Abstract

As the software modified, new test cases are added to the test suits, the test suite grows and the cost of regression testing increases. This paper defines a technique to solve these problems and make the testing cost effective. We introduce a set of test case comparison metrics algorithms which will quantitatively calculate the diversity between any arbitrary test case pair of an existing test suite. Our procedure mainly focuses on branch coverage criteria, control flow of a program, variable definition-usage and data values. By using these
information's a signature values is calculated to find how much the test cases are diverse from each other and accordingly we can make a cluster of similar test cases together, that can effectively test under time constraints.

References


Index Terms

Computer Science
Software Engineering

Keywords
Testing Program Testing Regression Testing Test Suite Test Case Test Suite Reduction Fde.