Faculty of Engineering Sciences
Heidelberg University

Master Thesis
in Computer Engineering
submitted by
Constantin Nicolai
born in Bretten, Germany
Day/Month/Year Here

YOUR TITLE HERE

This Master thesis has been carried out by Constantin Nicolai
at the
Institute of Computer Engineering
under the supervision of
Holger Fröning

ABSTRACT

Briefly summarize the contents of your work in 150-250 words. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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Nice quote here.

— Some Author

ACKNOWLEDGMENTS

Your acknowledgments here if desired

CONTENTS

1 INTRODUCTION AND MOTIVATION

Introduction to your topic and motivation of your work. Example citation [1] (good book!). Table 1.1 shows an example table and Figure 1.1 an example plot.

Table 1.1: An Example table

Memory [MiB]	Time [s]	Complexity
40	10	∞

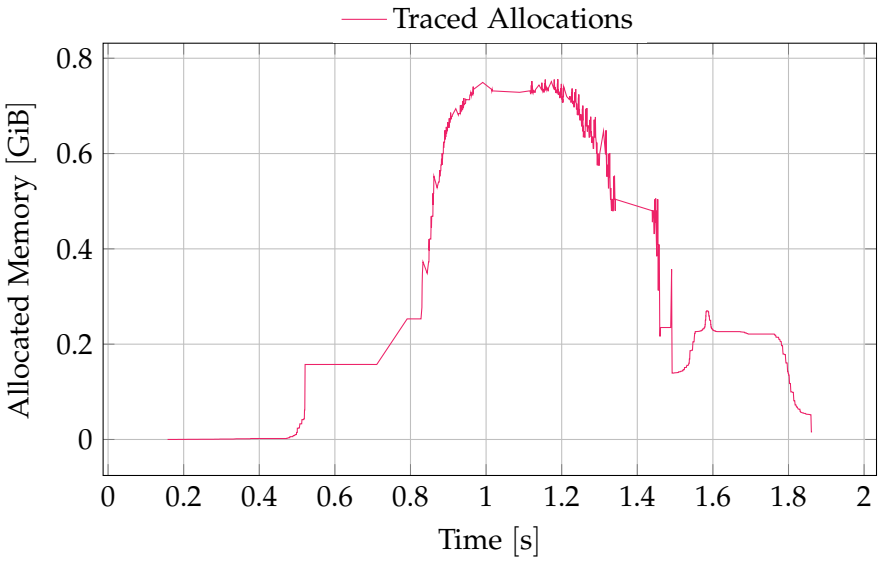

Figure 1.1: An example Figure

2 BACKGROUND

Sponner
metrics: power consumption, latency, memory foorprint
prediction method: ERT extremely randomized trees, with XGBoost
framework: TVM, which I think allows the largest heterogenity of targets
Only inference, since we cannot match this work in any other measure, we at least need to beat it here by also including training

Ying Li: Path Beyond Simulators
metrics: latency
prediction method: wave scaling and MLPs
framework: Pytorch
only inference
killer feature: does not require the GPU for predictions

Daniel Justus: Predicting the Computational
metrics: latency
prediction method: regularized MLP
framework: Tensorflow
inference and training

Geoffrey X. Yu: A Runtime-Based ... Habitat

2.1 TOPIC 1

First topic.

2.1.1 Subsection

Details

2.1.2 Other Subsection

Other details.

2.2 TOPIC 2

Second topic.

3 STATE OF THE ART AND RELATED WORKS

Talk about related works and state of the art, plus possibly problems with SOTA that you are fixing.

4 FIRST CONTRIBUTION

First contribution here.

4.1 SECTION

A section.

4.1.1 Subsection 1

Details.

4.1.2 Subsection 2

Yet another detail.

5 SECOND CONTRIBUTION

The second contribution goes here.

6 DISCUSSION AND OUTLOOK

Summary and discussion of the results and outlook/future work.

a | APPENDIX

Appendix here

BIBLIOGRAPHY

[1] Christopher M. Bishop. *Pattern Recognition and Machine Learning*. Information Science and Statistics. New York: Springer, 2006. 738 pp. ISBN: 978-0-387-31073-2.

ERKLÄRUNG

Ich versichere, dass ich diese Arbeit selbständig verfasst habe und keine anderen als die angegebenen Quellen und Hilfsmittel benutzt habe.

Heidelberg, den Day/Month/Year Here

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Constantin Nicolai