Thesis templates of the DoCS programme

The doctoral theses in Computer Science are published in the A series of the Department of Computer Science. The programme has an own LaTeX template for the thesis. The installation and other instructions related to this template package are given in the following sections. The last sections also tell some important things related to the template when you are finalising your doctoral thesis.

1 Installation instructions for the tktla document class

This LaTeX package related to the doctoral theses in Computer Science contains the following files:

- <u>tktla.cls</u> the actual implementation of the document class
- tktla.ps formatted documentation
- <u>tktla.dtx</u>, <u>tktla.ins</u> source files for both the implementation and the documentation
- <u>example.tex</u> and <u>example.pdf</u> meant for theses containing figures in the eps format and to be run with command "latex" and "dvips"
- <u>example2.tex</u> and <u>example2.pdf</u> meant for theses containing figures in the pdf format and to be run with command "pdflatex"
- <u>thesis-papers.tex</u> an example file on how to make the interleafs for an article-based thesis

To use the document class, it is enough to copy the file tktla.cls somewhere where LaTeX can find it (this is the only file that is necessary for using the class). Probably the easiest way is to copy it to the directory where you will create your document: LaTeX looks for package and class files also in the current directory.

2 Modifying the package

If you wish to modify the package, you can modify tktla.cls directly, but you should note that the file is actually automatically generated from tktla.dtx and tktla.ins (along with the documentation). The command to create tktla.cls from tktla.dtx and tktla.ins is "tex tktla.ins".

The formatted documentation (tktla.ps) can be generated by running the following commands:

- latex tktla.dtx
- latex tktla.dtx
- dvips tktla.dvi -o tktla.ps

If you want to modify tktla.dtx directly, you should note that, as in all .dtx files, the comments in the file contain LaTeX source for the formatted documentation. See the

documentation for the standard doc and docstrip packages (doc.dvi and docstrip.dvi) for details.

3 Using the package

This section describes how the LaTeX package related to the doctoral theses in Computer Science is used. Using the package should be quite straightforward, when the thesis is a monograph. If the thesis is an article-based dissertation, then some additional things need to be taken into account.

An article-based dissertation (Finnish: nippuväitöskirja) consists of two parts:

- a preamble part (i.e., an introductory summary of the articles), and
- some original articles.

In addition to the summary, the preamble part of the thesis should contain a list of the original articles describing briefly the main contributions of them.

Before each original article there must also be a page (an interleaf) describing where the article was originally published, who has the copyright to the article, and whether the article has a permission to be re-printed. These pages (or the articles) are usually numbered with Roman numbers within a black rectangle.

One way of getting the interleaves to the thesis is to depend on the help of Unigrafia. In that case, you should send the preamble part as a PDF together with all the articles as separate PDF:s to Unigrafia. In addition to that you must send the texts that come to the interleaves to them separate, for example, as a text file.

Another possibility is to make the pages yourself, and then send a single PDF to Unigrafia for printing. The thesis template of the department now contains an example file for producing of these interleaves. The example file works for six original articles, and the commands for making the numbered rectangles need to be modified, if there are less or more original articles related to the thesis. The example file can be run as a separate LaTeX to produce a PDF of the interleaves and the original articles, or the commands in it can be included to the main file of the thesis, in order to produce a single PDF of both the preamble part and the original articles.

When using the LaTeX package, you need to decide whether you want to use the Computing Reviews of 1998 or 2012. In the current version of tktla.cls and other template files it is assumed that the 2012 version is used. If you, however, decide to use the older version of 1998, then you need to edit the tktla.cls file related to the corresponding command in it.

In addition to the actual contents, either the monograph or the article-based thesis (the preamble and the original articles with the overleaves), the thesis catalogue of the department has to be attached to every doctoral thesis.

4 Finalising the doctoral thesis for pre-examination and printing

Check that you are using the **latest version** of the LaTeX template for the department's doctoral theses, and that you have taken into account the other departmental instructions concerning the theses.

A respondent must make sure that his/her thesis is furnished with an A series number and an ISBN number. The Research Coordinator of the Department of Computer Science provides the A series number, and the Finnish ISBN centre provides the ISBN number on application (https://www.kansalliskirjasto.fi/en/using-the-library/applying-for-isbn-and-issn-identifiers-for-publications).

- The publisher is **University of Helsinki** and the publisher identifier is **978-952-10**.
- The series number is ISSN 1238-8645, and the name of the series is Series of publications A / Department of Computer Science, University of Helsinki.
- Note! You need two ISBN numbers, one for the paper version and one for the electronic version.

The thesis catalogue of the department (the A series list) has to be attached to the end of the doctoral thesis. Make sure that all the latest theses are included by checking with the Research Coordinator of the Department of Computer Science, if the thesis catalogue is up to date for your thesis. If the list does not fit on two pages, you can remove the first ('oldest') year. It is customary not to include your own thesis in the list. Note that these catalogue pages are not numbered.

Note that you must wait until you receive **the Faculty's permission to defend your thesis** at a public examination (aka "permission to print") before you can apply for report and ISBN numbers.

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