

TITEL DER ARBEIT

B A C H E L O R A R B E I T

zur Erlangung des Grades eines Bachelor of Science
im Fachbereich Elektrotechnik/Informatik
der Universität Kassel

Eingereicht von: VORNAME NACHNAME
Anschrift: ANSCHRIFT
PLZ ORT

Matrikelnummer: MATRIKELNUMMER
Emailadresse: EMAILADRESSE

Vorgelegt im: Fachgebiet Digitaltechnik

Gutachter: !ERSTPRÜFER! TITEL VORNAME NACHNAME
!ZWEITPRÜFER! TITEL VORNAME NACHNAME

Betreuer: TITEL VORNAME NACHNAME

eingereicht am: DATUM

Zusammenfassung / Abstract

Benjamin dolor sit amet, consectetur adipiscing elit. Etiam quam sapien, mattis non varius eu, rutrum eget nisl. Morbi venenatis molestie ante, sed aliquet lectus aliquet id. Pellentesque consectetur nisl a massa ornare congue. Curabitur pellentesque hendrerit dolor eget faucibus. Etiam non risus arcu, id fermentum elit. Quisque suscipit posuere semper. Vestibulum sit amet dolor nec risus malesuada interdum aliquam in turpis. Maecenas mollis, magna at porttitor fringilla, risus libero commodo justo, non tempus nibh massa lacinia sapien. Aenean sodales ullamcorper massa, eu ullamcorper ipsum tempus sed. In adipiscing congue scelerisque. Pellentesque molestie, quam vel dictum iaculis, metus nunc mollis mi, nec venenatis tellus turpis eu arcu. Praesent at ultricies nibh. Proin neque libero, tincidunt dignissim ornare in, sagittis in ligula. Nunc sagittis sodales massa, a tempus felis vehicula id. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nulla adipiscing vestibulum eros, ut imperdiet augue scelerisque id. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Suspendisse aliquam pulvinar lectus id dictum. Etiam dictum sollicitudin elit sed scelerisque. Nullam sodales semper interdum.

Erklärung

Hiermit erkläre ich, dass ich die vorliegende Arbeit selbstständig und nur mit den nach der Prüfungsordnung der Universität Kassel zulässigen Hilfsmitteln angefertigt habe. Die verwendete Literatur ist im Literaturverzeichnis angegeben. Wörtlich oder sinngemäß übernommene Inhalte habe ich als solche kenntlich gemacht.

ORT, DATUM

DEIN NAME

Inhaltsverzeichnis

Zusammenfassung / Abstract	ii
Erklärung	iii
Abbildungsverzeichnis	v
Tabellenverzeichnis	vi
Listings	vii
1 Einleitung / Introduction	1
1.1 Citations	1
1.2 Figures	1
1.3 Tables	2
1.4 Listings	2
1.5 ToDo's	3
A Anhang / Appendix	4

Abbildungsverzeichnis

1.1	Simple figure	1
1.2	Figure using subfigures	2

Tabellenverzeichnis

1.1	A very simple table	2
1.2	An example of a more complex table	2

Listings

1.1	RPAGT Algorithm	3
-----	---------------------------	---

1 Einleitung / Introduction

Some guidelines and examples are given in the following.

1.1 Citations

Citations should be made using BibTeX in the file `thesis.bib`. Using BibTeX, different styles are available for different types of publications. Examples are books [?], journal articles [?], conference proceeding [?] and electronic resources [?]. Multiple references can be made by [?, ?, ?, ?].

1.2 Figures

A simple example of a figure can be found in Abbildung 1.1. A more complex figure including subfigures is shown in Abbildung 1.2. Here each subfigure can be addressed separately (e.g., Abbildung 1.2(a) and Abbildung 1.2(b)). Please use vector graphics (pdf, eps obtained from svg, etc.) whenever possible. Pixel formats like jpeg, bmp, etc. should only be used for real photographs.

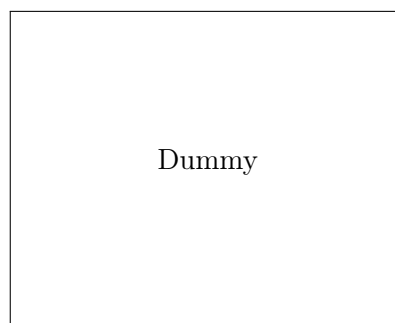
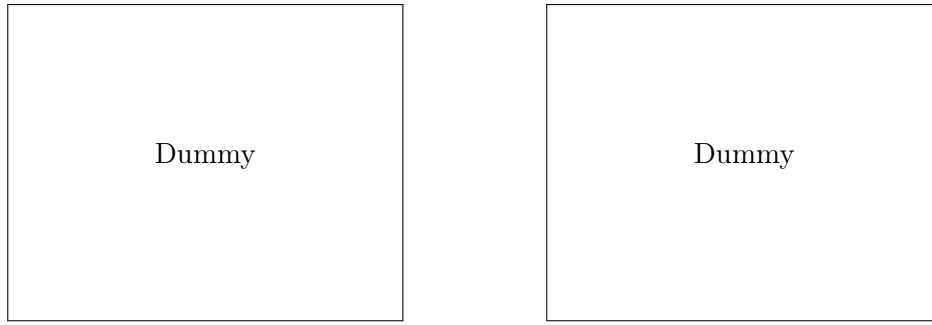


Abbildung 1.1: Simple figure



(a) Caption of subfigure a (can be empty) (b) Caption of subfigure b (can be empty)

Abbildung 1.2: Figure using subfigures

1.3 Tables

Examples of tables can be found in Table 1.1 and Table 1.2. In general vertical lines are not necessary and should be avoided (see [?] for more about table styles).

Tabelle 1.1: A very simple table

	Apple	Orange	Banana
Colour	green	orange	yellow

Tabelle 1.2: An example of a more complex table

N	N_{uq}	RPAG algorithm				RPAGT (proposed)				
		S	add ops	pure reg.	reg. ops	S	add ops	pure reg.	reg. ops	impr.
6	3	3	8	1	9	2	5	0	5	44.4%
10	5	3	10	3	13	2	6	2	8	38.5%
13	7	3	14	2	16	2	8	2	10	37.5%
20	10	3	15	4	18	2	9	3	12	33.3%
28	14	3	20	3	23	2	15	2	17	26.1%
41	21	3	31	1	32	2	23	2	25	21.9%
61	31	3	39	3	42	2	32	2	34	19.0%
119	54	3	62	7	69	2	56	1	57	17.4%
151	71	3	79	4	83	2	72	2	74	10.8%
avg.:	24		30.89	3.56	33.89		25.11	1.78	26.89	27.7%

1.4 Listings

Listings can be included in the text using the `lstlisting` environment. An example listing is shown in Listing 1.1. The listing format is set for pseudocodes (based on the C language). For other languages adjust the settings in `header.tex`.

Listing 1.1: RPAGT Algorithm

```

1 RPAGT( $T$ )
2    $S := \max_{t \in T} \text{AD}_{\min}^3(t)$ 
3    $X_S := \{\text{odd}(t) \mid t \in T\} \setminus \{0\}$ 
4   for  $s = S \dots 2$ 
5      $W := X_s$ 
6      $P := \emptyset$ 
7     do
8        $p \leftarrow \text{best\_single\_predecessor}(P, W, s)$ 
9       if  $p \neq 0$ 
10         $P \leftarrow P \cup \{p\}$ 
11      else
12         $P' \leftarrow \text{best\_msd\_predecessor\_set}(W, s)$ 
13         $P \leftarrow P \cup P'$ 
14         $W \leftarrow W \setminus \mathcal{A}_*^3(P)$ 
15    while  $|W| \neq \emptyset$ 
16     $X_{s-1} \leftarrow P$ 

```

1.5 ToDo's

During the writing of the thesis, ToDo's in the text can be highlighted using `\todo`. Notes at the border of the text can be done using `\todom`.

TODO:
 ToDo re-
 mark at
 the bor-
 der

TODO: This has to be more extended

A Anhang / Appendix