



TECHNISCHE
UNIVERSITÄT
DARMSTADT

A VERY COOL TOPIC

NAME OF THE STUDENT

Master Thesis

January 1, 1337

Secure Mobile Networking Lab
Department of Computer Science
Technische Universität Darmstadt



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ABSTRACT

Short summary of the contents in English...a great guide by Kent Beck how to write good abstracts can be found here:

<https://plg.uwaterloo.ca/~migod/research/beck00PSLA.html>

ZUSAMMENFASSUNG

Kurze Zusammenfassung des Inhaltes in deutscher Sprache...

ACKNOWLEDGMENTS

I would like to express my deepest gratitude to my parents and my family for supporting me in all the years of my studies and also while writing this thesis.

Special thanks for giving helpful advice while writing this thesis goes to Prof. Matthias Hollick and Adrian Loch.

Furthermore, I especially thank Sandrine Adélaïde and Adrian Loch for proofreading my thesis.

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LISTINGS

ACRONYMS

SNR signal-to-noise ratio

INTRODUCTION

Start a chapter with text and not with a section header. Open the *classicthesis-config.tex* file to insert the title of your thesis, the names of your supervisors and the hand-in date of your thesis.

1.1 FIRST SECTION

After a section there should always be text before the next section. The first paragraph is always without indentation. Starting from the second paragraph, there is an indentation.

Here is an equation without numbers for referencing:

$$\underbrace{\begin{pmatrix} \mathcal{B}_1 \\ \mathcal{B}_2 \\ \vdots \\ \mathcal{B}_R \end{pmatrix}}_{\mathcal{B}} = \underbrace{\begin{pmatrix} H_{1,1} & H_{1,2} & \dots & H_{1,T} \\ H_{2,1} & H_{2,2} & \dots & H_{2,T} \\ \vdots & \vdots & \ddots & \vdots \\ H_{R,1} & H_{R,2} & \dots & H_{R,T} \end{pmatrix}}_{H_{\mathcal{A} \rightarrow \mathcal{B}}} \cdot \underbrace{\begin{pmatrix} \mathcal{A}_1 \\ \mathcal{A}_2 \\ \vdots \\ \mathcal{A}_T \end{pmatrix}}_{\mathcal{A}}$$

Here is an equation that you can reference:

$$\underbrace{\begin{pmatrix} \mathcal{B}_1 \\ \mathcal{B}_2 \\ \vdots \\ \mathcal{B}_R \end{pmatrix}}_{\mathcal{B}} = \underbrace{\begin{pmatrix} H_{1,1} & H_{1,2} & \dots & H_{1,T} \\ H_{2,1} & H_{2,2} & \dots & H_{2,T} \\ \vdots & \vdots & \ddots & \vdots \\ H_{R,1} & H_{R,2} & \dots & H_{R,T} \end{pmatrix}}_{H_{\mathcal{A} \rightarrow \mathcal{B}}} \cdot \underbrace{\begin{pmatrix} \mathcal{A}_1 \\ \mathcal{A}_2 \\ \vdots \\ \mathcal{A}_T \end{pmatrix}}_{\mathcal{A}} \quad (1)$$

1.1.1 Referencing

Take a look in the following list to reference sections, figures and equations:

- Section 1.1
- Figure 1
- Equation (1)

1.1.2 Acronyms

For acronyms you should use the *glossaries* package and put your acronyms in the *FrontBackmatter/acronyms.tex* file. The first acronym is

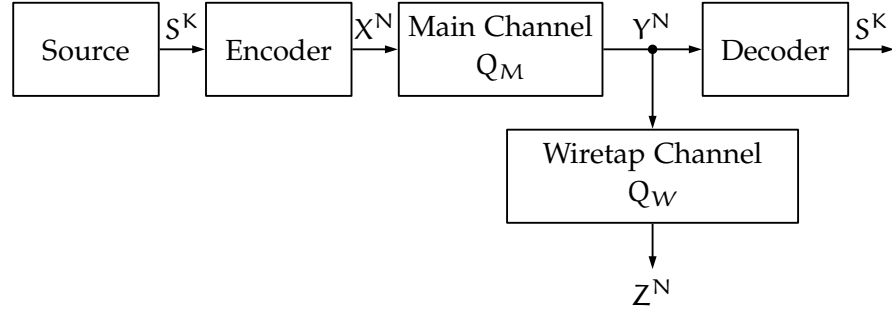


Figure 1: The wiretap channel (source: [1])

always written in it's long form, the following occurrences are abbreviated: first occurrence [signal-to-noise ratio \(SNR\)](#), second occurrence [SNR](#), plural [SNRs](#).

1.1.3 Examples on Figures

When using figures, use vector graphics whenever possible. In Figures 1 and 2 are some examples to generate vector graphics directly from L^AT_EXcode. The second example is based on the *matlab2tikz* script for matlab. You find an example in the *gfx/matlab/create_example_graph.m* file. TikZ is used to generate the graphics. As it takes some time and memory to recompile a graphic, pdf_latex caches generated figures when the `--enable-write18` switch is set when calling pdf_latex. Graphics are only recompiled when you uncomment the `\tikzset{external/remake next}` command. Figures should always appear after the first reference in the text or at the top of the same page as the reference, but never before the reference. Prefer placing figures on separate pages. Try to always have figures and text on each page. Or place enough figures to fill a page only with figures.

1.1.4 Examples on Tables

You can find an example table in Table 1 using the *tabular* environment. Note the use of horizontal lines from the *booktabs* package (`\toprule`, `\midrule`, and `\bottomrule`) and removed whitespace at both sides of the table (`@{}`) as proposed by Markus Püschel.¹

1.2 MARGIN NOTES

Here you can add text to the margin. For example, to summarize the section next to it.

Especially in the standard SEEMOO template with wide margins, you are encouraged to insert text into the margins. If you decide to do so, plan to have at least one margin note per double page.

¹ <https://www.inf.ethz.ch/personal/markusp/teaching/guides/guide-tables.pdf>

DISASTER	YEAR	COUNTRY	AREA (KM ²)
Nepal earthquake	2015	Nepal	3 610
Cyclone Pam	2015	Vanuatu	12 190
Ludian earthquake	2014	China	1 487
Typhoon Haiyan	2013	Philippines	71 503
Christchurch earthquake	2011	New Zealand	1 426
East Africa drought	2011	East Africa	2 346 466
Tropical storm Washi	2011	Philippines	104 530
Tohoku earthquake	2011	Japan	83 955
Haiti earthquake	2010	Haiti	27 750
Afghanistan blizzard	2008	Afghanistan	652 864
Sichuan earthquake	2008	China	485 000
Cyclone Nargis	2008	Myanmar	676 578

Table 1: Large-scale natural disasters in the last ten years

1.3 SOME EXAMPLE TEXT

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

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Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor.

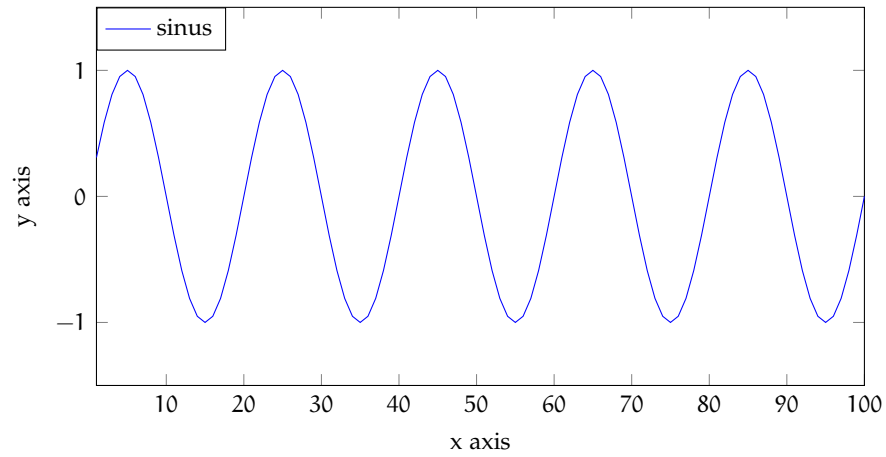


Figure 2: Caption of figure

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RELATED WORK

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DESIGN

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IMPLEMENTATION

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EVALUATION

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DISCUSSION

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CONCLUSIONS

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SOME PROOF

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malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis,
ultrices a, dui.

BIBLIOGRAPHY

- [1] A. D. Wyner. “The Wire-tap Channel.” In: *Bell Systems Technical Journal* 54.8 (1975), pp. 1355–1387.

ERKLÄRUNG ZUR ABSCHLUSSARBEIT

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pursuant to § 22 paragraph 7 and § 23 paragraph 7 of APB TU Darmstadt

I herewith formally declare that I, Name of the Student, have written the submitted Master Thesis independently pursuant to § 22 paragraph 7 of APB TU Darmstadt. I did not use any outside support except for the quoted literature and other sources mentioned in the paper. I clearly marked and separately listed all of the literature and all of the other sources which I employed when producing this academic work, either literally or in content. This thesis has not been handed in or published before in the same or similar form. I am aware, that in case of an attempt at deception based on plagiarism (§ 38 paragraph 2 APB), the thesis would be graded with 5.0 and counted as one failed examination attempt. The thesis may only be repeated once. In the submitted thesis the written copies and the electronic version for archiving are pursuant to § 23 paragraph 7 of APB identical in content.

Darmstadt, January 1, 1337

Name of the Student