Abstract

The recent technological advancement and complexity of software makes it very difficult to maintain and improve the quality of software. Software testing is a technique used in validating and verifying that a develop software meets its requirements and specification hence the need to properly generate suitable test case to test programs. Software testing consumes a lot of time, effort and money, therefore the focus of testing largely depends on test case generation, execution and evaluation. Automated testing is a technique used to maximize test coverage, detect more errors, increase test execution, decrease cost as well as improving the quality of software. This paper reviews the use of Genetic algorithm to automatically generate test case using the random method.

References


11. N. Kaushik, K. Choudhary, and N. S. Yadav, "Year of Publication: 2016."


Review of Genetic Algorithm and Application in Software Testing

Computational Intelligence., Proceedings of the First IEEE Conference on, 1994, pp. 82-87.
70. A. Sharma, R. Patani, and A. Aggarwal, "SOFTWARE TESTING USING GENETIC ALGORITHMS."
85. A. Rauf, S. Anwar, M. A. Jaffer, and A. A. Shahid, "Automated GUI test coverage


Index Terms

| Computer Science | Software Engineering |

Keywords

Automated Testing; Genetic Algorithm; Evolutionary Algorithms; Random Testing; Test Case