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For attainment of the academic degree of

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Supervision

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Assistance: -

St. Pölten, March 29, 2024

(Signature author)

(Signature advisor)

Declaration

I hereby affirm that

- I have written this thesis independently, that I have not used any sources or aids other than those indicated, and that I have not made use of any unauthorised assistance.
- I have not previously submitted this thesis topic to an assessor, either in Austria or abroad, for evaluation or as an examination paper in any form.
- this thesis corresponds to the thesis assessed by the assessor.

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Signature

Kurzfassung

Motivation Problemstellung Ergebnisse Zusammenfassung

Abstract

This is the motivation and the challenge for this work. In this work this and that has been done. The main contribution is something.

Contents

1 Introduction	1
1.1 Thesis Outline	1
2 Prerequisites	3
3 Related Work	5
4 Approach	9
4.1 Experiments	9
5 Conclusion	11
5.1 Future Work	11
List of Figures	12
List of Tables	13
Acronyms	17
Bibliography	19

1 Introduction

Some general words about the topic.

1.1 Thesis Outline

This document is organized in several parts. Chapter 1 introduces the topic, problems, challenges and motivation. Chapter 2 describes some prerequisites and fundamental knowledge. Chapter 3 lists the related work.

Chapter 4 describes the work done. Section 4.1 reports the experiments and results. Chapter 5 concludes.

2 Prerequisites

TODO: Write me...

3 Related Work

In chapter 3 ist der Related Work zu finden.

Table 3.1 shows hot to read Information Technology (IT) papers.

pass	content to read
first	title, abstract, introduction
	section and sub-section header
	conclusion
	references
second	content, ignoring details (proofs, ...)
third	content in detail (re-implement paper)

Table 3.1: Passes their content for reading a paper

In fig. 3.1 kann das FH-Logo bestaunt werden.



Figure 3.1: FH-Logo

Bilder können auch mit PGF und TikZ gezeichnet werden. Beispiele hierfür sind Figure 3.2 und Figure 3.3.

Infos zu PGF/TikZ sind auf den folgenden Webseiten verfügbar:

- <https://en.wikibooks.org/wiki/LaTeX/PGF/TikZ>
- <http://www.texample.net/tikz/examples/>

The halting problem [1] by Turing is referenced here. It is in the .bib file as depicted by listing 1.

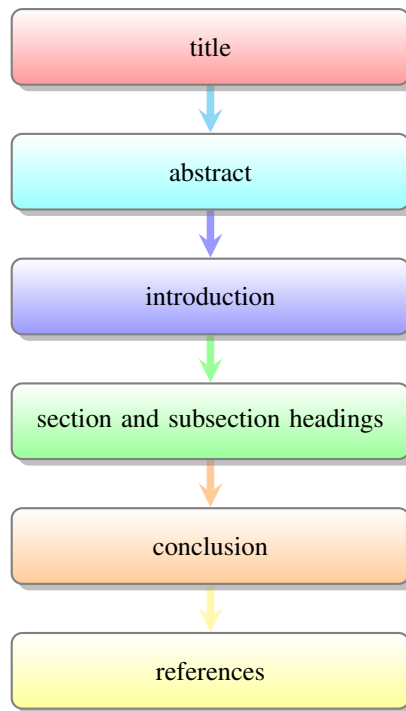


Figure 3.2: Steps of the first pass when reading a research paper

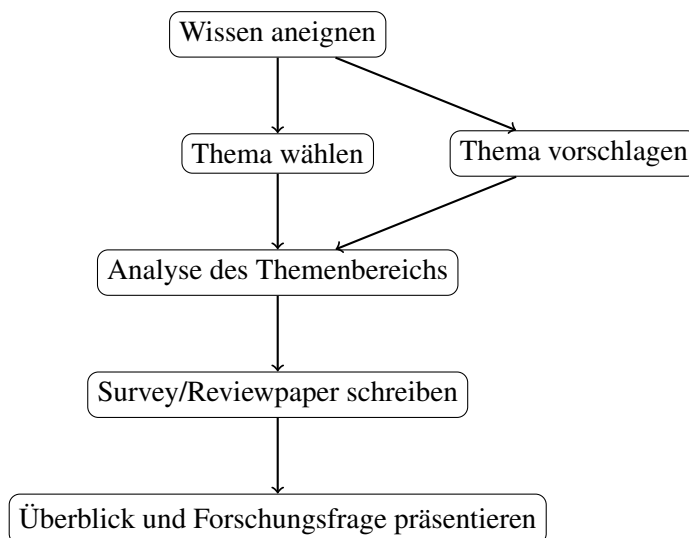


Figure 3.3: Flussdiagramm BAK1

```
1 @article{turing_halting_prob,  
2   author = {Turing, A. M.},  
3   title = {On Computable Numbers, with an Application to the  
4     ↪ Entscheidungsproblem},  
5   year = {1937},  
6   doi = {10.1112/plms/s2-42.1.230},  
7   journal = {Proceedings of the London Mathematical Society},  
8   volume = {s2-42},  
9   number = {1},  
10  publisher = {Oxford University Press},  
11  issn = {1460-244X},  
12  pages = {230--265},  
13 }
```

Listing 1: BibTeX entry for Turings halting problem.

4 Approach

TODO: Write me...

4.1 Experiments

5 Conclusion

TODO: Write conclusion...

5.1 Future Work

TODO: Write future work...

List of Figures

3.1	FH-Logo	5
3.2	Steps of the first pass when reading a research paper	6
3.3	Flussdiagram BAK1	6

List of Tables

3.1 Passes their content for reading a paper 5

List of Listings

1 BibTeX entry for Turings halting problem. 7

Acronyms

AES	Advanced Encryption Standard
API	Application Programming Interface
ASCII	American Standard Code for Information Interchange
COTS	Commercial-Of-The-Shelf
CTF	Capture The Flag
DES	Data Encryption Standard
DRY	Don't Repeat Yourself
GCC	GNU Compiler Collection
GNU	GNU's Not Unix
GUI	Graphical User Interface
I/O	Input/Output
IDE	Integrated Development Environment
IT	Information Technology
JSON	JavaScript Object Notation
Malware	Malicious computer software
OS	Operating System
OSS	Open Source Software

Acronyms

PoC Proof of Concept

Ransomware Malware, preventing user from accessing system or files,
 demanding ransom money

Bibliography

- [1] A. M. Turing, “On computable numbers, with an application to the entscheidungsproblem,” *Proceedings of the London Mathematical Society*, vol. s2-42, no. 1, pp. 230–265, 1937, ISSN: 1460-244X. DOI: 10.1112/plms/s2-42.1.230. [Online]. Available: <http://dx.doi.org/10.1112/plms/s2-42.1.230>.