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 it requirements and specification hence the need to properly generate suitable test case to test programs. Software testing consumers 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

Review of Genetic Algorithm and Application in Software Testing

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


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