Abstract

Software testing is an activity which is aimed for evaluating quality of a program and also for improving it, by identifying defects and problems. Software testing strives for achieving its goals (both implicit and explicit) but it does have certain limitations, still testing can be done more effectively if certain established principles are be followed. In spite of having limitations, software testing continues to dominate other verification techniques like static analysis, model checking, and proofs. So it is indispensable to understand the goals, principles and limitations of software testing so that the effectiveness of software testing could be maximized.

Reference
- James Bach, “Exploratory Testing Explained”, v.1.3 4/16/03.
- Programming Research Ltd, “Static and Dynamic Testing Compared”.
- Rajat Kumar Bal,"Software Testing".

Index Terms

Computer Science
Algorithms

Key words
Software Testing
Testing goals
Testing principles
Testing Limitations