Template for Scientific Papers

Master Thesis
for obtaining the academic degree

M. Sc.

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Abstract

This document gives an overview of how a scientific paper should be structured. This applies to internship reports as well as to seminar, bachelor and master theses.
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Chapter 1

Introduction

The introduction serves to introduce the topic. Here should be presented to everyone understandable, what’s going on. It’s about giving an idea of what the author has done in this work.

At the end of the introduction a rough overview of the structure of the work should be given.
Chapter 2

State of the Art

In science, so also in computer science we stand “on the shoulders of giants” [McG+09]. Since it would be presumptuous to have thought up everything yourself, there is usually a detailed description of the basics for each work. This finds its place in this chapter.
Chapter 3

Concept

After all the basics have been introduced, this chapter serves to convey the ideas that are at work. This is about pure concepts that initially have nothing to do with the implementation reality. The theory is usually more comprehensive than the final implementation.
Chapter 4

Implementation

With the concept idea from the previous chapter, this chapter describes the actual implementation. It’s not so much about printing a lot of code than explaining the limitations of implementing it. Also, difficulties in implementation and how they were bypassed can be explained.
Chapter 5

Results

Every job usually has results. These can be measurement series, proofs and much more. In this chapter the results are presented and discussed. Mostly the implementation is not perfect and shows weaknesses in peripheral areas. Here is the place to show this.
Chapter 6

Summary & Outlook

The summary is often the first thing to read after the title of a work. It should be a short (about one page) overview of what has been achieved without getting lost in details.

In the result chapter maybe weaknesses of the implementation or the concept were pointed out. In the outlook, solutions can now be identified that could not be implemented in the course of processing. Well-founded solution concepts should be developed. Furthermore, subsequent work in adjacent areas can be proposed.
Appendix A

Appendix

Attached are the things that have no place in the work. Here you may find detailed algorithm descriptions. But even results that would otherwise be superfluous in the work, for example because they show the same as the rest, can be accommodated here.
Bibliography

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