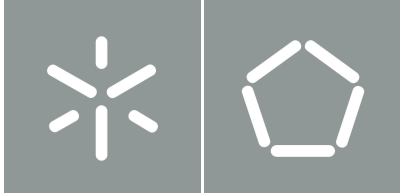


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I hereby declare having conducted this academic work with integrity.

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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, september 2025

Author's full name



## **Abstract**

Write abstract here (in English)

**Keywords** keywords, here, comma, separated

## Resumo

Escrever aqui o resumo (em português)

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

# Contents

I	Introductory Material .....	1
1	Introduction .....	2
2	State of the Art .....	3
2.1	Citations .....	3
2.2	Mathematical expressions .....	3
2.3	Footnotes .....	3
2.4	Acronyms and Glossary .....	4
2.5	Index .....	4
3	The problem and its challenges .....	5
3.1	Images .....	5
II	Core of the Dissertation .....	6
4	Contribution .....	7
4.1	Introduction .....	7
4.2	Summary .....	7
5	Applications .....	8
5.1	Introduction .....	8
5.2	Summary .....	8
6	Conclusions and future work .....	9
6.1	Conclusions .....	9
6.2	Future work .....	9
7	Planned Schedule .....	10
7.1	Activities .....	10
	Bibliography .....	11
	Index .....	12
III	Appendices .....	13
A	Support work .....	14

B Details of results .....	15
C Listings .....	16
D Tooling .....	17

## List of Figures

Figure 1 Logo of the University of Minho .....	5
--	---

## List of Tables

Table 1	Planned Schedule .....	10
---------	------------------------	----



# **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](#) and [here](#).

#### 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<sup>1</sup>.

---

<sup>1</sup>The quick brown fox jumps over the lazy dog.

## 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 and 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.

## 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 [gantt](#) or [timeliny](#).

## **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.