Automated Summarization of Tests

Description

Recent years, automated test case generation tools have been widely applied in software testing. Despite of the great success, the automated generated test cases still suffer from issues such as a) poor readability due to uninformative identifiers and variable names and b) poor comprehensibility due to lack of documentation [3]. This seminar targets mainly at the latter issue. Several approaches [1, 2, 3] have been proposed to tackle this issue by summarizing different aspects covered by the test cases (e.g. code portion [2] or methods [1] exercised by a test case) at different levels (i.e. class-level, test-case-level, and statement-level).

In this seminar, the student is required to examine and discuss the state-of-art approaches that automatically summarize test cases. The student should compare different approaches and give insights into future research.

References


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