Abstract

The most effort seeking job in software testing is the generation of test cases. The success of testing pursuit highly depends on the effectiveness of the test cases. Various approaches have been proposed to ease the task of test case generation and to perform software testing. It has witnessed a paradigm shift from manual test case generation to automated test case generation in the recent time. Search Based Software Testing (SBST) has evolved as a new domain in software testing. This paper reviews the various Search Based Software Testing approaches, foresees trends in the research being conducted in this area and explores the new possibilities which future of the software testing envisages. This paper presents an exhaustive survey on Search Based Software Testing and also touches upon the other disciplines of modern day computing which seamlessly overlap with SBST.
Review of Search based Techniques in Software Testing


Index Terms

Computer Science

Software Engineering
Keywords

Software Testing    Model Based Software Testing    Test Case Generation

Approaches