

Evolution in Model-Driven Engineering

Louis M. Rose

October 9, 2009

Contents

1	Introduction	5
1.1	Model-Driven Engineering	5
1.2	Software Evolution	5
1.3	Research Aim	5
1.4	Research Method	5
2	Background	7
2.1	Related Areas	7
2.2	Categories of Evolution in MDE	7
3	Literature Review	9
4	Analysis	11
4.1	Locating Data	11
4.2	Analysing Existing Techniques	11
4.3	Requirements Identification	11
5	Implementation	13
5.1	Metamodel-Independent Syntax	13
5.2	Human-Usable Textual Notation	13
5.3	DSL for Migration Strategies	13
6	Evaluation	15
6.1	Case Study	15
6.2	Publications	15
6.3	Delivery through Eclipse	15
6.4	Limitations	15
7	Conclusion	17

Chapter 1

Introduction

1.1 Model-Driven Engineering

1.2 Software Evolution

1.3 Research Aim

1.4 Research Method

Chapter 2

Background

2.1 Related Areas

2.2 Categories of Evolution in MDE

Chapter 3

Literature Review

Chapter 4

Analysis

4.1 Locating Data

4.2 Analysing Existing Techniques

4.3 Requirements Identification

Chapter 5

Implementation

5.1 Metamodel-Independent Syntax

5.2 Human-Usable Textual Notation

5.3 DSL for Migration Strategies

Chapter 6

Evaluation

6.1 Case Study

6.2 Publications

6.3 Delivery through Eclipse

6.4 Limitations

Chapter 7

Conclusion