Abstract

Software testing plays a crucial role in software development life cycle. Without testing, quality of software product is questionable. Mutation testing, widely accepted fault based testing technique. Aspect Oriented Programming is a new methodology that introduces the concept of modularization. AspectJ is an aspect oriented programming language that provides the concept
of pointcut and advice. With new features, AOP introduces new faults that can be easily handled by mutation testing. In this paper, we evaluate the available AspectJ based mutation testing tools and identify the basic requirements that must be satisfied by any developed tool.

Reference

- Jeff Offutt, Yu-Seung Ma and Yong-Rae Kwon, “The Class-Level Mutants of MuJava”, Workshop on Automation of Software Test (AST 2006). pages 78-84, Shanghai, China, May 2006,
Accessing and Evaluating AspectJ based Mutation Testing Tools


- S. C. P. F. Fabbri, J. C. Maldonado, P. C. Masiero, and M. E. Delamaro, “Proteum/FSM:

Index Terms

Computer Science
Software Engineering

Key words
Mutation testing
Automated Mutation Testing tool
Fault based mutation testing tool
Mutation testing tool for AspectJ
AOP based Mutation testing tool