Abstract

Test case prioritization involves scheduling test cases so that the performance of software testing can be improved. Thus resulting in high quality software with minimum faults and errors[12]. Therefore in this paper, model based test case prioritization using Memetic algorithm, is proposed for giving an all-purpose solution in prioritization and optimization problem which can be used efficiently. A model based testing method is introduced. This method can prioritize test case using activity diagram and genetic algorithm. The result shows that using this method with Memetic algorithm (MA) provide efficiency and accuracy for test cases [3].

References

1. 1st Conference on Swarm Intelligence and Evolutionary Computation (CSIEC2016), Higher Education Complex of Bam, Iran, 2016
2. P. Mahali and A. A. Acharya, "Model Based Test Case Prioritization Using UML Activity

4. Genetic Algorithm for Solving Simple Mathematical Equality Problem Denny Hermawanto Indonesian Institute of Sciences (LIPI), INDONESIA


11. Fatemeh Mosala Nejad “using memetic algorithm for test case prioritization in model based software testing.” 1st Conference on Swarm Intelligence and Evolutionary Computation (CSIEC2016), Higher Education Complex of Bam, Iran, 2016.


**Index Terms**

Computer Science  
Information Sciences

**Keywords**

Software testing- Genetic Algorithm (Base Algorithm), Memetic Algorithm (Derived from GA)  
Activity Diagram, nodes and edges, objective function, fitness function, test case, SDLC, prioritization