Critical Review on Test Case Generation Systems and Techniques

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Abstract

Software testing has valuable and important place in software development life cycle. It is used to identify the quality and good performance of software. For the software testing phases we have to need the proper test case. Test case may be generated manually and automatically. Generating test case manually will take more time and cost. Automatic test case generation will reduce time and cost. This paper combine review on test case generation systems, object oriented, and procedure oriented and component based development and agent oriented system. This paper also gives the overview on the techniques which is used to generate the test case.

References


7. Yacine Kissoum and Zaidi Sahnoun “Test case generation for multi-agent system using formal specification”


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36. Heumann, J., “Generating test cases from use cases” Rational Software.
   http://www.ibm.com/developerworks/rational/library/content/RationalEdge/jun01/GeneratingTest
   CasesFromUseCasesJune01.pdf.
37. El-Far, I.K. and J.A. Whittaker, “Model based software testing”
   http://143.225.25.115/~flammini/materiale/Model-based%20Testing/ModelBasedSoftwareTestin
   g.pdf. 2001.
40. Sinha, A. and C.S. Smidts, “Domain specific test case generation using higher ordered
   Martins and O.C. Lopes, “A practical approach for automated test case generation using state
   charts.” Proceedings of the 30th Annual International Computer Software and Applications
42. Shams, M., D. Krishnamurthy and B. Far, “A model based approach for testing the
   performance of web applications” Proceeding of the 3rd International Workshop on Software
   model- driven architecture.” Proceeding of the Second International Workshop on Automation of
   Software Test, May 20-26, Minneapolis, USA, 2007, 150-151.
44. Reza, H., K. Ogaard and A. Malge “A model based testing technique to test web
   applications using state charts” Proceeding of 5th International Conference on Information
45. Avrizer, A. and E.J. Weyuker, “The automatic generation of load test suites and the
   16: 870-879.
   testing tools for web application” 11th Software Engineering and Knowledge Engineering
   Germany Leipzig Univ., Germany, pp: 28-33.
   applications” Proceeding of the 23rd IEEE/ACM International Conference on Automated

Index Terms

Computer Science

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Keywords

test case generation, techniques, specification based, sketch diagram based, source code based, systems, object oriented, agent oriented, service oriented, component base software.