

TALLINN UNIVERSITY OF TECHNOLOGY  
DOCTORAL THESIS  
XX/201X

**Title of the thesis**

AUTHOR'S NAME



TALLINN UNIVERSITY OF TECHNOLOGY

Name of School

Name of Department

The dissertation was accepted for the defence of the degree of Doctor of Philosophy (Applied Something) on X July 201X

**Supervisor:** title and name,  
Department of .., School of ...,  
Tallinn University of Technology  
Tallinn, Estonia

**Co-supervisor:** title and name,  
Department of .., School of ...,  
Tallinn University of Technology  
Tallinn, Estonia

**Opponents:** Professor First Opponent,  
University of ...,  
City, Country

Professor Second Opponent,  
University of ...,  
City, Country

**Defence of the thesis:** X January 201X, Tallinn

**Declaration:**

*Hereby I declare that this doctoral thesis, my original investigation and achievement, submitted for the doctoral degree at Tallinn University of Technology, has not been submitted for any academic degree elsewhere.*

Author's Name

\_\_\_\_\_ signature



European Union  
European Social Fund



Investing  
in your future

Copyright: Author's Name, 201X

ISSN 2585-6898 (publication)

ISBN ... (publication)

ISSN 2585-6901 (PDF)

ISBN ... (PDF)

TALLINNA TEHNIKAÜLIKOOL  
DOKTORITÖÖ  
XX/201X

# Doktoritöö pealkiri

AUTHOR'S NAME



# Contents

<b>List of Publications</b>	<b>6</b>
<b>Author's Contributions to the Publications</b>	<b>7</b>
<b>Introduction</b>	<b>8</b>
<b>Abbreviations</b>	<b>9</b>
<b>Terms</b>	<b>10</b>
<b>Symbols</b>	<b>11</b>
<b>1 Formatting the text</b>	<b>12</b>
1.1 Types of lists . . . . .	12
1.1.1 Third level section . . . . .	12
<b>2 Figures and tables</b>	<b>13</b>
Résumé . . . . .	13
<b>List of Figures</b>	<b>14</b>
<b>List of Tables</b>	<b>15</b>
<b>References</b>	<b>16</b>
<b>Acknowledgements</b>	<b>17</b>
<b>Abstract</b>	<b>18</b>
<b>Kokkuvõte</b>	<b>19</b>
<b>Appendix 1</b>	<b>21</b>
<b>Appendix 2</b>	<b>25</b>
<b>Appendix 3</b>	<b>29</b>
<b>Curriculum Vitae</b>	<b>33</b>
<b>Elulookirjeldus</b>	<b>35</b>

## List of Publications

**Publication I:** F. Surname, S. Other, and S. Else. Title of Article I. *Prestigious Journal*, 1(1):1–7, 2013

**Publication II:** F. Surname, S. Other, and S. Else. The Second Article. *Prestigious Journal*, 7(10):100–107, 2015

**Publication III:** F. Surname, S. Other, and S. Else. Article no. 3. *Prestigious Journal*, 15(20):54–66, 2016

## **Author's Contributions to the Publications**

- I In Publication I, I was the main author, wrote the simulation program, carried out the simulations and the analysis of the results, prepared the figures, and wrote the manuscript.
- II In Publication II, I was the main author, conducted the experiments and simulations, analysed the results, prepared the figures, and wrote the manuscript
- III In Publication III, I assembled the equipment for the experiment and conducted measurements.

## Introduction

Introduction explains the topic of the work and reasons why it was chosen, the objectives and tasks of the work, investigated object, methods and initial information, the theoretical and practical novelty of the work, overview of approbation (presentation at conferences and seminars, in publications, etc.).

The LaTeX source files should be compiled with commands:

1. `pdflatex thesis.tex`
2. `bibtex thesis`
3. `pdflatex thesis.tex`
4. `pdflatex thesis.tex`

This template defines new types of sections:

**oddpagesection** Section which starts on the next odd numbered page (use for the chapters of the main text).

**section** Section which starts on any new page, regardless if its on the left or right page (even or odd page number).

The old section command `section` is preserved under name `oldsection`. Subsectioning is done as before.



## **Abbreviations (if needed)**

A.U.	Arbitrary Unit
CPU	Central Processing Unit
DAQ	Data Acquisition
FEM	Finite Element Method
SNR	Signal-to-Noise Ratio

**Terms (if needed)**

...  
...  
...  
...

...  
...  
...  
...

## Symbols (if needed)

...

...

...

...

...

...

...

...

# 1 Formatting the text

The first paragraph of the section is automatically non-indented. From second onwards, indentation will be automatic. In LaTeX, the line changes and hyphenations will be automatic. For correct hyphenations, the correct options need to be passed to babel package (see the source file). Then a temporary language change can be done with following commands.

```
\begin{otherlanguage}{estonian}
Eestikeelne tekst koos automaatse korrektse poolitusega.
\end{otherlanguage}
```

This text uses BibTeX for reference management. This involves one or many \*.bib files which contain the correctly formatted reference entries in text format (here references.bib). A \cite{labelname} command is used to insert a citation label. Be sure to use a non-breaking space (tilde) [2, 3]. It is also possible to reference other sections<sup>1</sup>, provided that they have correct labels, such as Section 2.

## 1.1 Types of lists

The lists are used as follows:

- When order is not important, use `itemize` environment.
- Where order is important, use `enumerate` (used similarly to `itemize`).
- If a short description is needed before an item, use `description` as shown below.

A list of type `description` follows. This list shows how to write equations:

**Inline equations** These equations are short and appear inside the text ( $i^2 = -1$ ).

**Labelled equations** These equations appear on a separate line. As such, they are usually labelled and can be referenced with command `eqref` (Eq. (1)):

$$E = mc^2. \tag{1}$$

Here  $E$  is equivalent energy, mass is  $m$  and  $c$  is speed of light.

**Unlabelled equations** These are similar to previous, but lack the label.

$$a^2 + b^2 = c^2,$$

where  $a$  is ...

### 1.1.1 Third level section

Lorem ipsum

---

<sup>1</sup>Other structures can also be referenced automatically by using `label` and `ref` commands.

## 2 Figures and tables

All figures and tables need to be referenced in text, therefore they need to have labels (Fig. 1 and Table 1). Figures and tables need meaningful captions and should be understandable on their own. The `label` command comes after the `caption` is written.

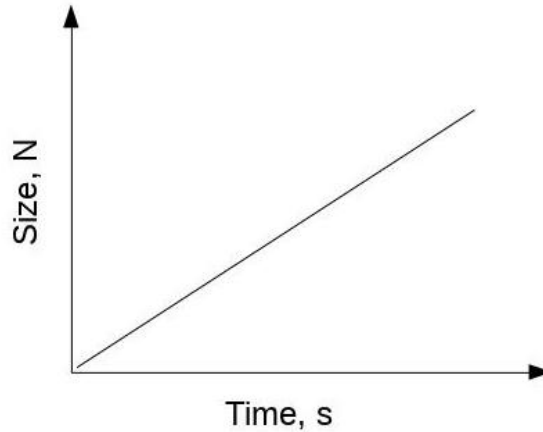


Figure 1 - Full caption of the figure. All figures need to be referenced in text. Figure from [1].

Table 1 - Table Title. All tables need to be referenced in text.

A	B	C
what	1	2
when	now	later
where	here	there

### Résumé

Cette sous-section montre l'utilisation temporaire d'une autre langue.

## List of Figures

1	Abbreviated caption in list of figures . . . . .	13
	(if needed)	

## List of Tables

1	Table Title. All tables need to be referenced in text. . . . .	13
	(if needed)	

## References

- [1] C. Cite. A title of a technical report. Technical report, Technical place, 2000.
- [2] O. Once. *Title of a book*. The publisher, 2017.
- [3] S. Somebody and E. Else. Title of somebody's work in proceedings. In T. Editor, editor, *Booktitle*, volume 1, 2016.
- [4] F. Surname, S. Other, and S. Else. Title of Article I. *Prestigious Journal*, 1(1):1–7, 2013.
- [5] F. Surname, S. Other, and S. Else. The Second Article. *Prestigious Journal*, 7(10):100–107, 2015.
- [6] F. Surname, S. Other, and S. Else. Article no. 3. *Prestigious Journal*, 15(20):54–66, 2016.



## **Acknowledgements**

Here you can thank your supervisor, colleagues, family members, etc. for help and support. Be sure to mention any financial support.

## **Abstract**

### **Title of the thesis**

Abstract is similar to the abstract of a research paper but more thorough (advisable length is 1-2 pages).

It briefly revisits the content of the thesis, including the motivation for this work, novelty with respect to the previous work, problem definition, methodology, results and conclusions.

## **Kokkuvõte**

### **Dokoritöö pealkiri**

Eestikeelne kokkuvõte tehtud tööst. Tänu käsule `otherlanguage` saame kasutada täpitähti ja sõnad poolituvad vastavalt eesti keele reeglitele. Ingliseelses tekstiosas peaksime kasutama LaTeXi käsklusi täpitähtede tekitamiseks.



## Appendix 1

### Publication I

F. Surname, S. Other, and S. Else. Title of Article I. *Prestigious Journal*, 1(1):1-7, 2013



# Title of Article I

F. Surname, S. Other, S. Else

**Abstract:** Abstract text goes here

**Keywords:** article, example

## 1 Introduction

Lorem ipsum dolores





## Appendix 2

### Publication II

F. Surname, S. Other, and S. Else. The Second Article. *Prestigious Journal*, 7(10):100–107, 2015



# The Second Article

F. Surname, S. Other, S. Else

**Abstract:** Abstract text goes here

**Keywords:** article, example

## 1 Introduction

Lorem ipsum dolores



## Appendix 3

### Publication III

F. Surname, S. Other, and S. Else. Article no. 3. *Prestigious Journal*, 15(20):54–66, 2016



# Article no. 3

F. Surname, S. Other, S. Else

**Abstract:** Abstract text goes here

**Keywords:** article, example

# 1 Introduction

Lorem ipsum dolores



# Curriculum Vitae

## 1. Personal data

Name	Firstname Surname
Date and place of birth	1 January 1970 Tallinn, Estonia
Nationality	Estonian

lorem ipsum

## 2. Contact information

Address	Tallinn University of Technology, School of ..., Department of ..., Ehitajate tee 5, 19086 Tallinn, Estonia
Phone	+372 ...
E-mail	...@ttu.ee

## 3. Education

2013-...	Tallinn University of Technology, School of ..., Course name, PhD studies
2011-2013	Tallinn University of Technology, Faculty of ..., Course name, MSc <i>cum laude</i>
2008-2011	Tallinn University of Technology, Faculty of ..., Course name, BSc

## 4. Language competence

Estonian	native
English	fluent

## 5. Professional employment

2017- ...	Company name, Work title
2013-2016	Company name, Work title

## 6. Voluntary work

2008-...	...
----------	-----

## 7. Computer skills

- Operating systems: ...
- Document preparation: ...
- Programming languages: ...
- Scientific packages: ....

## 8. Honours and awards

- 2013, ...

## 9. Defended theses

- 2013, Thesis title, MSc, supervisor Prof. ..., Tallinn University of Technology, Institute of ...
- 2011, Thesis title, supervisor Dr. ..., Tallinn University of Technology, Institute of ...

## 10. Field of research

- ...

## 11. Scientific work

### Papers

1. F. Surname, S. Other, and S. Else. Title of Article I. *Prestigious Journal*, 1(1):1–7, 2013
2. F. Surname, S. Other, and S. Else. The Second Article. *Prestigious Journal*, 7(10):100–107, 2015
3. F. Surname, S. Other, and S. Else. Article no. 3. *Prestigious Journal*, 15(20):54–66, 2016
4. F. Surname, S. Other and S. Else. A fourth publication title, not contained in this thesis, *The Journal*, 123450, 2013
5. F. Surname, S. Other and S. Else. The title of the fifth publication. In S. Editorname, editor, *The conference proceedings title, January 28–February 03, Village, Country*. pages 110–114. Publisher, 2016

### Conference presentations

1. F. Surname, S. Other, and S. Else. *Title of presentation*, Conference name: 8–12 September 2014, Tallinn
2. F. Surname, S. Other, and S. Else. *Another title*, Some conference, 6–10 October 2014, Prague, Czech Republic

# Elulookirjeldus

## 1. Isikuandmed

Nimi	Eesnimi Perenimi
Sünniaeg ja -koht	01.01.1970, Tallinn, Eesti
Kodakondsus	Eesti

## 2. Kontaktandmed

Adress	Tallinna Tehnikaülikool, ... Instituut, Ehitajate tee 5, 19086 Tallinn, Estonia
Telefon	+372 ...
E-post	...@ttu.ee

## 3. Haridus

2013-...	Tallinna Tehnikaülikool, ... teaduskond, Õppekava nimetus, doktoriõpe
2011-2013	Tallinna Tehnikaülikool, ... teaduskond, Õppekava nimetus, MSc <i>cum laude</i>
2008-2011	Tallinna Tehnikaülikool, ... teaduskond, Õppekava nimetus, BSc

## 4. Keelteoskus

eesti keel	emakeel
inglise keel	kõrgtase

## 5. Teenistuskäik

2017- ...	Asutuse nimi, ametinimi
2013-2016	Asutuse nimi, ametinimi

## 6. Vabatahtlik töö

2008-...	...
----------	-----

## 7. Computer skills

- Operatsioonisüsteemid: ...
- Kontoritarkvara: ...
- Programmeerimiskeeled: ...
- Teadustarkvara paketid: ...

## 8. Autasud

- 2013, ...

## **9. Kaitstud lõputööd**

- 2013, Lõputöö pealkiri, MSc, juhendaja Prof. ..., Tallinna Tehnikaülikool, ... Instituut
- 2011, Lõputöö pealkiri, BSc, juhendaja Dr. ..., Tallinna Tehnikaülikool, ... Instituut

## **10. Teadustöö põhisuunad**

- ...

## **11. Teadustegevus**

Teadusartiklite, konverentsiteeside ja konverentsiettekannete loetelu on toodud ingliskeelse elulookirjelduse juures.