Software Engineering Seminar

Dynamic Program Slicing for Fault Localization

Description

In large software systems, keeping track of control and data flow is a very hard task. To this end, *program slicing* allows the developer to concentrate on the important parts of the program under consideration by essentially hiding other parts of the program that are not relevant to the problem at hand. That means: parts of a program that are not influenced by a chosen set of variables, or parts that do not, themselves, influence a specific variable or a set of variables are simply not shown to the user.

Various variants of program slicing (e.g. static, dynamic, . . . ) have been proposed so far. The aim of this topic is to examine and discuss techniques that employ dynamic program slicing to improve automated fault localization.

References


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