Introduction to Data Flow Testing with Genetic Algorithm

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Abstract

Control flow diagrams are a keystone in testing the structure of software programs. With the help of control flow between the various components of the program, we can select the test cases in a particular domain. In this paper, we introduced a window-based tool for generating the CFG of a C Program automatically. The data flow testing, i.e., control flow testing depends on all def-use of the variables. So selecting the test cases for a particular data flow diagram is not an easy task. In this paper genetic algorithm has been used to generate the test cases automatically for data flow testing.

References


**Index Terms**

Computer Science           Software Engineering
Keywords