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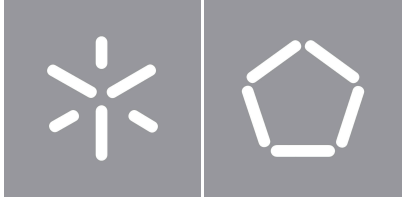

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Master's Dissertation in Informatics Engineering

Dissertation supervised by
Supervisor Name
Co-Supervisor Name

september 2025

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University of Minho, Braga, september 2025

Author's full name

Abstract

Write abstract here (en)

Keywords keywords, here, comma, separated

Resumo

Escrever aqui o resumo (pt)

Palavras-chave palavras, chaves, aqui, separadas, por, vírgulas

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Part I

Introductory Material

Chapter 1

Introduction

Context, motivation, main aims.

Chapter 2

State of the Art

State of the art review; related work.

2.1 Citations

Example of a citation: [1], or [1] M. Goossens, S. Rahtz, and F. Mittelbach, The LaTeX Graphics Companion. Addison-Wesley, 1997..

This entry is in the `dissertation.bib` file.

Check more information about bibliography here: https://typst.app/docs/reference/model/bibliography/ and here: https://typst.app/docs/reference/model/cite/.

2.2 Mathematical expressions

The mass-energy equivalence is expressed by the equation

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

discovered in 1905 by Albert Einstein. In natural units ($c = 1$) the formula expresses the identity

$$E = m$$

Check more information about math expressions here.

2.3 Footnotes

This is a footnote example[1].

2.4 Acronyms and Glossary

Given a set of numbers, there are elementary methods to compute its Greatest Common Divisor (GCD), which is abbreviated GCD. This process is similar to that used for the Least Common Multiple (LCM).

The LaTeX typesetting markup language is specially suitable for documents that include Maths. Formulas are rendered properly an easily once one gets used to the commands.

This glossary is powered by the glossy package. Check more about it there.

2.5 Index

In this example, several keywords will be used which are important and deserve to appear in the Index.

Terms like generate and some will also show up. Terms in the index can also be nested.

The index is powered by the in-dexter package. Check more about it there.

[1]The quick brown fox jumps over the lazy dog.

Chapter 3

The problem and its challenges

The problem and its challenges.

3.1 Images

Example of inserting an image as displayed text,

or as a figure:

Figure 1: Logo of the University of Minho

Part II

Core of the Dissertation

Chapter 4

Contribution

Main result(s) and their scientific evidence

4.1 Introduction

4.2 Summary

Chapter 5

Applications

Applications of the main result (examples and case studies)

5.1 Introduction

5.2 Summary

Chapter 6

Conclusions and future work

Conclusions and future work

6.1 Conclusions

6.2 Future work

Chapter 7

Planned Schedule

7.1 Activities

Task	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Background and SOA	●	●	●							
PDR preparation		●	●	●						
Contribution			●	●	●	●	●	●	●	
Writing up							●	●	●	●

Table 1: Planned Schedule

For more elegant visualisation check some community-made packages like gantty or timeliney.

Bibliography

[1] M. Goossens, S. Rahtz, and F. Mittelbach, The LaTeX Graphics Companion. Addison-Wesley, 1997.

[2] B. Kernighan and D. Ritchie, The C Programming Language (ANSI C), 2nd ed. Prentice Hall Software series, 1988.

[3] R. Bird and P. Wadler, Introduction to Functional Programming. Prentice-Hall, 1988.

[4] D. Flanagan, Java in a Nutshell, 3rd ed. O'Reilly & Associates, 1999.

[5] L. Lamport, LaTeX\ — A Document Preparation System, \nth5 ed. Addison-Wesley Publishing Company, 1986.

Index

G

Generate 4

I

Index 4

Nested 4

K

Keywords 4

O

Others 4

Part III

Appendices

Appendix A

Support work

Auxiliary results which are not main-stream.

Appendix B

Details of results

Details of results whose length would compromise readability of main text.

Appendix C

Listings

Should this be the case.

```
factorial :: Integer -> Integer
factorial 0 = 1
factorial n = n * factorial (n-1)
```

Listing 1: Factorial function

Appendix D

Tooling

(Should this be the case)

Anyone using LaTeX should start using Typst.

Place here information about funding, FCT project, etc. in which the work is framed. Leave empty otherwise.