

Master Thesis
Computer Science
Thesis no: MCS-20YY-NN
MM YYYY



Centered Title Times Font Size 24 Bold

Centered Subtitle Times Font Size 16 Bold

Firstname Lastname

Dept. Computer Science & Engineering
Blekinge Institute of Technology
SE-371 79 Karlskrona, Sweden

This thesis is submitted to the Department of Computer Science & Engineering at Blekinge Institute of Technology in partial fulfillment of the requirements for the degree of Master of Science in Computer Science. The thesis is equivalent to XX weeks of full-time studies.

Contact Information:

Author(s):

Firstname Lastname

E-mail: acroyy@student.bth.se

University advisor:

Prof. Firstname Lastname

Dept. Computer Science & Engineering

Dept. Computer Science & Engineering
Blekinge Institute of Technology
SE-371 79 Karlskrona, Sweden

Internet : www.bth.se/didd
Phone : +46 455 38 50 00
Fax : +46 455 38 50 57

Abstract

Context. Strategic release planning (sometimes referred to as road-mapping) is an important phase of the requirements engineering process performed at product level. It is concerned with selection and assignment of requirements in sequences of releases such that important technical and resource constraints are fulfilled.

Objectives. In this study we investigate which strategic release planning models have been proposed, their degree of empirical validation, their factors for requirements selection, and whether they are intended for a bespoke or market-driven requirements engineering context.

Methods. In this systematic review a number of article sources are used, including Compendex, Inspec, IEEE Xplore, ACM Digital Library, and Springer Link. Studies are selected after reading titles and abstracts to decide whether the articles are peer reviewed, and relevant to the subject.

Results. 24 strategic release planning models are found and mapped in relation to each other, and a taxonomy of requirements selection factors is constructed.

Conclusions. We conclude that many models are related to each other and use similar techniques to address the release planning problem. We also conclude that several requirement selection factors are covered in the different models, but that many methods fail to address factors such as stakeholder value or internal value. Moreover, we conclude that there is a need for further empirical validation of the models in full scale industry trials.

Keywords: 3-4 keywords, maximum 2 of these from the title, starts 1 line below the abstract.

Contents

| | |
|--------------------------------------|----------|
| Abstract | i |
| 1 Introduction | 1 |
| 2 Related Work | 2 |
| 3 Method | 3 |
| 4 Results | 4 |
| 5 Analysis | 5 |
| 6 Conclusions and Future Work | 6 |

Chapter 1

Introduction

Chapter 2

Related Work

Chapter 6

Conclusions and Future Work

References