عنوان فارسی مقاله:

اولویت بندی مورد آزمایشی براساس الگوریتم زننده و پوشش نقاط آزمایش

عنوان انگلیسی مقاله:

Test Case Prioritization Based on Genetic Algorithm and Test-Points Coverage

توجه!

این فايل تنها قسمتي از ترجمه ميباشد. برای تهيه مقاله ترجمه شده كامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگليسي مقاله، اينجا كليك فايلش.
5 Conclusion

The use of genetic algorithms in test case prioritization, can effectively reduce the blindness in test cases executed order and so improve the efficiency of software testing.

This paper proposed a new test case prioritization evaluation APRC and its improvement APRC_C for functional testing. As focused on test-points coverage, these evaluations are more suitable for black-box testing.

In addition, this paper presented an automated test case prioritization method using of genetic algorithms which adopted APTC or APTC_C as fitness function. The designs of representation, selection, crossover and mutation in GA are aimed at black-box testing. We gave the specific steps of the method and validated it by experimental data.

The experimental results show that the proposed method can achieve expected results. It provides an effective technical approach to the test case prioritization problem. In the future, we will do further research in test-points automatically conversation and applications of GA in the automated generation of black-box test cases.