Abstract

In software development life cycle, maintenance phase is an important phase as it deals with the activities like error correction, updation, deletion and optimization of software capabilities. For this reason, regression testing is required in order to revalidate the modifications in the software. It is an expensive process. Various techniques of performing regression testing are available. Software testers can select the technique that suit their requirement as well as optimize the basic cost and time factors. This paper mainly discusses various test case prioritization techniques for regression testing presented by various researchers and the various search algorithms used in the test case prioritisation process.
- Hema Srikanth, Laurie Williams, "Requirements-Based Test Case Prioritization;"
- Sujata, Mohit Kumar, Dr. Varun Kumar, Requirements based Test Case Prioritization using Genetic Algorithm; International Journal of computer science and technology Vol 1, 1, IS Su e 2, December 2010.
- Jung-Min Kim, Adam Porter, "A History-Based Test Prioritization Technique for Regression Testing in Resource Constrained;"
- Alexey G. Malishevsky, Joseph R. Ruthruff, Gregg Rothermel, Sebastian Elbaum; Cost-cognizant Test Case Prioritization; Technical Report TRUNL-CSE-2006-0004, Department of Computer Science and Engineering, University of
Nebraska – Lincoln, 2006.

**Index Terms**

- **Computer Science**
- **Software Engineering**

**Keywords**

- Regression testing
- Test case prioritization
- algorithms
- Requirement Based Test Case Prioritisation
- Chronographic
- Hybrid