Abstract

This paper proposed software testing system by using Artificial Intelligent techniques. In today's scenario, Software Testing is a critical issue in software development and maintenance for increasing the quality and reliability of the software. In Software Testing, regression testing is often performed and researchers are finding ways to reduce the regression testing cost. In this paper, an approach is proposed which draws inspiration from Swarm Intelligence to reduce test suite for regression testing. This approach will strive to get the best optimal solution and contribute a lot in considerably reducing the testing cost, efforts and time of regression testing.

References

- Ding Rui, Feng Xianbin, Li Shuping, Dong Hongbin (2012) "Automatic Generation of Software Test Data Based on Hybrid Particle Swarm Genetic Algorithm", IEEE
Software Testing using Intelligent Technique

Symposium on Electrical & Electronics Engineering (EEESYM), Mudanjiang, Kuala Lumpur, pp. 670 – 673.
- http://www.IJCSI.org/ Proposed Software Testing Using Intelligent techniques (Intelligent Water Drop (IWD) and Ant Colony Optimization Algorithm (ACO))
Index Terms

Computer Science    Artificial Intelligence

Keywords

Ant Colony Optimization  Pheromone  Swarm intelligence  Genetic algorithms
Simulated Annealing Algorithms

Bee Colony Optimization
Test Case Prioritization
Test Case Selection.