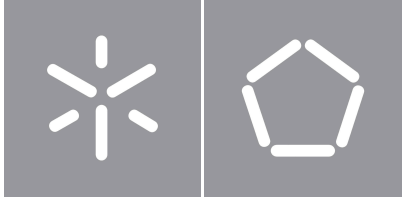
University of Minho
School of Engineering

Author's full name

Title Title Title Title Title Title Title Title Title Title Title Title Title Title

october 2022



University of Minho
School of Engineering

Author's full name

Title Title Title Title Title Title Title Title Title Title Title Title Title Title

Masters Dissertation
Master's in Informatics Engineering

Dissertation supervised by
Supervisor Name
Co-Supervisor Name

october 2022

Copyright and Terms of Use for Third Party Work

This dissertation reports on academic work that can be used by third parties as long as the internationally accepted standards and good practices are respected concerning copyright and related rights.

This work can thereafter be used under the terms established in the license below.

Readers needing authorization conditions not provided for in the indicated licensing should contact the author through the RepositóriUM of the University of Minho.

License granted to users of this work:

[Caso o autor pretenda usar uma das licenças Creative Commons, deve escolher e deixar apenas um dos seguintes ícones e respetivo lettering e URL, eliminando o texto em itálico que se lhe segue. Contudo, é possível optar por outro tipo de licença, devendo, nesse caso, ser incluída a informação necessária adaptando devidamente esta minuta]

CC BY

https://creativecommons.org/licenses/by/4.0/ *[Esta licença permite que outros distribuam, remixem, adaptem e criem a partir do seu trabalho, mesmo para fins comerciais, desde que lhe atribuam o devido crédito pela criação original. É a licença mais flexível de todas as licenças disponíveis. É recomendada para maximizar a disseminação e uso dos materiais licenciados.]*

CC BY-SA

https://creativecommons.org/licenses/by-sa/4.0/ *[Esta licença permite que outros remis-*

turem, adaptem e criem a partir do seu trabalho, mesmo para fins comerciais, desde que lhe atribuam o devido crédito e que licenciem as novas criações ao abrigo de termos idênticos. Esta licença costuma ser comparada com as licenças de software livre e de código aberto «copyleft». Todos os trabalhos novos baseados no seu terão a mesma licença, portanto quaisquer trabalhos derivados também permitirão o uso comercial. Esta é a licença usada pela Wikipédia e é recomendada para materiais que seriam beneficiados com a incorporação de conteúdos da Wikipédia e de outros projetos com licenciamento semelhante.]

CC BY-ND

https://creativecommons.org/licenses/by-nd/4.0/ *[Esta licença permite que outras pessoas usem o seu trabalho para qualquer fim, incluindo para fins comerciais. Contudo, o trabalho, na forma adaptada, não poderá ser partilhado com outras pessoas e têm que lhe ser atribuídos os devidos créditos.]*

CC BY-NC

https://creativecommons.org/licenses/by-nc/4.0/ *[Esta licença permite que outros remisturem, adaptem e criem a partir do seu trabalho para fins não comerciais, e embora os novos trabalhos tenham de lhe atribuir o devido crédito e não possam ser usados para fins comerciais, eles não têm de licenciar esses trabalhos derivados ao abrigo dos mesmos termos.]*

CC BY-NC-SA

https://creativecommons.org/licenses/by-nc-sa/4.0/ *[Esta licença permite que outros remisturem, adaptem e criem a partir do seu trabalho para fins não comerciais, desde que lhe atribuam a si o devido crédito e que licenciem as novas criações ao abrigo de termos idênticos.]*

CC BY-NC-ND

https://creativecommons.org/licenses/by-nc-nd/4.0/ *[Esta é a mais restritiva das nossas seis licenças principais, só permitindo que outros façam download dos seus trabalhos e os compartilhem desde que lhe sejam atribuídos a si os devidos créditos, mas sem que possam alterá- los de nenhuma forma ou utilizá-los para fins comerciais.]*

Acknowledgements

Write your acknowledgements here. Do not forget to mention the projects and grants that you have benefited from while doing your research, if any. Ask your supervisor about the specific textual format to use. (Funding agencies are quite strict about this.)

Statement of Integrity

I hereby declare having conducted this academic work with integrity.

I confirm that I have not used plagiarism or any form of undue use of information or falsification of results along the process leading to its elaboration.

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

University of Minho, Braga, october 2022

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

Contents

List of Figures

List of Tables

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 example[1].

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 an 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

— 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

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 LaTeX should consider having a look at TUG , the TeX Users Group .

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