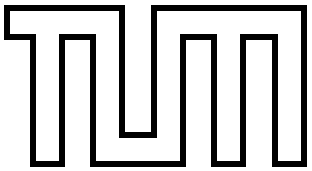

FAKULTÄT FÜR INFORMATIK

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Adding C++ Support to MBEDDR

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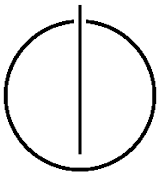

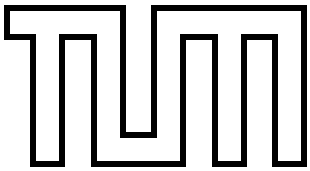

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C++ Unterstützung für MBEDDR

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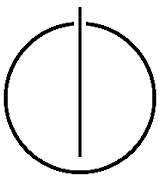
Date:	September 15, 2013



Ich versichere, dass ich diese Diplomarbeit selbständig verfasst und nur die angegebenen Quellen und Hilfsmittel verwendet habe.

München, den 15. September 2013 Zaur Molotnikov

Acknowledgments

If someone contributed to the thesis... might be good to thank them here.

Abstract

An abstracts abstracts the thesis!

Contents

Outline of the Thesis

Part I: Introduction and Theory

CHAPTER 1: INTRODUCTION

This chapter presents an overview of the thesis and it purpose. Furthermore, it will discuss the sense of life in a very general approach.

CHAPTER 2: THEORY

No thesis without theory.

Part II: The Real Work

CHAPTER 3: OVERVIEW

This chapter presents the requirements for the process.

Part I.

Introduction and Theory

1. Introduction

Here starts the thesis with an introduction. Please use nice latex and bibtex entries [1]. Do not spend time on formating your thesis, but on its content.

1.1. Latex Introduction

There is no need for a latex introduction since there is plenty of literature out there.

Part II.

The Second Part

2. Structure

Here the structure is going to be given

2.1. Structure Itself

Structure, now as a list

1. Problem description
    a) DSLs and Projectional Editing
    b) MBEDDR Project
    c) C++ Support in MBEDDR (motivation)
    d) Related Work
2. Extending mbeddr with C++
    a) Differences between C and C++
        i. Reference Type and Boolean Type
        ii. Modules Support
        iii. Object Oriented Approach Support
    b) Classes and Member Access Control
        i. Access Control in Class
        ii. Inheritance and Access Control
        iii. Friends
    c) Namespaces
        i. Namespace Resolution Operation
        ii. Member Search Strategy
        iii. Reenterability
    d) Operator Overloading
        i. Extension of Type System
        ii. ... More here ...
    e) Templates
        i. Textual Nature of Templates in C++
        ii. Concepts

3. Evaluation
4. Conclusion

Appendix

A. Detailed Descriptions

Here come the details that are not supposed to be in the regular text.

Bibliography

[1] Leslie Lamport. *LaTeX : A Documentation Preparation System User's Guide and Reference Manual*. Addison-Wesley Professional, 1994.