Test case prioritization techniques schedule test cases to reduce the cost of regression testing and to maximize some objective function. Test cases are prioritized such that those test cases which are more important under some criteria are executed earlier in regression testing process. The various objective functions are applicable as a metric of how rapidly faults are discovered during the testing process like rate of fault detection. Therefore, prioritization techniques are effective when implemented for specific instances. In this paper, a novel classification for test case prioritization is made which may cover every concept or measure and contribute for improvement of regression testing process.

References

- [tutorialpoint. Online]. www.tutorialspoint.com/software_testing
- Avritzer and E. Weyuker., &quot;The automatic generation of load test suites and the assessment of the resulting software,&quot; IEEE Transactions on Software Engineering, vol. 21, no. 9, pp. 705-716, December 1995.
- Fraser G, Wotawa F, &quot;Property relevant software testing with model-checkers,&quot; SIGSOFT Software Engineering Notes , vol. 31, no. 6, pp. 1-10, 2006.
- Alexey G. Malishevsky, Gregg Rothermel, Sebastian Elbaum, &quot;Modeling the Cost-Benefits Tradeoffs for Regression Testing Techniques,&quot; in International Conference on Software Maintenance, 2002.

**Index Terms**

Computer Science  
Software Testing

**Keywords**

Test case  Test Case Prioritization  test case prioritization techniques