1 Introduction

1.1 Practical Problem

1.2 Example

1.3 Scientific Problem

1.4 Solution

1.5 Benefits and Research Hypotheses

1.6 Research Approach

1.7 Summary

1.8 Outline

2 Foundations and Meta-Models

2.1 Software Architecture

2.1.1 Definition and Role of Software Architecture

2.1.2 Architectural Elements

2.1.3 Architectural Element Types

2.1.4 Architecture Documentation

2.2 Software Project Plans

2.2.1 Definition and Role of Software Project Plans

2.2.2 Work Breakdown Structure

2.2.3 Project Schedule

2.2.4 Development Process

2.2.5 Software Project Organization

2.2.6 Resource Plan

2.2.7 Project Plan Documentation

3 Software Production

3.1 Definition of Software Production

3.2 Software Production Life-Cycle

3.3 Software Production Scenarios

3.3.1 Single Systems with repeating Production Sequences

3.3.2 Producing similar Systems in a specific Domain

3.3.3 Product Line Engineering with a pre-defined Scope

3.4 Software Production Meta-Model

3.4.1 Software Production Plans

3.4.2 Software Production Processes

3.4.3 Integrated Software Production Meta-Model

3.5 Software Production Example