Abstract

This paper presents the technique to generate test cases from UML State diagram, that is based on path oriented approach. Genetic algorithm is used with stack based approach to get the optimized feasible test cases. Generated test cases are effective, efficient and optimized.

References

- Chow T. S. , "Testing software design modeled by Finite state machines", 

- http://www. mathcs. gordon. edu/courses/cps211/ATMExample/Statecharts. html

**Index Terms**

Computer Science  
Software Engineering

**Keywords**

Test Case Generation; UML Statechart Diagram; Genetic Algorithm; Extended Finite State Machine.