

# Project Work HS17 Degree: Computer Science

## Techniques for ML-Assisted Language Translation

Authers

Nicolas Hoferer
Daniel Einars

Main Referee

Marc Cieliebak

Assisting Referees

Kurt Stockinger
Jan Milan Deriu

Date

30.10.2017



#### **Abstract**

This is just some normal text that goes here



#### **Preface**

thank-yous go here





## DECLARATION OF ORIGINALITY Project Work at the School of Engineering

By submitting this Project Work, the undersigned student confirms that this thesis is his/her own work and was written without the help of a third party. (Group works: the performance of the other group members are not considered as third party).

The student declares that all sources in the text (including Internet pages) and appendices have been correctly disclosed. This means that there has been no plagiarism, i.e. no sections of the Bachelor thesis have been partially or wholly taken from other texts and represented as the student's own work or included without being correctly referenced.

Any misconduct will be dealt with according to paragraphs 39 and 40 of the General Academic Regulations for Bachelor's and Master's Degree courses at the Zurich University of Applied Sciences (Rahmenprüfungsordnung ZHAW (RPO)) and subject to the provisions for disciplinary action stipulated in the University regulations.

| City, Date: | Signature: |
|-------------|------------|
|             |            |
|             |            |
|             |            |

The original signed and dated document (no copies) must be included after the title sheet in the ZHAW version of all Bachelor thesis submitted.



### Inhaltsverzeichnis

| 1. | Introduction           1.1. InitialPosition           1.2. Task   |                      |
|----|---|----------------------|
| 2. | Theoretical Principles  | 7                    |
| 3. | Method  | 8                    |
| 4. | Results   | ç                    |
| 5. | Discussion and Prospects  | 10                   |
| 6. | Index 6.1. Glossary 6.2. List of Figures 6.3. List of Tabels 6.4. Listingverzeichnis 6.5. Symbol Glossary 6.6. Acronym Glossary | 13<br>14<br>15<br>16 |
| A. | Anhang A.1. Projektmanagement   | <b>18</b><br>18      |





#### 1. Introduction

- 1.1. InitialPosition
- 1.2. Task



## 2. Theoretical Principles

Test this one here too, please

```
int getRandomNumber()
{
    return 4; // chosen by fair dice roll.
    // guaranteed to be random.
}
```



#### 3. Method



### 4. Results



## 5. Discussion and Prospects

Wie in (?, Kapitel 2, Seite 215) nachzulesen, gibt es sogenannte Gleichungen.HRZélitism $\Omega$ 



### 6. Index





#### 6.1. Glossary

This document is incomplete. The external file associated with the glossary 'main' (which should be called zhawDocument.gls) hasn't been created.

Check the contents of the file zhawDocument.glo. If it's empty, that means you haven't indexed any of your entries in this glossary (using commands like \gls or \glsadd) so this list can't be generated. If the file isn't empty, the document build process hasn't been completed.

You may need to rerun LaTeX. If you already have, it may be that TeX's shell escape doesn't allow you to run makeindex. Check the transcript file zhawDocument.log. If the shell escape is disabled, try one of the following:

- Run the external (Lua) application: makeglossaries-lite.lua "zhawDocument"
- Run the external (Perl) application: makeglossaries "zhawDocument"

Then rerun LATEX on this document.

This message will be removed once the problem has been fixed.



#### 6.2. List of Figures



#### 6.3. List of Tabels



#### 6.4. Listingverzeichnis



#### 6.5. Symbol Glossary

 $\boldsymbol{\Omega}$  unit of electrical resistance 10



#### 6.6. Acronym Glossary

This document is incomplete. The external file associated with the glossary 'acronym' (which should be called zhawDocument.acr) hasn't been created.

Check the contents of the file zhawDocument.acn. If it's empty, that means you haven't indexed any of your entries in this glossary (using commands like \gls or \glsadd) so this list can't be generated. If the file isn't empty, the document build process hasn't been completed.

You may need to rerun LaTeX. If you already have, it may be that TeX's shell escape doesn't allow you to run makeindex. Check the transcript file zhawDocument.log. If the shell escape is disabled, try one of the following:

- Run the external (Lua) application: makeglossaries-lite.lua "zhawDocument"
- Run the external (Perl) application: makeglossaries "zhawDocument"

Then rerun LATEX on this document.

This message will be removed once the problem has been fixed.



## A. Appendix

- A.1. Projektmanagement
- A.2. Final Words