

Generalized Algorithmic Debugging and Testing

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This paper presents a method for semi-automatic bug localization, generalized algorithmic debugging, which has been integrated with the category partition method for functional testing. In this way the efficiency of the algorithmic debugging method for bug localization can be improved by using test specifications and test results. The long-range goal of this work is a semi-automatic debugging and testing system which can be used during large-scale program development of nontrivial programs.

The method is generally applicable to procedural languages and is not dependent on any ad hoc assumptions regarding the subject program. The original form of algorithmic debugging, introduced by Shapiro, was however limited to small Prolog programs without side-effects, but has later been generalized to concurrent logic programming languages. Another drawback of the original method is the large number of interactions with the user during bug localization.

To our knowledge, this is the first method which uses category partition testing to improve the bug localization properties of algorithmic debugging. The method can avoid irrelevant questions to the programmer by categorizing input parameters and then match these against test cases in the test database. Additionally, we use program slicing, a data flow analysis technique, to dynamically compute which parts of the program are relevant for the search, thus further improving bug localization.

We believe that this is the first generalization of algorithmic debugging for programs with side-effects written in imperative languages such as Pascal. These improvements together makes it more feasible to debug larger programs. However, additional improvements are needed to make it handle pointer-related side-effects and concurrent Pascal programs.

A prototype generalized algorithmic debugger for a Pascal subset without pointer side-effects and a test case generator for application programs in Pascal, C, dBase, and LOTUS have been implemented.

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General Terms: Algorithms, Experimentation, Performance

Additional Key Words and Phrases: Algorithmic debugging, automated debugging, category partition testing, program slicing

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aug 5 2023 datant de 1885 les puces de saint ouen sont composées de 11 marchés avec plus 2000 stands et boutiques répartis sur 7 hectares vous y trouverez des antiquités classiques ou des marchandises haut de gamme restaurées telles que mobilier tableaux bronzes objets d'art ou bien tapisseries miroirs luminaires vaisselle

la fête des puces de saint ouen 2023 sortiraparis com - Feb 12 2023

les puces de saint ouen font la fête du 5 au 9 octobre 2023 cette année le thème la nature dans les arts décoratifs ramène une vague déco colorée et fantaisie à travers les étals du

promenade aux puces de saint ouen paris zigzag - Aug 06 2022

la chope des puces 122 rue des rosiers 93400 saint ouen ouvert du vendredi au lundi 9h 16h en semaine 9h 19h le week end

un petit creux les accras d antilles grillade ce restaurant antillais sert parmi plusieurs spécialités de la région de délicieux accras de morue après une après midi à parcourir les puces on aurait presque