

Aalto University
School of Science
Master's Programme in Computer, Communication and Information Sciences

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Software Processes for Dummies: Re-inventing the Wheel

Master's Thesis
Espoo, February 14, 2018

DRAFT! — February 10, 2020 — DRAFT!

Supervisors: Professor Juho Kannala, Aalto University
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 ABSTRACT OF
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<p>The abstract provides goal, motivation, background, and conclusions of the work. It has to fit to one page together with the bibliographical information.</p> <p>If the thesis is in English and the language of school education is Finnish or Swedish, the abstract is written in English and in Finnish or in Swedish. If the language of school education is other than Finnish or Swedish, the abstract is written in English only.</p> <p>The thesis example file (<code>thesis-example.tex</code>), all the chapter content files (<code>1introduction.tex</code> and so on), and the Aalto style file (<code>aalto-thesis.sty</code>) are commented with explanations on how the Aalto thesis works. The files also contain some examples on how to customize various details of the thesis layout, and of course the example text works as an example in itself. Please read the comments and the example text; that should get you well on your way!</p> <p>In the thesis template, you can find the text of the abstract in the abstract in the <code>thesis-example.tex</code> file, together with the bibliographical information of the abstract tables. !FIXME This is an example how to use fixme: add your abstract here. <code>FIXME!</code> <code>Fixme</code> is a command that helps you identify parts of your thesis that still require some work. When compiled in the custom <code>mydraft</code> mode, text parts tagged with <code>fixmes</code> are shown in bold and with <code>fixme</code> tags around them. When compiled in normal mode, the <code>fixme</code>-tagged text is shown normally (without special formatting). The draft mode also causes the “Draft” text to appear on the front page, alongside with the document compilation date. The custom <code>mydraft</code> mode is selected by the <code>mydraft</code> option given for the package <code>aalto-thesis</code>, near the top of the <code>thesis-example.tex</code> file.</p> <p>The instructions on how to compile LaTeX <code>*.tex</code> files to <code>*.pdf</code> files like this are giving in the <code>thesis-example.tex</code> file as comments and also in this pdf in a Section <code>??</code>.</p>			
Keywords:	ocean, sea, marine, ocean mammal, marine mammal, whales, cetaceans, dolphins		
Language:	English		

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I wish to thank all students who use L^AT_EX for formatting their theses, because theses formatted with L^AT_EX are just so nice.

Thank you, and keep up the good work!

Espoo, February 14, 2018

Jacopo Losi

Abbreviations and Acronyms

2k/4k/8k mode	COFDM operation modes
3GPP	3rd Generation Partnership Project
ESP	Encapsulating Security Payload; An IPsec security protocol
FLUTE	The File Delivery over Unidirectional Transport protocol
e.g.	for example (do not list here this kind of common acronyms or abbreviations, but only those that are essential for understanding the content of your thesis.
note	Note also, that this list is not compulsory, and should be omitted if you have only few abbreviations

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Chapter 1

Introduction

1.1 Problem statement

Dense and accurate disparity maps are the key factor for obtaining correct depth estimations for many computer vision applications such as autonomous driving, 3D reconstruction and robotics. In these fields fast calculations over wide images are required due to the necessity of real-time implementation. According to the current benchmark database ranks for stereo algorithms the one that performs best in term of calculation cost and accuracy is semi-global matching (SGM)[1].

1.2 Structure of the Thesis

You should use transition in your text, meaning that you should help the reader follow the thesis outline. Here, you tell what will be in each chapter of your thesis. Often the thesis does not have as many chapters as is in this template. For example, environment and implementation can be combined as well as chapters of evaluation and discussion. The rest of this thesis is organized as follows. Chapter ?? gives the background, etc.

Bibliography

- [1] H. Hirschmüller, “Stereo processing by semiglobal matching and mutual information,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 30, no. 2, pp. 328–341, 2008.

Appendix A

First appendix

This is the first appendix. You could put some test images or verbose data in an appendix, if there is too much data to fit in the actual text nicely.

For now, the Aalto logo variants are shown in Figure A.1.



(a) In English

Figure A.1: Aalto logo variants