Abstract

In software development life cycle, maintenance phase is an important phase as it deals with the activities like error correction, upgradation, 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.

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**Index Terms**

Computer Science  
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**Keywords**

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