Regression testing is a software testing technique. Testing and validating the part of code are the activity performed within different phases. Tasks of regression testing are: Test Case Prioritization, Test Suite Selection, Test case reduction which give the guarantee that no intended fault is produced while modifying the code. This paper hybrid all the criteria's in different prospective with existing techniques. Selecting and choosing minimum number of test cases according to the result is our major goal. It will give solution to certain unnecessary results found after testing that further seem to be diminished in execution time. In our work we are formulizing the swarm algorithm for hybrid criteria. Hybrid criteria use Rank, Merge and Choice for building the test cases from test suite for minimizing the redundancy. Branch technique is used if one of test cases fails or does not show any result then next option can be used. Swarm algorithms give additional functions for having effective result with less time and effort. Initial seed value for hybrid criteria's is taken randomly. This research will lead to give better efficiency in regression testing using hybrid criteria. Path Coverage deals with the test case selection as it gives all the details of test cases.
Regression Testing Prioritization, Selection and Reduction using Hybrid Criteria

- Lulia STEFAN , Liviu MICLEA 2012. The Usage of Contextual Information to Develop the Data Test Vector. Automated Department.

**Index Terms**

Computer Science

Information Sciences

**Keywords**

Rank  Merge  Choice  Average Percent Fault Detection