseries class, the class automatically inserts the document title and author and the current date on the first page together with a note that the document is a draft. The contents of the document are typeset from the second page on. With this feature, the publication manuscript compiled with the draft mode on always carries the information of what document it is. Since this feature typesets the document title and author, they are recommended to be defined in the document preamble. In the final mode the document information is not typeset.

Since the abstract(s) appearing in the beginning of the publication are normally typeset using the Aalto publication platform (see Section 3.1.2), the abstract environment is not recommended to be used in the beginning of the document. However, for drafting purposes the aaltoseries class provides a command that typesets its argument only when the draft mode is on. This command is \draftabstract. The \draftabstract command can also take an optional argument that is the language of the abstract. If the babel package is included, the abstract header (i.e. **Abstract**) is

Document information in the draft mode

\draftabstract



Aalto University

translated¹⁰ and the hyphenation of the abstract text is changed to follow the guidelines of the given language. If the optional argument is not given, the document language is used. The language change given for the \draftabstract command is temporary, i.e. it applies only for the abstract.

In the final mode the \draftabstract command does not typeset its contents, which means that you don't need to remove the commands from the final version of the manuscript.

4 Publication type specific features

In this section, the features that are specific only to a certain publication type are introduced. If you are writing (or editing) a compiled work (for example, an article collection, essay collection, seminar proceedings, or conference proceedings), consult Section 4.1 for the features specific to the article collection mode of the class. If you are writing an individual article for a compiled work, see Section 4.2 for the available features. If you are writing a report (a research report, annual report, or a technical report), Section 4.3 introduces the features available for reports. If you are writing a doctoral dissertation, Section 4.4 presents the available features for dissertations.

If you want to perform some customization of the publication type specific features, consults Appendix D for the reference guide.

4.1 Article collections

\tableofcontents

\maketitle

\author \title

In the other use of the aaltoseries class, the table of contents (obtained with the \tableofcontents command) contains the headers of all numbered sections. However, in the article collection mode, the table of contents contains only the two highest levels of sections (i.e. part and chapter). Since the titles of individual articles are of the chapter level, they appear automatically in the table of contents. In addition to the titles of the articles, the table of contents contains also the authors of the articles below the article title.

There are two ways to include individual articles to an article collection. In the first approach, the contents of the individual articles are typeset in LATEX, and the article collection mode features related to that alternative are discussed in Section 4.1.1. The other approach includes readily typeset articles in PDF format to the collection. The easy to use interface the aaltoseries class provides is presented in Section 4.1.2.

4.1.1 Writing the individual articles directly to the document

As discussed in Section 3.1, the article collection mode of the aaltoseries class enables you to use the \maketitle command to typeset the information of individual articles, essays, etc. The authors and the titles of the individual articles are set using the \author and \title commands.

¹⁰In Finnish **Tiivistelmä**, in Swedish **Sammanfattning**. Other languages are supported if the babel package, or the document author, provides the translation.



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In addition, the author's affiliation to the article information. If an article has more than one author and their affiliations are different, the authoraffiliation pairs can be distinguished using the \aff command. Note that the \title, \author, and \affiliation command should be used before the \maketitle command to get the article information correct.

\affiliation

\aff

If you want to give the article a label with which you can refer to it in the text, you need to give as an optional argument to the \maketitle command, i.e. \maketitle[<label>]. Further information on referring to the articles in a compiled work is given in Section 4.1.3.

All authors are written into the argument of the \author command and the distinction is done by inserting the \aff command, which typesets its argument in superscript, after the author's names. All affiliations are written into the argument of the \affiliation command with the \aff commands preceding the distinct affiliations. In order to avoid confusion, the argument given to the \aff command that is associated to a certain pair (or pairs) should be the same both in the \author and \affiliation commands.

However, it should be noted that in the article collection mode the aaltoseries class puts automatically the author(s) and the title of the individual articles into the running header. Therefore, if the \aff command is used in the argument of the \author command, the affiliation markers are also typeset in the running header. In order to avoid this, the affiliation markers should be removed by calling the \author command with an optional argument that does not use the \aff command, i.e. \author[Author list without \aff commands] {Author list with \aff commands}. In addition, with the optional argument the affiliation markers are removed from the author list appearing in the table of contents (see above).

\author

On the other hand, the running header can overflow if the combination of the author list and the title is too wide. In that case, the title can be shortened by calling the \title command with an optional argument, i.e. \title[Short title] {Long title that would overflow}. Similarly, the author list appearing in the running header can be shortened with the optional argument of the \author command as described above. However, it should be noted that the title of the article appearing in the table of contents is the long form.

\title

Obviously, the article contents can be contained in a separate .tex file that is included to the main document (the collection) using the file input command \input{<filename>} where the argument is the path to the .tex file. However, in that case make sure that either the included file contains the necessary commands or that you invoke them before the inclusion command in the main document.

\tableofcontents

The use of the \tableofcontents command is *discouraged* in individual articles as it does not produce the desired outcome. This also means that if the article contents are in a separate .tex file, the file should not contain the \tableofcontents command. However, if the table of contents of individual articles are desired to be used, it can be generated with the help of

 $^{^{11}}$ As a rule of thumb, use the last names if there are less than three authors. If there are three or more authors, use the last name of the first author followed by *et al*.



the titletoc package that enables you to create partial table of contents¹². The use of this feature is quite advanced, and therefore you should use it only if you know what you are doing.

4.1.2 Including PDF articles into the document

If the articles that you are including in the collection are readily available in PDF format, the aaltoseries provides you an easy to use interface to include articles correctly. The command the class provides is

\addpdfarticle

```
\addpdfarticle[<pdfpages_options>]%
    {<filename>}{<label>}%
    {Full Title}{Full Author (List)}%
    {Short Title}{Short Author (List)}
```

where

<pdfpages_options> (optional) provides optional arguments for the actual PDF inclusion command (see below),

<filename> is the name of the PDF file that you are including,

is a label with which you can refer to the publication (see Section 4.1.3),

Full Title is, as the name suggests, the *full* title of the article,

Full Author (List) is the *full* author (list) of the article without any affiliation markings,

Short Title is the short title that appears in the running header, and

Short Author (List) is the short author (list), without any affiliation markings, that appears in the running header.

If the short title and the short author (list) arguments are empty¹³, they are reverted to the corresponding full version. The full title and the full author (list) are included to the table of contents automatically.

Note that the \addpdfarticle command automatically includes *all* pages of the PDF file and this *cannot be modified*. If you want to skip some of the pages or to include only a part of the PDF file, you need to do these selections externally, e.g. by printing the desired pages to another PDF file with a PDF reader application. Furthermore, the \addpdfarticle command fits the PDF to the A4 paper size that is used by the aaltoseries class. However, if you want to do minor processing for the PDF file before it is included, give the processing commands in the optional argument ¹⁴. Note, however, that these processing commands are applied to *all* pages of the PDF file.

¹⁴Consult the documentation of the pdfpages package (available online at http://www.ctan.org/tex-archive/macros/latex/contrib/pdfpages/pdfpages.pdf) for detailed listing of available options.



¹²Consult the documentation of the titlesec and titletoc packages, available online at http://www.ctan.org/tex-archive/macros/latex/contrib/titlesec/titlesec.pdf.

¹³They, however, are *required* arguments in the command.

Moreover, it should be noted that the \addpdfarticle command typesets the page number and the running header on top of the included PDF file. Therefore, the author(s) of the individual articles should be advised to keep both the top and bottom margins large enough¹⁵ to prevent the running header and the page number to be inserted over the content of the article. In addition, the author(s) of individual articles should be advised not to paginate their articles. Otherwise the article pages would contain two page number.

If you are using this command, remember that the document needs to be compiled using the pdfI/TFX compiler. Otherwise, the aaltoseries class casts a warning and the PDF pages won't be included. Moreover, a reminder text will appear on the page where the first page of the PDF file would have been included.

4.1.3 Referring to a specific article

The aaltoseries class provides four different commands that can be used to refer to an article that is included to the document using either method described above. A \refart command takes the label of the article to be referred to as an argument and prints the full title of the article. The short title is printed with a \ra command. If the authors of an article are wanted to be referred to, a \refartauth command prints the short author (list). Note that the short author printout does not contain the affiliation markings, and therefore it is used.

The reference commands that print the title of the article accept also an optional argument with which the reference can further specified to, for instance, a certain page, section, or figure. If the optional argument is given, the specified reference is typeset without additional formatting after the basic form of the reference separated by a comma.

In addition, the articles can be referred to using the standard LATEX reference command \ref. This command will produce exactly the same output as the \refart command. Furthermore, the page number from which the publication begins can be referred to with the standard LATEX command \pageref.

Individual articles 4.2

Writing an individual article for an article collection (or like) using the aaltoseries class is done like writing the article directly to the document. Therefore, the guidelines given in Section 4.1.1 also apply for individual articles.

4.3 Reports

When several authors are writing a report publication and it is required that the authors of the chapters are indicated somehow, the author of a chapter can be included with a \chapterauthor command. The command argument is typeset below the chapter header, and as the argument any

\chapterauthor

¹⁵Absolute minimum measures: top 0.7 cm; bottom 1.6 cm. Suggested (minimum) measures: top 1.2 cm; bottom: 2.3 cm.



\refart

\refartauth

\ref

\pageref

properly formatted LATEX text or code is accepted. That means that if the chapter author affiliation is also wanted to be included, the affiliation information needs to be given and formatted in the \chapterauthor command argument.

4.4 Dissertations

The following features are available in the dissertation mode of the aal-toseries class. However, they are meaningful only to article dissertations. Therefore, if you are writing a monograph dissertation, this section does not provide you any further information. In that case you can start writing the dissertation immediately. If you are writing an article dissertation, i.e. a thesis that consists of an overview and a selection of publications, keep on reading the rest of this section.

4.4.1 Adding publications to the end of an article dissertation

The aaltoseries class provides a set of commands that are used to include publications to the end of an article dissertation. These commands are used to set the publication information, the dissertation author's contribution in that publication, and the publication's errata, and to include the publication PDF file.

The first command is used to set the publication information, and this command *needs to be the first command* when a new publication is added. This command, \addpublication takes eight (8) arguments and an optional argument that is used to specify that the publication is a part of a collection, e.g. conference proceedings, or that it is either accepted or submitted for publication. The full command call is

```
\addpublication[<type>]{Authors}%
    {Publication title}{Publication media}%
    {Detailed information}{Month}{Year}%
    {Copyright owner}{<label>}
```

where

\addpublication

<type>, the optional argument, is used to indicate that the publication is an article in a collection or that it has been accepted or submitted for publication,

Authors is the author list of the publication,

Publication title is the title of the publication,

Publication media is the publication media where the publication has been published (that is, the journal name, the conference proceedings book name, the report series, etc.),

Detailed information is the detailed information of the publication in the publication media (volume and issue, page numbers, conference location, etc., if available),

Month and **Year** are the month and the year when the publication was published,



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Copyright owner is the owner of the publication copyright, and

is a label with which you can refer to the publication (see Section 4.4.3).

The \addpublication command prints the publication information page and puts the needed information available for certain commands (these are presented later in this section).

If the optional argument <type> is conference, the \addpublication command processes the publication to be added as an article that has appeared in a conference proceedings. In that case, the word 'in' will be inserted before the publication media in the publication information. Note that this option also needs to be used for articles that appeared in other collections than conference proceedings.

Conference publications

When accepted is given as the optional argument, the publication to be added is processed as an article that has been accepted for publication. A phrase 'accepted for publication in'¹⁷ will be inserted before the publication media in the publication information. Note that this option can be used for all publications.

Accepted publications

If the optional argument is submitted, the \addpublication command processes the publication to be added as an article that has been submitted for publication and that the paper is under review if and only if the draft mode is set on. In that case, a phrase 'submitted to' will be inserted before the publication media in the publication information. Note that this option can be used for all publications. Moreover, it should be noted that the optional argument submitted can be used only in manuscripts that are submitted for pre-examination. Therefore, if the draft mode is not used, the paper is considered as published.

Submitted publications

When a submitted paper is included, it does not have detailed publication information (journal volume and issue, page numbers, etc.) available. Similarly, this information may not be available for accepted publications. In that case, the **Detailed information** argument can be left blank, which suppresses the printing of this information. The submission or acceptance date can be given in the **Month** argument.

Missing publication information

Note that if the optional argument is omitted or it is not conference, accepted, or submitted, the regular mode of the publication information is used.

The publication information page contains a header **Publication X**, where X is a Roman numeral that corresponds to the publication number, below which the publication information is typeset. Below the publication information, the copyright owner is acknowledged, followed by a note **Reprinted with permission**, if the paper has been published or it is accepted for publication. For submitted publications the copyright information is not printed. If the document language is changed to Finnish or

¹⁸Again, if the babel package is used, this phrase is translated to **lähetetty julkaisuun** (Finnish) and **lämnats till** (Swedish).



 $^{^{16}}$ If the babel package is included and the language is Finnish, this word is **kirjassa**, and if the language is Swedish, it is **i**.

¹⁷This is also translated, if the babel package is used. In Finnish this phrase is hyväksytty julkaistavaksi julkaisussa, and in Swedish it is accepterad för publicering i.

Swedish using the babel package, the automatic texts of the publication information page are automatically translated¹⁹. In addition to the textual content described above, the publication information has a black box in the outer margin to mark the beginning of a publication.

\addcontribution

\adderrata

After the \addpublication command you can give the author's contribution in the given publication with a command \addcontribution{<text>}. The contribution is written in the command argument. In addition, if the current publication contains errors, they are annotated with a command \adderrata{<errors>}, where the errors are given as a properly formatted LATEX text in the command argument. The order in which these two commands are called is irrelevant. However, they need to appear after the corresponding \addpublication command.

Finally, the article PDF is included *after* the abovementioned commands using command

\addpublicationpdf

\addpublicationpdf[<pdf_options>]{filename}

where

<pdf_options> contains the optional arguments for the actual PDF inclusion command (see below) and

filename is the name of the PDF file that you are including.

Since the \addpublicationpdf command uses the pdfpages package internally to include the PDF files, you can give any of the available options that the pdfpages package's command accepts²⁰.

It should be noted that the margins of publication can differ quite much from the margins of the introductory part of the disseration. However, it is not necessary to shift the pages of the PDF publications as long as the inner margin is large enough. In practice, this means that the inner margin should be at least 1.5 centimeters, which is usually the case. If the inner margin is too narrow, the author should use the \includepdf command the pdfpages package provides to include the publication pages separately with appropriate offsets.

4.4.2 Adding the list of publications, author's contribution list, and errata

The abovementioned commands that are used to define the publication information, the author's contribution in the publications, and the possible errata write the corresponding information into auxiliary files. These auxiliary files are processed by two commands that are used to typeset the list of publications, author's contribution list, and errata.

The first command, \listofpublications, processes the auxiliary files \listofpublicationsthat contain the information of the publications and the author's contributions in the publications. Both of these files are typeset in lists that are automatically generated by the \listofpublications command. The list

²⁰Consult the pdfpages package documentation, available online at http://www.ctan.org/tex-archive/macros/latex/contrib/pdfpages/pdfpages.pdf.



v1.1.2, 2011/11/26

¹⁹In Finnish Julkaisu and Julkaistu luvalla, in Swedish Publikation and Publiceras med tillstånd. Other languages are not supported at the moment.

of publications starts an unnumbered chapter with a header List of Publications. After the header there is first an automatic text This thesis consists of an overview and of the following publications which are referred to in the text by their Roman numerals. The automatic text is followed by an ordered list of the publications that are numbered with Roman numerals. Again, if the document language is changed to Finnish or Swedish using the babel package, the automatic texts are automatically translated²¹.

The \listofpublications command automatically generates the author's contribution list that starts an unnumbered chapter with a header **Author's Contribution**²² if the class option nocontribution is not given. In the author's contribution list every publication is listed as a section header with a prefix **Publication X**²³, where X is the Roman numeral that corresponds to the publication number, that is followed by the publication title in double quotes. Below the publication title is given the author's contribution as given for the \addcontribution command.

If the class option nocontribution is given, the author's contribution list is not printed. In this case, it is the duty of the author to clearly indicate the author's contribution, for example, by listing the publications in the end of the introductory part of the thesis according to the author's preference. Typically this is done either in the end of the Introduction chapter or in a separate chapter that follows the Conclusion(s) chapter.

The second command, \errata, processes the auxiliary file that contains the errata information of the publications. Typically this command is invoked just before the publications are included. The \errata command starts an unnumbered chapter with header **Errata**²⁴. In this chapter, the publications that have been given errata are listed with a section header **Publication X**²⁵, where X is the Roman numeral that corresponds to the publication number, followed by the corresponding errata as a (formatted) paragraph.

4.4.3 Referring to the publications

The aaltoseries class provides three commands for referring to the included publications. The first command, $\texttt{citepub}\{\texttt{spublabel}>\}$, typesets a "long form" reference **Publication X**²⁶ where X is the Roman numeral that corresponds to the number of the publication that was given label spublabel>. A "short form" reference \texttt{PX}^{27} is obtained with the second reference command $\texttt{spub}\{\texttt{spublabel}>\}$. The third reference command,

\citepub

\errata

\cpub

²⁷If the document language is changed to Finnish using the babel package, the short form is translated **JX**.



²¹In Finnish Julkaisuluettelo and Tämä väitöskirja koostuu yhteenvedosta ja seuraavista julkaisuista, joihin viitataan tekstissä roomalaisin numeroin., in Swedish Publikationförtekning and Denna doktorsavhandling består av en översikt och i följande publikationer som avses i texten som deras romerska siffror. Other languages are not supported at the moment.

²²The chapter header is automatically translated to Finnish (**Tekijän osuus**) or Swedish (**Författarens bidrag**) if the document language is changed using the babel package. Other languages are not supported at the moment.

²³Translates to Finnish or Swedish if needed.

²⁴The same in all languages.

²⁵Also translated to Finnish and Swedish automatically.

²⁶Again, translates to Finnish and Swedish if needed.

\cp

\cp{<publabel>}, prints only the number of the publication.

Note, however, that these commands do not support multiple references at the moment, i.e. the command could take several arguments separated by commas. Therefore, if multiple publications are desired to be referred to, it needs to typeset as

```
% The prefix needs to be given explicitly
Publications \cp{<label_of_the_first>}--\cp{<label_of_the_last>}
% Prints P<number_of_first>--<number_of_last>
\cpub{<label_of_the_first>}--\cp{<label_of_the_last>}
```

where the labels are selected as desired.

The publication reference commands accept also an optional argument with which the reference can further specified to, for instance, a certain page, section, or figure. If the optional argument is given, the specified reference is typeset without additional formatting after the basic form of the reference separated by a comma. Note, however, that the optional argument may not be reasonable to be used with all reference types.

In addition, the publications can be referred to using the standard LATEX reference command \ref{<publabel>}. This command will produce exactly the same output as the \citepub command. Furthermore, the page number from which the publication begins can be referred to with the standard LATEX command \pageref.

\ref

\pageref

Appendices

A Code examples

The code examples given in the examples folder distributed together with the aaltoseries were saved using the utf-8 file encoding. If your editor with which you type your LATEX code does not support utf-8, change the option for package inputenc according to the encoding your system uses. The names of the example files correspond to the following examples:

articlecollection is an example of a compiled work, includes both directly typeset and PDF articles;

article is an example of an individual article that is written for a compiled work;

dissertation is an example of a doctoral dissertation (an article dissertation);

report is an example of a report;

teachingmaterial is an example of study and teaching material;

workingpaper is an example of a (short) working paper.

You can use these example files as a starting point, i.e. a template, in your writing process. However, note that those example files are bare skeletons and many features you may want to use you need to be set by yourself.

In addition, you find two files, abstracts.tex and specialthings.tex, that exemplify the special features of the aaltoseries class. In the file abstracts.tex, an example of the specially formatted abstracts is given (though the text in them is not formatted in a special way). The file specialthings.tex presented all the special text- and float-specific features of the class. Therefore, you can examine these two files if you want to find examples of the special features of the aaltoseries class.

B Troubleshooting guide

Below are given some errors and warnings that you may face when compiling your document that uses the aaltoseries class. In addition, troubleshooting for cases where the outcome is not the desired is presented.

Before proceeding, try first trashing the .aux file and recompile. If this didn't help, check whether your LaTeX distribution is compatible with the aaltologo package from the Aalto-LaTeX wiki (URL: https://wiki.aalto.fi/display/aaltolatex/Distribution+compatibility). If your system should be compatible, then proceed to the questions.



IMPORTANT NOTE!

For some reason, unknown to the class writer, there may be some clashes with the (pre-2009?) MikTEX distribution (Microsoft Windows). These clashes are typically informed to the user as language-related error messages. It should be noted that the aaltoseries class (and the aaltologo package too) has been written using the guidelines for LATEX class and package writers²⁸, so the problem is most likely related to the distribution itself or to the compiler the distribution offers. Debugging of these clashed is beyond the time and efforts of the aaltoseries class maintainer, so it is more recommendable to first update the LATEX distribution to a newer (that is, the latest) one and then test the class again with the new distribution. If the clash is not removed, you could use an alternative distribution. For example the TEXlive distribution²⁹, with which the aaltoseries class is written and tested by the maintainer, is a cross-platform distribution.

Compilation errors

LaTeX Error: File 'nnnn.sty' not found. Your LATeX distribution does not have package 'nnnn.sty' installed. The aaltoseries class uses and takes advantage of the following packages

- report (class),
- ifthen,
- aaltologo (not a standard package),
- · geometry,
- caption,
- tocbibind,
- ifpdf (in the article collection and dissertation modes),
- pdfpages (in the article collection and dissertation modes) and
- mfirstuc (in the dissertation mode).

In addition, the aaltoseries class takes advantage of the babel package *if* it is included by the user.

In order to get rid of this error, download the standard packages from CTAN and the aaltologo from the Aalto-LATEX wiki³⁰. An easier way is to update (or ask your system administrator to update) your LATEX distribution. However, these packages should be included in the recent distributions, so the first thing to do if you don't have these packages is to update your LATEX distribution.

³⁰URL: https://wiki.aalto.fi/display/aaltolatex/



²⁸The LATEX3 Project, "LATEX 2_{ϵ} for class and package writers", http://www.latex-project.org/guides/clsguide.pdf

²⁹Webpage: http://www.tug.org/texlive/

Package babel Error: You haven't specified a language option. You have included the babel package but you haven't specified the language to be used. Make sure that you have a line

\usepackage[<language options>]{babel}

in your document preamble and with *at least one* language option given to the babel package.

Package babel Error: You haven't loaded the option 'nnnn' yet. You gave the babel package at least one language option, compiled your file, then changed the babel package option so that you have as the last option a language that you didn't give before the compilation, compiled again, and got this error message, right? This is nothing harmful, you just messed up the document language processing the babel package performs. Compile your document once again and you will not get this error message.

! Undefined control sequence. 'commandname' You have either a typo in the command name (see the error message for the incorrect form) or you are using a command that is not available in the publication mode you are currently using. In the first case check the command call while in the latter you need either to change the publication mode or to remove the command from your document.

Compilation warnings

Package lcg Warning: Using an already existing counter rand on input line NN. Ignore. This is due to reinitialization of the random number generator used by the aaltologo package (version < 1.2).

Outcome troubleshooting

I tried to use the \maketitle command to add the document information on the first page of the manuscript but it didn't do anything / it started a chapter! What's wrong in my code? Nothing is wrong. The \maketitle command has been redefined to do nothing in most publication modes of the aaltoseries class. In the article collection and the individual article modes the \maketitle command starts a new "chapter". Consult Sections 3.1, 4.1, and 4.2 for further information.

Why there isn't a way to typeset the information table with the supervisor/opponent/abstract appearing in the beginning of a dissertation (or any other publication) as there previously have been? This information is typeset in the Aalto publication platform³¹, therefore there is no need to do it in the manuscript.

I used the \draftabstract command to typeset the abstract but it is not printed! What't wrong? The argument of the \draftabstract is printed

³¹See https://inside.aalto.fi/display/AboutAalto/Aalto+publication+series for further information (requires Aalto login).



only in the draft mode. You need to give a class option draft or draft* to the class to set the draft mode on.

I modified <a feature> that is allowed to be modified. However, the change wasn't applied when I compiled the document. What's wrong? Note that LATEX writes many things, like the section headers for table of contents, into auxiliary files during the compilation which are then read in the next compilation. Many things that you are allowed to modify are like them, and since the changes in the auxiliary files are applied on the next read, the document needs to be compiled twice to make the changes to happen. Therefore, compile your document yet another time.

I don't like this and that typographic choice the class makes. How can I change them to those I like? Check Appendix D first if the thing that you want change can be modified with an easy to use interface. If the thing is not on that list, you should either deal with the current choices or use another class.

Bugs, coding efficiency, etc.

I found a bug in the code! Normal use of the class has been tested thoroughly and there shouldn't be any bugs. However, if you manage to find one, please contact the class maintainer(s) as soon as possible with a detailed description on the bug and the situation in which it was found out.

Your code is inefficient, you could have more efficient implementation of this and that feature. Thank you for your comment. If you have more efficient realizations, please contact the class maintainer(s) who will take a look at them.

C Setting the math font 32

It should be noted that the aaltologo package does not define the font for mathematical typesetting. All mathematical text is written using the default font of the class (*New Century Schoolbook* in the case of the aaltoseries class) and the special mathematical characters are written using the *Computer Modern* math font if the math font is not redefined. The choice of the math font is left for the user, but there are a couple of things that should be kept in mind before choosing the math font.

It should be noted that many packages that change the math font also change (at least one of) the basis (serif, sans serif, typewriter) font definitions. There are two safe choices, namely fouriernc (included in standard LATEX distributions) and millennial (not included in standard LATEX distributions), that use and that are matched to New Century Schoolbook serif font. These packages can be included without affecting the sans serif and the typewriter fonts.

³²This section is directly copied from the aaltologo package (used by the aaltoseries class for the official Aalto-LATEX fonts) documentation.



D Customization of the class features

There are a few features of the aaltoseries class that can be customized. These features are listed below, and any other feature mentioned in this document should *not* be modified in any way.

Common features

Since the aaltoseries class relies on the standard report class, some automatic texts are inherited from that class. Below is given a list (though incomplete) of these automatic texts.

\abstractname - the header of the abstract

\bibname - the header of the bibliography

\contentsname - the header of the table of contents

\listfigurename - the header of the list of figures

\listtablename - the header of the list of tables

\prefacename - the header of the preface

These can be redefined with the \renewcommand command *after* the preamble, i.e. after \begin{document}.

Article collections and individual articles

The \aff command is allowed to be redefined. By default it typesets its (text) argument in superscript, but you can modify it to use for example a counter.

Dissertations

The other features that can be customized are all related to the dissertation mode of the aaltoseries class. The dissertation mode defines the following automatic texts:

\listofpublicationsname - the header of the list of publications

\lambda listofpublicationspreamble – the automatic note of the dissertation structure, given in the beginning of list of publications

\authorscontributionname - the header of the authors's contribution

\errataname - the header of the errata

\publicationname - the **Publication** prefix that appears in many headers and in the "long form" publication reference

\pubname - the P prefix in the "short form" publication reference

\publicationsname - the header that appears in the table of contents to point to the beginning of the publications



\reprintname - the Reprinted with permission note in the publication information page

which can be redefined with the \renewcommand command *after* the preamble, i.e. after \begin{document}.

In addition to the automatic text customization, the dissertation mode allows the user to customize the citation style of the publications of the article dissertation. By default the publications are typeset using the plain citation style. For the citation style customization the aaltoseries class provides the following commands.

First, the order in which the citation data is typeset can be changed with a command

```
\publicationdataorder{<first>}{<second>}%
    {<third>}{<fourth>}{<fifth>}{<sixth>}
```

where each of the arguments is one of the following:

- author,
- title,
- publication (used for the publication media),
- information (the publication information),
- month, and
- year.

The \publicationdataorder command affects only the order in which the arguments of the \addpublication command are typeset. In other words, the arguments of the \addpublication command need to be given in the order as described in Section 4.4.1.

Since the \publicationdataorder command changes the order of the citation data, the punctuation of the citation may get messed up. To fix this, a command

```
\publicationpunctuation[<in>]{<first>}%
   {<second>}{<third>}{<fourth>}{<fifth>}
```

where the punctuation characters are given as the arguments, can be used. Note that the punctuation characters come inbetween the citation data entries. The optional argument <in> can be used to set the punctuation after the word 'in' that appears in citations to publications from conference proceedings (or collections in general)³³. It should also be noted that the punctuation change command is applied only to the publications whose information is printed after the command. This means that if the punctuation is modified after the \listofpublications command, the publications listing will have the original punctuation.

For formatting the citation data entries, e.g. by changing the font weight to bold, the aaltoseries class provides a command

³³Or after the phrases 'accepted for publication in' and 'submitted to' in the cases of accepted and submitted publications, respectively.



where the arguments are valid LATEX formatting commands like \itshape or \bfseries. The optional argument can be used to set the formatting of the word 'in'. Note that if the word 'in' will appear in a place where it is preceded by a period (.), its first letter should be in uppercase. In such case give a command \Uppercasefirst as the *last* formatting option in the optional argument. Furthermore, it should be noted that the given formatting options are not global, i.e. they do not affect the formatting of the text following the data entry.

The data entries can be enclosed to parentheses or quotes and like with commands

```
\publicationadditionalpreformatting{<first>}%
    {<second>}{<third>}{<fourth>}{<fifth>}{<sixth>}
\publicationadditionalpostformatting{<first>}%
    {<second>}{<third>}{<fourth>}{<fifth>}{<sixth>}
```

that set the given arguments before and after, respectively, of the corresponding citation data entry.

For example, with command calls

a publication information would be printed like

```
John Smith (2011). "Title of the publication", in: Proceedings Book Title, February, pp. 1–14.
```

Note that the quotation mark in the end of the title is before the punctuation because the post-formatting argument is typeset immediately after the corresponding citation data entry. If the punctuation is desired to be within the quotation marks, you should leave the corresponding punctuation argument empty and put the punctuation before the quotation mark in the post-formatting argument.

In addition to the formatting of the publication data, the formatting of the publication titles appearing in the Author's Contribution listing can be modified using a command \contributionformatting. The command takes two arguments, i.e. the command is invoked as

```
\contributionformatting{}{<post>}
```

where the first argument sets the pre- and the second the postformatting of the title.

