Abstract

Code coverage analysis holds a very important role in software testing procedure. By the test case runs it provides developers by means to quantify of how well their source code is being exercised. By detecting errors/bugs in the code it estimates the efficiency of the test. We must implement a systematic way and support the theoretical bases for testing the programs with the purpose of performing effective software testing and coverage analysis. In our research we use the crossword application where we automatically make test cases and systematically discover the impact of context, as captured by criterion functions which we described in our source code. Our studying demonstrates that by increasing the event combinations tested and by organizing the comparative positions of events defined by the new criteria, we can become aware of a large number of faults that were undetectable by earlier techniques. In this paper we are implementing the event based test case generation by the use of object oriented and aspect oriented event based test case generation. Before this we have used the GUI based test case generation as an existing work. The experimental result shows that our proposed work test case generation process providing better code coverage range when compared with the existing work.
Generating Object-Oriented and Aspect-Oriented Sequence based Test Cases with Optimum Code Coverage

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Index Terms
Keywords
- Code Coverage
- Aspect oriented testing
- Object oriented testing
- GUI testing
- Automated testing
- Test case generation
- Testing Process