Abstract

In the present scenario, software industries are facing lots of challenges and difficulties for software reliability. Test and measurement can be considered as reliable if they are producing same results over repeated time of quality testing. Software reliability acts an important role in the development of software in Software Development Life Cycle. There are so many factors and issues in SDLC that can affect the software reliability. Object oriented metrics provide a quantitative basis for planning and measuring software development process. Object oriented software design supports some of the basic design principals as encapsulation, cohesion, coupling and inheritance. This research paper is focusing on functionality and effectiveness of
design phase which influence the software reliability in the object oriented software and of course, object oriented metrics determine how these matrices can reduce the faults and can increase the reliability of software.

References

- Application of Neural Networks for Estimating Software Maintainability Using Object-Oriented Metrics Mie Mie Thet Thwin, Tong-Seng Quah School of Electronic & Electrical Engineering Nanyang Technological University.
- Application of Artificial Neural Network for Predicting Maintainability using Object-Oriented Metrics K. K. Aggarwal, Yogesh Singh, Arvinder Kaur, and Ruchika Malhotra.
- Pandey, Asheesh and Ahlawat, Anil: "Reliability and Maintainability of Software using object oriented metrics by artificial neural network," IJEMT, Vol. 1, Issue 1, March
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