

Abstract

A long, long time ago...

This section should summarize the content of the dissertation, namely: explain the context of problem, describe the problem itself and address the work done to mitigate/solve the problem. Results and/or contributions should be mentioned.

Resumo

Há muito, muito tempo

See the Abstract.

Agradecimentos

Obrigado a todos, obrigado ...

Dedico a ...

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Acrónimos

BS	Base Station		Universidade do Porto
BSN	Body Sensor Network	HTTP	Hypertext Transfer Protocol
DCC	Departamento de Ciência de Computadores	TCP	Transmission Control Protocol
FCUP	Faculdade de Ciências da	UDP	User Datagram Protocol

Capítulo 1

Introdução

Este template pretende dar uma base para a escrita de dissertações no Departamento de Ciência de Computadores (**DCC**)/Faculdade de Ciências da Universidade do Porto (**FCUP**).

1.1 Organização

Vejam o capítulo ?? para algum contexto sobre o conteúdo de uma dissertação. O capítulo ?? tem alguns pontos sobre o uso do tex e ao longo do texto alguns exemplos são utilizados para mostrar algumas das funcionalidades.

Capítulo 2

Background

This chapter has the “Instructions for preparing and writing M.Sc. Dissertations” (Research-oriented work), Version 1.0, January, 7th, 2015 from prof. Inês Dutra:

2.1 Before Starting

Before starting your dissertation, you need to **define** what is the subject you are going to work with and perform a **thorough systematic** bibliography review of the theme you chose. What is a systematic review? It is the one where you search the web or books for the subject, and define rules for filtering papers in two sets “included” and “excluded” and explain why some papers go to one set or the other. In order to start the search, you need to prepare keywords related to your subject and prepare queries to be used in Google Scholar, Scopus, MesH etc. These search engines will return a number of papers on the subject you are looking for. **You need to read at least the abstract and conclusions of every paper retrieved after your search.** Now, you filter out only the ones you think are very closely related to your research work, and give a reason for choosing those papers.

2.2 Bibliography

Start organizing your bibliography file. Choose one of the standards available to start organizing your references. Usually your department/faculty has clear rules about the standard to be used. If you are formatting your text using LaTeX, most references found during your bibliographic search can be exported in BibTeX format.

2.2.1 Bibliography Section

Your dissertation needs to have a Bibliography Section with a list of the cited works you have in the text. In the process of writing your dissertation, make sure to properly refer the authors you are basing your text on. For example, “Smith et al. [1] discovered that...”. In this sentence, Smith is the first author of one of the publications you list in the Bibliography Section of your dissertation and [1] is the link that connects this citation to the publication in the bibliographic list. If your bibliographic entry has only one author, you cite only the author’s surname. If the bibliographic entry has two authors you cite the two authors’ surnames (e.g., Smith and Jones [1]). If the bibliographic entry has more than two authors, you can use the expression “et al.”, like in the example shown before.

2.3 Inserts

Every picture, graph, diagram, algorithm etc needs to have a caption and a number and needs to be cited and explained in the text.

2.3.1 Copyrights and image usage

If you want to use any picture, graph, diagram etc available in one of the publications in your dissertation, you need to make sure that you can use it (check the copyright rules). If the copyright rules allow you to reproduce the picture (or others) in your text, you need to insert a reference to the source (where the picture was taken from) in the caption. If you are allowed to use a picture, but want to slightly modify it, you need to say in the caption: Adapted from [1] (where [1] is the number of your reference in the Bibliographic Section).

2.4 Chapters/Organization

Chapter 1: Introduction This should be a summary of what comes in the next chapters.

Here you explain in two to five pages: (1) the context of your work highlighting and defining the problem you need to solve, (2) what you want to do (objectives) and (2) why you want to do it (motivation), (3) how you want to achieve your objectives (methodology), always supporting your text on the available literature, (4) contributions (Results that confirm that you achieved your objectives) and (5) organization of the chapters that come next.

Chapter 2: Basic Concepts In this chapter you need to present the foundations of your work: theoretical aspects, background material etc, all that is needed to understand the terminology and expressions used in the remaining chapters.

Chapter 3: Related Work Here you need to discuss about other works in the literature that

do something similar to what you want to do. You need to cite and discuss the relevant papers you chose to include in your study during your survey. Explain what others do, why it is not sufficient, and why you need to do what you want to do. It is helpful to define some criteria to compare your work against others, and build a table with main characteristics of other works contrasting to what you want to do. In other words, in which aspects is your work different from others?

Chapter 4: Your Work

Chapter 5: Materials and Methods Should have:

- Definition of Experiments (if any)
- Definition of Evaluation Metrics

Chapter 6: Results and Analysis

Chapter 7: Conclusions and Future work Should have:

- Research Summary
- Main Findings
- Limitations
- Future Work
- Conclusion

During writing, some of these chapters may collapse into just one. **Your work (chapters 4-7) should account for at least 50% of your whole dissertation.**

2.4.1 Contents of each chapter

You should start each chapter with a summary of it is its objective and contents, preferably relating to previous ones. At the end of the chapter provide a conclusion/summary of it, preferably connecting it to the next one.

2.5 Cover

Your dissertation needs to have a cover, and a table of contents. It is also useful to have, in the preamble, a list of Figures, Tables, Algorithms etc. It is recommended to have a look at other recent dissertations of your colleagues of the same department to make sure you use the right formatting rules. These dissertations are publicly available online in the digital repository of the University of Porto. For example, the FCUP repository can be found at: <https://repositorio-aberto.up.pt/handle/10216/9535>

Capítulo 3

Estado da Arte

Sem conteúdo relevante, apenas com texto para ocupar o espaço.

3.1 Section example

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3.2 Second Section example

3.2.1 SubSection example

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Capítulo 4

Desenho e Desenvolvimento

O referente ao “Your work” do capítulo 2.

4.1 Exemplo de código

```
public interface CallBackCmdMeasurements { // comment
    public abstract void newMeasure(MeasurementBasic measure, int reqId);
    public abstract void newMeasuresAggSimp(MeasurementBasic[] measuresAggSimp,
        'A string');
}
```

Bloco de Código 4.1: CommandDaemon callback interfaces

É possível como referir o código, por exemplo o bloco de código 4.1.

4.2 Acrónimos

Deve-se acrescentar os acrónimos no ficheiro `acros.tex` e ordená-los alfabeticamente nesse ficheiro. Vamos usar o acrónimo Transmission Control Protocol (**TCP**) que deve estar expandido, assim como no capítulo 5. Os acrónimos devem aparecer expandidos em cada capítulo (o que está já configurado para esta dissertação).

Podem usar `\acs` para apenas mostrar o acrónimo, `\acl` para mostrar a expansão. Ver mais na documentação do pacote `acronym`.

4.3 Figuras

Podem ver a figura 4.1 muito bem. Notem que na lista de figuras não aparece tudo o que está na legenda, mas apenas o que está entre [].



Figura 4.1: O logo da FCUP antigo

4.4 Referências a bibliografia

Algumas referências para se ver a ordenação [4] (estão ordenadas pelo apelido do autor). Aqui outra ainda [2].

Temos aqui o Clausen [1]. E para ver várias [2–4]

4.5 Sugestões na escrita e uso do tex

- usar o ~ para ligar as referências, evita a possível mudança de página: ex.: como o Brandão refere~\cite{bran99}

4.6 Sugestões na escrita e uso do tex

- em inglês não usar a *short form*. Em textos formais deve-se manter a *long form*. Incorreto: “don’t use”. **Correto:** “do not use”

- em inglês (e também português) não usar a forma reflexiva ou indireta, preferir sempre a forma direta (que é mais assertiva e torna as frases menos complexas).
 - incorreto: “Python was used to program”; Correto: “we used Python”

4.7 Tabelas

Exemplo de uma tabela mais complexa na tabela 4.1.

Tabela 4.1: BSN versus WSN (with input from Latré and Guang)

	BSN	WSN
Distribution	i) Existence of a BS ; ii) BS collects, maintains and processes the data; iii) Nodes will do minimal processing, sending all data to the BS ; iv) Centralized system where BS controls all nodes; v) Node replacement is difficult in in-body sensor nodes; vi) Smaller number of nodes; vii) Nodes need to take biocompatibility, wearability into account.	i) A BS may or not exist or there may be several BSs (e.g. mobile nodes collect info, clustering); ii) As in BSN , but also on-demand querying; iii) Nodes will do processing, aggregation to alleviate communication or correlate results; iv) Distributed system, nodes decide cooperatively; v) Node replacement is difficult due to location, scale, etc.; vi) (usually) Wide areas covered by large number of nodes. vii) Nodes may need to be environment friendly, indiscernible from surroundings.
Comm.	i) One hop to BS ; ii) Close range but attenuated by body; iii) Data rates heterogeneous.	i) Multi hop through network of sensor nodes; ii) Long(er) range; iii) Data rates homogeneous.
Data	This is some text on this cell. The multirow package does not know the height of the cell and can not center the cell to the right. This is because of the X from tabularx.	This is on two rows of the table
Energy	Some more text just to show something	

4.8 Referências para outras fontes de informação

Capítulo 5

Experiências e Testes

O referente ao “Materials and Methods” do capítulo 2.

Outro acrônimo pode ser Transmission Control Protocol (TCP) (que deve estar expandido aqui, apesar de ter sido usado já no capítulo 4.

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Capítulo 6

Resultados e análise

Capítulo 7

Conclusões

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7.1 Trabalho Futuro

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