Abstract Details

Title: Testing Abstract Data Types: A Formal Goal Oriented Approach

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Abstract: Whereas software testing is known to be able to prove the presence of faults, but not their absence, it can also be used to build a statistical argument regarding the likelihood of failure free operation. In this paper, we elaborate on this argument to present a testing method that is part of an integrated software validation process, whereby testing and proving methods play complementary roles in advancing product quality.

Keywords: Software testing, program proving, program specification, test oracle, software tools.