Regression testing re-executes the test cases to validate that changes made in software does not affect the correct functionality inherited from previous version. Due to limited time and resources, test cases are prioritized based on some criteria such that important test cases are executed within testing period. The work proposes a genetic algorithm based prioritization technique, which intelligently reorders the test cases on maximum fault detection rate. The work paves the way of genetic algorithms in regression testing.

References

4. IEEE std. definition of Regression Testing.
Index Terms

Computer Science

Algorithms

Keywords

Regression Testing, Test Case Prioritization, Genetic Algorithms.