

TITLE

Add your
title here

handed in
BACHELOR'S THESIS

cand. ing. Don Knuth

your title

born on the 01.02.3456

your name

living in:

date of birth

Bakerstreet 221B

address

8xxxxy Munich

Tel.: 089 - 1234567

phone no.

Human-centered Assistive Robotics
Technical University of Munich

Univ.-Prof. Dr.-Ing. Dongheui Lee

Supervisor:

add your supervisor(S)

Start:

add start date

Intermediate Report:

add intermediate report delivery date

Delivery:

add final report delivery date

In your final hardback copy, replace this page with the signed exercise sheet.

Before modifying this document, READ THE INSTRUCTIONS AND GUIDELINES!

Abstract

A short (1–3 paragraphs) summary of the work. Should state the problem, major assumptions, basic idea of solution, results. Avoid non–standard terms and acronyms. The abstract must be able to be read completely on its own, detached from any other work (e.g., in collections of paper abstracts). Don't use references in an abstract.

Zusammenfassung

Hier die deutschsprachige Zusammenfassung.

Talk to your supervisor if this is needed and/or wanted before starting with your thesis

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Chapter 1

Working with this Template

Hand in your thesis at minimum **one week** before the deadline for correction. You will receive feedback for the final version and very likely have to do minor or major revisions of your writing. Plan your writing schedule to allow for these adjustments, which can have quite some impact on your grade!

Please have a look on our thesis-guidelines as well before submitting your *final* thesis.

Make sure your thesis is well structured, that each major section does what it is supposed to do, and that the whole thing hangs together. The basic structure is often as given in this template (but other structures are possible). In particular, don't think you need to have exactly as many major sections or chapters as the list implies; sometimes it makes sense to merge things, sometimes it makes sense to move things (e.g., the literature review is in many papers deferred until after the results), sometimes it makes sense to split a logical part into several individual sections. Just use some common sense.

You do not have to write down everything you do. The goal is a structured (but not over-structured) report that provides everything needed to understand and replicate your work (data, formulas, parameter values, ...). Not everything that you do/read/plot during your work has potential to be put in the report. A longer report is not necessarily better!

Structure in a nutshell:

- Chapter 1: Introduction
 - General motivation - understandable even to your grandma.
 - What has been done before? (related work: How do other people solve your problem? What are drawbacks of their approaches?)
 - How do you approach the issue? What are the challenges? What methods do you use? What is new about your approach?
 - Describe the structure of your report:

- This report is structured as follows: Chapter 2 introduces In Chapter 3 is discussed in Chapter 4. . . . and so on . . .
- Optional: put notation here.
- Chapter 2: Relevant methods - describe the methods and structures you use
- Chapter 3: Describe your approaches
- Chapter 4: Simulation results
 - Describe the setup/model/implementation.
 - Give all parameters necessary to replicate your results.
 - Show results.
 - Discuss results thoroughly (a critical view point is important here).
- Chapter 5: Experimental results (structure similar to simulation results)
- Chapter 6: Conclusion
 - Summarize the goal of your work.
 - Summarize your approach and your results.
 - Discuss features and drawbacks of your approach.
 - Give an outlook on possible future work

1.1 Structuring: Sections

Use chapters, sections and subsections to structure your document.

1.1.1 Subsection

This is a subsection.

Subsubsection

Subsubsections can be used to further structure information within a subsection. They don't show up in your list of contents. Please don't use more than these two "sub"-prefixes to sections (no: subsubsubsubsection). If you feel that you need even finer grained structuring, rethink your overall structure.

Paragraphs are sometimes more useful than subsubsections to structure text without breaking the flow.

1.2 Style and Expressions

Before handing in your thesis, even for an intermediate review, please perform a spellcheck and correct grammar mistakes. Proof-read your work thoroughly BEFORE you send it to your supervisor. Text/latex editors usually have a spell check option included - use it!

The report is not meant to be a narrative text. Please stick to neutral and technical style and avoid subjective or biased expressions or adjectives/adverbs such as *obviously*, *always*, *very*, *especially well*, *actually*, *so-called etc*. Scientific writing is about precision and you should underpin your statements factually, not soften them with unnecessary qualifiers. Look at the papers you read and use them as a reference on how other people write scientifically.

If you know that you often make the same errors without meaning to (e.g. use past tense, forget protected spaces, use present progressive, use a word in the wrong way, ...) in many cases the search (or replace) function helps in finding them all.

1.2.1 Writing

Choose whether you want to write American English or British English and stick with it (more common is American English). If your spellcheck allows to set dictionaries, pick the appropriate language pack (British/US) to get corrections hints that help you to consistently write in either of the two languages. Make sure you are aware of the basic rules of English grammar (sentence structure, adverbs with "-ly" at the end, use of punctuation, etc.).

Keep it simple:

- Simple and short sentences (subject - verb - object)
- Simple words you know even if it sounds repetitive (Your teacher probably told you in school, that you should find synonyms whenever possible. You can do this when you write in your native language and you have a feeling for the words. Otherwise it is okay to sound repetitive. And in any case: Do NOT just use new words without thoroughly researching all their meanings, really, don't!)
- If you really cannot avoid using new words, double-check whether the word really means what you want to express (translate the word back into your mother tongue and check its other meanings)

Do not use "I", use "we" instead, but do not overuse as this may sound too casual for your report. Instead use a passive form or activated objects (e.g. "The figure shows ...", "The robot moves ..."). Use present tense without exceptions (especially no past tense - NEVER - not even when you write about related work or in the conclusion). Instead use simple present ("I write this in my report.") - never present progressive

("ing" forms: "I am not writing this in my report."). Also keep in mind that punctuation is not optional. Line breaks on the other hand should only be used whenever a new train of thought starts. Do not overuse them. Articles (the/a/an) are also NOT optional. If you are not sure which preposition (in, on, to, ...) to use with a word, remember: Some words are used with various prepositions, but then they often have different meanings! Do not overuse "can" or "cannot". There are other formulations that often fit better.

1.3 References

Use references to your equations/theorems/figures/etc. to make it easier for the reader to follow, especially when you need it again later in a different context. References to chapters/sections/subsections are labeled with `\label{...}` and referred to with `\ref{...}`. Use:

- Capital "Chapter~`\ref{...}`" for chapters or "Section~`\ref{...}`" for sections and subsections with protected space "~" at the beginning of sentences:
 - Chapter 1/Section 1.1 describes ...
- Capital "Chap.~`\ref{...}`" for chapters or "Sec.~`\ref{...}`" for sections and subsections with protected space "~" within sentences:
 - ... is described in Chap. 1/Sec. 1.1.
- Small "chapter" or "section" (NEVER subsection, ... - these are also sections) if it is not followed by a reference:
 - In the following chapter/section, the method ...

1.3.1 Equations

Refer to equations whenever it helps in understanding your text. This makes it easier for the reader to follow your train of thought:

- NEVER refer to an equation before you introduce it.
- Equation numbers should be put in brackets (1.1) - use `\eqref{}`, this does it automatically for you. Use the protected space "~" to avoid lines starting with equation numbers.
- Do not start a sentence with an equation number.
- Do not write "equation" before putting the reference:
 - Bad: Using Equation (1.1), it is possible to show ...
 - Good: Using (1.1), it is possible to show ...

1.3.2 Figures

References to figures should be included in the following way:

- Capital "Figure~\ref{fig}" with protected space "~" at the beginning of sentences:
 - Figure 1.1 shows the motion of the point mass.
- Capital "Fig.~\ref{fig}" with protected space "~" within sentences:
 - The motion of the point mass is shown in Fig. 1.1.
- Small "figure" if it is not followed by a reference:
 - The figure also shows

1.3.3 Tables

Tables make it easy to understand the content. Less lines are sometimes better and look nicer, take a look in literature. References to tables should be included in the following way:

- Capital "Table~\ref{tab}" with protected space "~" at the beginning of sentences:
 - Table 1.1 lists
- Capital "Tab.~\ref{tab}" with protected space "~" within sentences:
 - . . . are given in Tab. 1.1.
- Small "table" if it is not followed by a reference:
 - The table also lists

1.3.4 Definitions/Assumptions/Theorems/Lemmas

Basically the same as for figures, tables, chapters and sections applies:

- Use protected spaces "text~\ref{...}".
- Capital and full word (Definition/Assumption/Theorem/Lemma/Proposition~\ref{...}) at the beginning of sentences.
- Capital and short form (Def./Ass./Th./Lem./Prop.~\ref{...}) in the middle or at the end of sentences.
- Small and full word (definition/assumption/theorem/lemma/proposition) if used without reference.

1.4 Equations

Include equations in your text in a meaningful way. Example:

The equation of motion of a point mass is given by

$$m\ddot{x} = f, \quad (1.1)$$

where $m \in \mathbb{R}$ is the mass, $f \in \mathbb{R}$ the externally applied force and $\ddot{x} \in \mathbb{R}$ the acceleration in x -direction.

You can use (1.1) to reference an equation in the text. Equations without reference number:

$$y = x^2$$

Please type all numbers in mathematics mode. Mathematical equations which are not part of the text should be centred. In columns, align equations with the arithmetic operator ($=, <, \dots$). Type physical units as normal text, e.g. s, not s ! Formulas must not jut out over the text margin, so take care to stay within the margins and eventually break the equation into several lines. Explain the variables you use. For each newly introduced variable, at least a short description of it should follow the equation in the style of *... with x being the position of the cart and u the control input*. Use variable names whenever possible to make it easier for the reader to make the connection: *Bad*: A high mass slows down the acceleration; *Good*: A high mass m slows down the acceleration. A parameter or variable must not be used at the beginning of a sentence. Mathematical units must be consistently labelled with only one variable. **Do not use a variable for more than one mathematical unit.** If you use in-line equations, either to introduce parameters or for actual equations, put a “~” in between the in-line equation and the preceding word. This is a protected space - it avoids that the equation is moved to the next line, which would be considered bad style. See also the example above.

If you use descriptive text in equations, set it as `\text{}`. Examples:

- x_{measured} : “measured” is descriptive here and not a variable/parameter
- $q_{\text{des},i}$: “des” is descriptive here but “ i ” is a counter and therefore not in text

Consistency is key: Choose a style for your notation and stick with it. We suggest giving a notation list somewhere in your report (ideally in the beginning). Most often used:

- vectors: bold, small letters `\mathbf{}`
- matrices: bold, capital letters `\mathbf{}`
- scalars: small (sometimes also capital), non-bold letters

- general sets: `\mathcal{}`
- sets of numbers (real, whole, ...): `\mathbb{}`

1.5 Figures

For pictures, you can use .pdf,.jpg,.png, etc when working with **pdflatex**, with **latex** you need .eps:

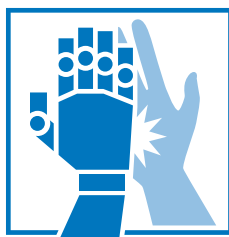


Figure 1.1: Long Description: The subtitles of tables and illustrations should be self-explanatory.

Figures should be vector graphics (pdf or eps) and self-made (to avoid blurry pictures). We recommend pgfplots/tikzpiktures or inkscape and Matlab (export figure with tick set at Rendering - Custom renderer: painters) in combination with `\psfrag{ }[][]{ }` to replace the text in L^AT_EX.

Every illustration must be described and referenced in the text, cf. Fig. 1.1. There is no such thing as a decorative figure! If the figure is not mentioned in the text and therefore lacks an explanatory function, leave it. Lines in plots need to be clearly distinguishable, also in black-and-white print. Therefore, choose your colors and line styles wisely and consistently! The subtitles and axis labels must be clearly legible (i.e. big enough) and include a scaling. Ideally, the figure is self-explanatory with labels, arrows, text, etc. Text in figures should be without serif: `{\sf your_text_goes_here}`, about the same size as the "normal" text and labels should include all important information such as the name of the depicted variable and the corresponding unit. Captions should clearly describe the content. If the caption is rather long, use "`\caption[short_caption]{long caption}`". The long caption appears below the figure, the short caption appears in the list of figures. If the illustration is copied from another person's work, you need to mention the source with `\cite{}`.

By using subfigure several pictures can be combined in one main picture:

This figures can be referenced by either referencing the overall label 1.2 or a specific subfigure label 1.2(a) - if the labels have been set properly of course! The subfigures are not listed in the list of figures!

1.6 Definitions / Assumptions / Theorems / Lemmas

Sometimes a definition is helpful, especially for later reference. Motivate and introduce each one and do not just list definitions one after another. Explain why it is important and what it is used for. Assumptions are useful to emphasize what preliminaries have to be fulfilled for your approach to work, especially if you plan to introduce theorems, lemmas, etc.

Points to remember:

- Do not list assumptions one after another.
- Motivate and introduce each one.
- Explain how restrictive it is and illustrate its effects on the application.

Sometimes you need to cite a theorem/lemma/proposition.

Points to remember:

- Same as above: do not just list, motivate, introduce, explain what this enables.
- Make yourself familiar with the way theorems/... are usually formulated. Look at the literature.
- Make sure all relevant assumptions and preliminaries are stated in the theorem/...
- Make the proof (if it is your own theorem/...) conclusive and understandable.

1.7 Citations

Citations are extremely important and **must** be included whenever you use other people's work. Direct citations with directly copy-pasting the content and marking it with "... " are unusual in scientific reports. Always try to reformulate the source into your own words to generate an indirect citation.

Whether to use numeric or alphabetic references isn't all that important (unless prescribed by a conference or journal), but alphabetic tends to be more readable. Independent of citation style, the following rules should be followed:

- Use the `LATEX` cite package. It doesn't give you additional commands, but it fixes a few quirks in `LATEX`. Among others it automatically sorts multiple citations, and it correctly spaces the angular brackets (if you use the `\cite{}` command without leading white space).

- Citing several papers at one point should be done with a single `\cite{}` command. For example, use `gives good results\cite{Bloe_99, Jay_87}`, resulting in gives good results [BJ99, Jay99].

Do not use `gives good results\cite{Bloe_99}\cite{Jay_87}` which produces the ugly gives good results [BJ99][Jay99]. Also, note that there is no space between the `\cite{}` command and the preceding word, \LaTeX (with the cite package) does the spacing correctly.

- Avoid citations of the kind: [BJ99] thinks that $x > y$ is valid, but [OLH00] argues that this is invalid in case of $z \geq 5$. This works a bit better if using alphanumeric citation labels. Better, though, use the author's names: Bloe and Joe [1] think that $x > y$ is valid, but O'Neill et al. [OLH00] argues that this is invalid in case of $z \geq 5$.

- Avoid citations at the beginning of a sentence:

– Bad:

- * [BJ99] introduces different methods for motion control. (citation at the beginning)
- * Different methods for motion control are introduced in literature. [BJ99] (citation after the punctuation)
- * Different methods for motion control are introduced in[BJ99]. (preceding space missing or wrong cite package)

– Good:

- * Different methods for motion control are introduced in [BJ99].
- * Khalil et al. introduce different methods for motion control [BJ99].
- * Motion control as in [BJ99] is generally used to
- * Motion control [BJ99] is generally used to
- * Motion control is generally used to . . . [BJ99].

- BibTeX is a great tool, but you need to know how to use it. A regular trap is to forget that \TeX knows more about typesetting than you do. So, for example, it changes the case of words in the title. If your title contains acronyms and proper names (most do), they tend to get down-cased. Any such words which should not have their case changed should be put into braces, e.g., `{The {Mungi} {OS} and its Use in Merry-Go-Round Seat Allocation}`.
- In citations don't abuse the category technical report. People tend to cite just about anything that hasn't been published in a journal or conferences as a TR. This is outright wrong. The concept of a TR is actually fairly well defined: A TR is published in some sort. This is generally as part of a formal TR series of some institution, in hardcopy or on the web or both. (They aren't

always called "technical report", other common names are "research report", "technical memorandum", <institution> "report" etc.) The publication (i.e. availability outside) is essential, otherwise it's at best an internal report. A TR has a number (absolutely!), an institution (publisher), a date (month and year at least) and a publisher's address (besides all the other stuff bibentries have). If your document doesn't have these features, it's not a TR. It's probably better categorized as a working paper. Even then it has a date and an institution address.

- Citing web pages is often unavoidable (but also often a sign of laziness). When citing web pages be aware that they may only be short-lived. Consider whether the reference will be of any use to the reader at all if the link is broken. Or whether your whole document only has a use-by date a few months past writing.

Any cited document, whatever it may be, has a few **mandatory** features:

- Date. Absolutely.
- Author/organization/creator/person responsible for contents.
- Whatever information the reader needs to find that document. In most BibTeX entry types these are clearly identified as mandatory fields. Mandatory means that they aren't optional. Don't pretend they are. For a working paper these might be the contact details of the author.

For bibliography, edit `mybib.bib` and list all references in a special style, e.g. for a book:

```
@book{literaturstelle1,
  author   = {S. Sastry},
  title    = {Nonlinear Systems - Analysis, Stability, and Control},
  publisher = {Springer},
  year     = 1999
}
```

Cite references in the text by `\cite{citationreference}`.

In order to have your references shown in your PDF, compile by:

```
latex myfile
bibtex myfile
latex myfile
latex myfile
dvips myfile
ps2pdf -sPAPERSIZE=a4 myfile.ps
```

Alternatively you can use your preferred L^AT_EX-editor. The according BibTeX compiler has to be configured properly and then run before running PdfLaTeX. We recommend you to use our preconfigured editors.

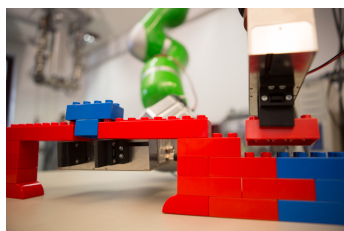
1.8 Compiling

Linux: do the following in a Shell:

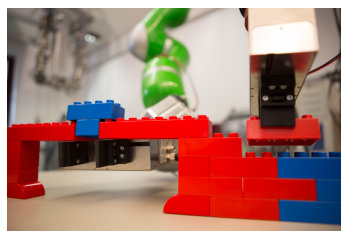
```
latex myfile  
dvips myfile  
ps2pdf -sPAPERSIZE=a4 myfile.ps
```

Make sure to use the A4 option, when you print the pdf!

Alternatively you can use either Kile, Texmaker, etc. on Linux or TeXnic Centre, etc. on Windows. Please be aware you have to set the required L^AT_EX paths in your editors. The most common L^AT_EX-editors in Linux are preconfigured at HCR and should work *out-of-the-box*.

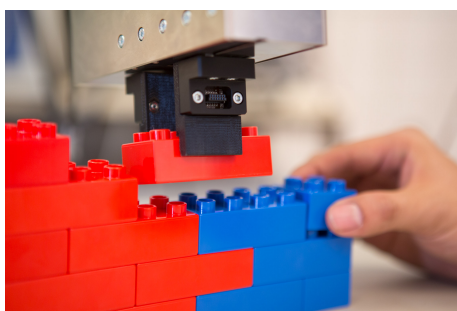
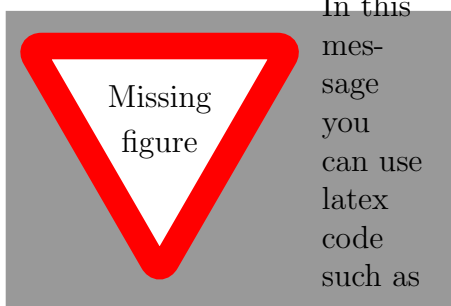


(a) Subfigure 1 caption



(b) Subfigure 2 caption

A
Picture
needs
to be
put
here
later.
In this
mes-
sage
you
can use
latex
code
such as
acronyms,
e.g.
Human-
Robot
Collab-
oration
(HRC)



(c) Subfigure 3 caption

(d) Space-holder for missing picture

Figure 1.2: A figure with two subfigures

Chapter 2

Introduction

Your first chapter in the document. Introduce the problem (gently!). Try to give the reader an appreciation of the difficulty, and an idea of how you will go about it. It's like the overture of an opera: it plays on all the relevant themes.

Make sure you clearly state the vision/aims of your work, what problem you are trying to solve, and why it is important. While the introduction is the part that is read first (ignoring title and abstract) it is usually best written last (when you actually know what you have really achieved). Remember, it's the first thing that is being read, and will have a major influence on the how the reader approaches your work. If you bore them now, you've most likely lost them already. If you make outrageous claims pretend to solve the world's problems, etc, you're likely fighting an uphill battle later on. Also, make sure you pick up any threads spun in the introduction later on, to ensure that the reader thinks they get what they have been promised. Don't create an expectation that you'll deliver more than you actually do. Remember, the reader may be your marker (of a thesis) or referee (of a paper), and you don't want to annoy them.

2.1 Problem Statement

You can either state the problem you are trying to solve in the general introduction, providing the transition from the overall picture to your specific approach, or state it in a separate section. Even if you don't use the separate section, writing down in a few sentences why the problem you are trying to solve is actually hard and hasn't been solved before can give you a better idea of how to approach the topic. This can be also merged with the related work part.

2.2 Related Work

From Kevin Elphinstone's *A Small Guide to Writing Your Thesis*[Elp14]:

”The related work section (sometimes called literature review) is just that, a review of work related to the problem you are attempting to solve. It should identify and evaluate past approaches to the problem. It should also identify similar solutions to yours that have been applied to other problems not necessarily directly related to the one you’re solving. Reviewing the successes or limitations of your proposed solution in other contexts provides important understanding that should result in avoiding past mistakes, taking advantage of previous successes, and most importantly, potentially improving your solution or the technique in general when applied in your context and others.

In addition to the obvious purpose indicated, the related work section also can serve to:

- justify that the problem exists by example and argument
- motivate interest in your work by demonstrating relevance and importance
- identify the important issues
- provide background to your solution

Any remaining doubts over the existence, justification, motivation, or relevance of your thesis topic or problem at the end of the introduction should be gone by the end of related work section.

Note that a literature review is just that, a review. It is not a list of papers and a description of their contents! A literature review should critique, categorize, evaluate, and summarize work related to your thesis. Related work is also not a brain dump of everything you know in the field. You are not writing a textbook; only include information directly related to your topic, problem, or solution.”

Note: Do the literature review at an early stage of your project to build on the knowledge of others, not reinvent the wheel over and over again! There is nothing more frustrating after weeks or months of hard work to find that your great solution has been published 5 years ago and is considered old news or that there is a method known that produces superior results.

Chapter 3

Technical Approach

3.1 Design of your solution

Having explained the problem, and what others have done in similar situations, now explain your approach. Again, give a general overview of your design first, and then go into detail. The important part here is the concept of your work, not the actual implementation! Make sure that the document (particularly a thesis) is self-contained: It should be possible for a reader familiar with the general area to understand your design. Again, be forthright about the limitations of your design. Also, make sure you justify any shortcuts/limitations convincingly.

3.2 Implementation

In many (not all cases) there is a clear difference between the general approach (design) and its implementation in your particular circumstances. The design may be more general than what you can do given time and resources. Or you have developed a general design, and are now implementing a prototype on particular hardware. Give all required details. It should be possible to understand all this without referring to the source code.

This will, in general, include extracts of actual algorithms and hardware components used. Don't list pages of C code, an electronic copy of the source will accompany the submission and should be available to the marker, so there's no point in killing extra trees to put it into the report. Source code, if included at all, goes into the appendix and not the main document.

Make sure you describe your implementation in enough detail. Someone who has nothing else but your thesis report to go by should be able to repeat your work, and arrive at essentially the same implementation. Reproducibility is an important component of scientific work. Also, clearly state the limitations of your implementation, and justify them.

Chapter 4

Evaluation

4.1 Experimental Results

A thesis almost always has an experimental part, typically some comparison to other approaches. Benchmarking takes time, for running the experiments, but also for thinking them up in the first place, and for analysing the results. Plan accordingly to spend enough time here!

Think about what makes sense to measure, what you want to learn from your measurements. Think about what is really the relevant contribution of your thesis, and how you can prove that you have achieved your goals. Think about what you can measure in order to get a good insight into the performance of various aspects of your design, how you can distinguish between systematic and accidental effects, how you can convince yourself that your results are right. If you get surprising results, don't just say "surprise, surprise, performance isn't as good as hoped". Find out why. Surprises without explanation indicate either that you are clueless about what's going on, or that you have made a mistake. Unconvincing results, therefore, tend to imply unconvincing marks.

Statistics: Measurements always have statistical (sampling) errors. Owing to the deterministic nature of simulations these are sometimes very small, as disturbing factors can be designed. However, the reader should be given an indication of how statistically significant the results are. This is done by providing at least a standard deviation in addition to averages. Whenever the results of several runs are averaged, a standard deviation can (and must) be supplied. After all, you average to reduce statistical errors.

The reproducibility argument applies here just as much as for the implementation. Give enough detail on what you measure, and how you measure it, so that someone who has your implementation (but not your test code) or has re-done your implementation independently, should be able to repeat your measurements and arrive at essentially the same results. In some cases, results seem outright wrong in a thesis. In those cases, not enough detail is provided to allow the supervisor/reader to pin-

point the likely source of the error. Often the cause is systematic errors resulting from an incorrect measurement technique. If it seems wrong, and the text doesn't convince the reader that it is not wrong, the reader will assume that it is wrong.

Chapter 5

Discussion

Discuss and explain your results. Show how they support your thesis (or, if they don't, give a convincing explanation). It is important to separate objective facts clearly from their discussion (which is bound to contain subjective opinion). If the reader doesn't understand your results, reconsider if you have managed to extract the core information and explain it in a straightforward way.

Chapter 6

Conclusion

Don't leave it at the discussion: discuss what you/the reader can learn from the results. Draw some real conclusions. Separate discussion/interpretation of the results clearly from the conclusions you draw from them. (So-called "conclusion creep" tends to upset reviewers. It means surrendering your scientific objectivity.) Identify all shortcomings/limitations of your work, and discuss how they could be fixed ("future work"). It is not a sign of weakness of your work, if you clearly analyse and state the limitations. Informed readers will notice them anyway and draw their own conclusions, if not addressed properly.

Recap: don't stick to this structure at all cost. Also, remember that the thesis must be:

- honest, stating clearly all limitations;
- self-contained, don't write just for the locals, don't assume that the reader has read the same literature as you, don't let the reader work out the details for themselves.

This chapter is followed by the list of figures and the bibliography. If you are using acronyms, listing them (with the expanded full name) before the bibliography is also a good idea. The acronyms package helps with consistency and an automatic listing.

Appendix A

BUSTED! Last chance to actually read the HowTo-Section!!

Make sure your thesis is well structured, that each major section does what it is supposed to do, and that the whole thing hangs together. The basic structure is often as given in this template (but other structures are possible). In particular, don't think you need to have exactly as many major sections or chapters as the list implies; sometimes it makes sense to merge things, sometimes it makes sense to move things (e.g., the literature review is in many papers deferred until after the results), sometimes it makes sense to split a logical part into several individual sections. Just use some common sense.

Hand in your thesis at minimum **one week** before the deadline for correction. You will receive feedback for the final version and very likely have to do minor or major revisions of your writing. Plan your writing schedule to allow for these adjustments, which can have quite some impact on your grade!

Please have a look on our thesis-guidelines as well before submitting your *final* thesis.

A.1 Style and Expressions

Before handing in your thesis, even for an intermediate review, please perform a spellcheck and correct grammar mistakes. The report is not meant to be a narrative text. Please stick to neutral and technical style and avoid subjective or biased expressions or adjectives/adverbs such as *obviously*, *always*, *very*, *especially well*, *actually*, *so-called etc.* Scientific writing is about precision and you should underpin your statements factually, not soften them with unnecessary qualifiers.

... Okay enough. But please check chapter 1 before starting with your report.

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Acronyms and Notations

HRC Human-Robot Collaboration

HRI Human-Robot Interaction

HRT Human-Robot Team

Bibliography

- [BJ99] Adam Bloe and Fred Joe. Towards a unified solution of $x > y$. *Math and other geeky stuff*, 1(1):1–23, 1999.
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- [OLH00] James O’Neill, Stan Laurel, and Oliver Hardy. On the correctness of $x > y$: Limits in the case of $z > 5$. *Math and other geeky stuff*, 5(3):56–87, 2000.

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