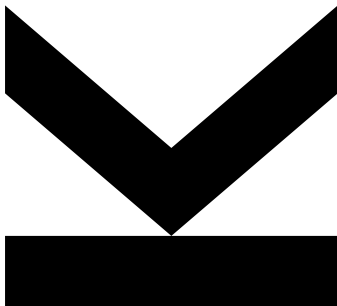# JMU
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January 16, 2025

Space for your report title

Technical Report

Optional space for mentioning e.g. your research lab

Abstract   Space for your (short) abstract.

Space for your revision block, acknowledgements, etc.

Contents

Abstract

Space for your abstract.

1. Introduction

Space for your introduction.

2. Example

This is an example for another section in your thesis. It should primarily show you some basic LaTeX tricks. For instance, section 1 references to your introduction. You can also embed figures, tables, etc. in your work. Figure 1 is an example for a figure (i.e. photos, diagrams, and other artwork). Note that figures (just like tables, see Table 1) are floating elements. They are either placed at the top or bottom of a page (or sometimes stand on their own page), but not in between your text. You can influence their placement with the placement modifiers "t", "b", and "p". Bottom placement ("b") is sometimes more tricky, as LaTeX does not consider this nice in some situations. You can convince LaTeX to honor your placement expectation with "!b" then. Since you do not place figures/tables in between your running text, you always need to reference them by their label (e.g. Figure 1 or Table 1).

You will often reference and quote other works. The source of these citations needs to be marked with the \cite{} command. There are different ways to cite the work of others. These are a few examples:

- The Tor directory authority moria1 shows a voting behavior for the HSDir flag that significantly deviates from that of other directory authorities [1]. Be aware that the \cite command is part of the sentence and, hence, comes before the period.

Figure 1: A figure. Be aware that figures have their caption below the artwork

Table 1: A table. Be aware that tables have their caption above the table

Option	Description
`phdthesis`	PhD thesis
`mathesis`	Master's thesis
`diplomathesis`	Diploma thesis
`bathesis`	Bachelor's thesis
`seminarreport`	Seminar report
`techreport`	Technical report

- Roland [3] proposes a novel attack concept against NFC secure elements in mobile phones.

- Roland and Langer [4] uncovered a flaw in legacy-support of the MasterCard contactless payment protocols that allows an attacker to clone certain credit cards.

- Höller et al. [2] designed an experiment to measure the usage of Tor V3 onion services in a privacy-conscious way. Here we used "et al." because the cited work has more than two authors (\citeauthor will automatically take care of this).

- Höller et al. [1] conclude:

  Ultimately, the high fluctuations in the hidden service directory were caused by a mixture of several issues. First the changed voting behavior of three directory authorities reduced the amount of obtainable votes to six. If any of the remaining six relays went offline – which tends to happen during ongoing DOS attacks – relays needed to obtain five out of five available votes. So any individual measurement failure regarding either bandwidth or uptime led to a withdrawn HSDir flag.

- You sometimes also paraphrase from multiple sources. For that purpose, the \cite command accepts a list of multiple comma-separated references. Do not add spaces inbetween them. Various analyses of the Tor network have been performed recently [1, 2].

3. Conclusion

Space for your summary, central conclusions, and an outlook on potential future work.

References

[1] Tobias Höller, Michael Roland, and René Mayrhofer. 2021. Analyzing inconsistencies in the Tor consensus. In *The 23rd International Conference on Information Integration and Web Intelligence (iiWAS2021)*. ACM, Linz, Austria, (November 2021), 10 pages. DOI: 10.1145/3487664.3487793.

[2] Tobias Höller, Michael Roland, and René Mayrhofer. 2021. On the state of V3 onion services. In *Proceedings of the ACM SIGCOMM 2021 Workshop on Free and Open Communications on the Internet (FOCI '21)*. ACM, Virtual, (August 2021), pp. 50–56. DOI: 10.1145/3473604.3474565.

[3] Michael Roland. 2015. *Security Issues in Mobile NFC Devices. T-Labs Series in Telecommunication Services*. Springer, Cham, (January 2015). ISBN: 978-3-319-15487-9. DOI: 10.1007/978-3-319-15488-6.

[4] Michael Roland and Josef Langer. 2013. Cloning Credit Cards: A combined pre-play and downgrade attack on EMV Contactless. In *7th USENIX Workshop on Offensive Technologies*. USENIX, Washington, DC, USA, (August 2013). https://www.usenix.org/conference/woot13/workshop-program/presentation/roland.

Appendix A. An Appendix

Space for an appendix. You can have more than one appendix section. Appendices are, of course, optional.