



Fall 2007 CIS Distinguished Lecture

Come Out, Come Out, Wherever You Are (Predicting Where Faults are Hiding)

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Abstract

Paper Title: "Some Progressive Ideas on Regression Testing"
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All software systems evolve, and there are many causes for this evolution. Some changes are attributable to fault identification and location, some are due to specification or requirement changes, some are based on a changing customer base or usage patterns. Regardless of the source of the changes, and regardless of how stable the software has been, it is always necessary to do some amount of additional testing as a result of any type of system modification.

Historically, the term regression testing was introduced to indicate that retesting of software was being performed in order to verify that the software had not "regressed" in the sense that changes in the software or specification had caused portions of the software that functioned properly at one time on a given set of test cases, to function improperly. In this paper, we broaden the use of the term "regression testing" to include any retesting of software during maintenance whether or not the software has been modified, and regardless of why it has changed. As long as some facet of the observable behavior of a software system has changed, retesting must be done, and this will be referred to in this paper as regression testing.

In this paper we concentrate on a foundational investigation of regression testing, and discuss various ways of categorizing regression testing criteria.

Location: Tech Center Room 111
Time: 3:30-4:30PM, Wednesday, 11/14/2007
Refreshments will be served.