Abstract

Regression Testing is performed after modification of the program or software; it classified the existing test cases into re-used test cases and affected test cases after modification of the code. Test case prioritization is an approach of arranging the existing test cases in manner that most affected test cases (that generated maximum number of faults) test first after the other one. There are many techniques used for prioritization test cases at the time of regression testing. This paper present a new approach for prioritization of test cases using static executable program slices for regression testing. Program slicing is a process to classify the program into number of parts based on various types of dependencies between program statements. This paper presents an overview of basic concept of generating static program slices and on the basis of these programs slices prioritization of test cases at the time of regression testing.
Static Program Slicing - An Efficient Approach for Prioritization of Test Cases for Regression Testing

25, 1982, pp. 446-452.
14. Unravel Project http://hissa.nist.gov/unravel/Wisconsin Program slicing project

Index Terms

Computer Science
Software Engineering

Keywords

Regression testing, Program dependency, static program slices, test cases prioritization and execution history