Testing self-adaptive systems - an overview

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1 Abstract

During the past years, the requirements for software-systems have changed dramatically. Software now often needs to be self-adaptive. This also leads to a different process of development. One important aspect of developing software is testing. Due to the unflexibility of traditional tests, there is a need for new testing-methods. There are some approches, that target this problem. What is missing is an overview about them.
Therefor we want to categorize, shortly describe and evaluate the different ideas, that exist in current literature.
In order to find as many different approches as possible, we apply the snowballing-method during our research and we structure them using different categorization techniques.
The outcome of our research will be a taxonomy and an evaluation of state of the art testing techniques for self-adaptive systems.

Keywords: self-adaptive systems; system testing

2 Introduction

3 Method and result

3.1 self-testing

3.2 model-based testing

4 Evaluation

5 test

“hello world“
asdfasdf [1] [**?**]

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