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Abstract

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Contents

Chapter 1

Introduction

La Figure 1.1 è una figura di esempio.

Figure 1.1: Questa è una immagine di esempio

Things to add:

- Types of test coverage

Test case generation can be seen as a multi-objective problem, given that the goal is to cfover multiple test targets.

Search-based approaches for test case generation use optimization algorithms to attempt to find the best candidate test case with the objective to maximize fault detection. Genetic Algorithms (GAs) are an example of an evolutionary search approach for test case generation; starting from an initial, often randomlly genrated, population of test cases, the algorithm keeps evolving the individuals according to simulated natural evolution theory principles. In this context, a typical fitness function of a GA would measure

the distance between the execution trace of the generated test cases and the coverage targets.

Chapter 2

Literature

DynaMOSA, Dynamic Many-Objective Sorting Algorithm [1] is an approach that focuses Traditionally, with evolutionary search-based approaches, the algorithm is applied multiple times, once for each coverage criterion; doing so may

Chapter 3

Conclusions

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