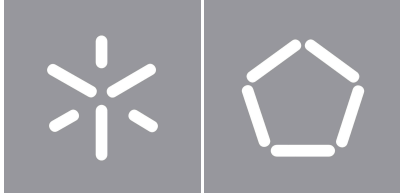


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Master's Dissertation in Informatics Engineering

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I hereby declare having conducted this academic work with integrity.

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I further declare that I have fully acknowledged the Code of Ethical Conduct of the University of Minho.

University of Minho, Braga, october 2023

Author's full name

Abstract

Write abstract here (en)

Keywords keywords, here, comma, separated

Resumo

Escrever aqui o resumo (pt)

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

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Acronyms

GCD Greatest Common Divisor.

LCM Least Common Multiple.

PDR Preliminary Dissertation Report.

SOA State of the Art.

Glossary

formula A mathematical expression.

latex Is a markup language specially suited for scientific documents.

mathematics Mathematics is what mathematicians do.

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: [Goossens et al. \[1997\]](#), cf. this entry in the `dissertation.bib` file. Another way of citing is [[Kernighan and Ritchie, 1988](#)].

2.2 Mathematical expressions

The mass-energy equivalence is described by the famous equation

$$E = mc^2 \tag{2.1}$$

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

$$E = m$$

2.3 Footnotes

This is a footnote example¹.

2.4 Acronyms and Glossary

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

¹ The quick brown fox jumps over the lazy dog.

The **Latex** typesetting markup language is specially suitable for documents that include **mathematics**. **Formulas** are rendered properly and easily once one gets used to the commands.

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 .

Cf. the `dissertation.bib` file to see some index definitions like **UMinho** .

Chapter 3

The problem and its challenges

The problem and its challenges.

3.1 Images

Example of inserting an image as displayed text,



— wrapped into the text, bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla
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bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla bla-bla
— or as a floating body.



Figure 1: Caption

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

Application of 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 Prospect for 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: Activities Plan

Bibliography

Michel Goossens, Sebastian Rahtz, and Frank Mittelbach. *The LaTeX Graphics Companion*. Addison-Wesley, 1997. ISBN 0-201-85469-4.

B.W. Kernighan and D.M. Ritchie. *The C Programming Language (ANSI C)*. Prentice Hall Software series, 2nd edition, 1988.

Index

generate, 4

Index, 4

 nested, 4

keywords, 4

others, 4

UM

University of Minho, 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.

Appendix D

Tooling

(Should this be the case)

Anyone using [L^AT_EX](#) should consider having a look at [TUG](#) , the [T_EX Users Group](#) .

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