BACHELOR THESIS

ARTIFICIAL INTELLIGENCE



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| Diagnostically Adapting Wav2Vec2 on Air Traffic Control Communication Data |

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**Abstract**

The abstract of your thesis is a brief description of the research hypothesis, scientific context, motivation, and results.

The size of an abstract is usually one paragraph or one page of text.

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# Introduction

The introduction of your bachelor thesis introduces the research area, the research hypothesis, and the scientific contributions of your work.

Simon Peyton Jones, a researcher at Microsoft Research, gives seven tips on how to write a great research paper which might be worth looking at (Jones, 2016).

The following things are usually in an introduction:

* Describe the problem and state the research question;
* Motivate why this problem must be solved;
* Demonstrate that a (new) solution is needed;
* Explain the intuition behind your solution;
* Motivate why / how your solution solves the problem (this is technical);
* Explain briefly how it compares with related work.

The introduction is closed with a paragraph in which the content in the next chapters is briefly mentioned to give an overview. A guideline is one sentence per chapter.

# Preliminaries

This is an optional chapter that contains knowledge that your reader needs to know in order to understand

your work. If there is not much you can also embed the preliminaries in one of the other chapters or even discard it completely.

# Related work

Within this chapter you show that you have sufficient knowledge of the problem domain.

* Other models of ATC
* Wav2Vec2 Model

# Research

In this chapter or in these chapters you write/ show all the details that are required to “prove” your hypothesis. This should be sufficiently detailed and precise such that your fellow students are able to repeat the research and establish the same results and conclusions.

When using large images or models you can use the appendix to improve the readability of your thesis: See the appendix.

* Data Shortage
* Weird sentence structure

# Conclusions

In this chapter you present all conclusions that can be drawn from the preceding chapters.

It should not introduce any new material or theories; these should have been written down earlier in the thesis. Because of this, your conclusion can be brief and to the point.

# Bibliography

# Appendix

Appendices are optional chapters in which additional material is covered. This material is required to fully support your research, that would otherwise clutter the presentation of your research.