Abstract

For the critical business application, continuous availability is the requirement, and software reliability is an important component of continuous application availability. Reliability implies probability. Program may contain no error and its reliability is unity. If the program contains error then its reliability is zero. Need of complex system is increased more rapidly. In early 1970s Software also become a matter of concern primarily due to a continuing increase in the cost of Software relative to hardware in both the development and the operational phase of the system. Software is essential in instrument for transforming a discrete set of inputs into a discrete set of output. Since, Software is produced by humans; the finished product is often imperfect. Therefore, Software Reliability is important and measuring technique to detect the failure. There has lot of work done in field of software reliability estimation.

References

2. Chandrasekhar Rajaraman, Michael R. Lyu, Reliability and Maintainability Related Software Coupling Metrics in C++ Programs
5. Dr. Linda Rosenberg Ted Hammer, Jack Shaw. Software metrics and reliability,

Index Terms

Computer Science
Software Engineering

Keywords

Software Reliability (SR), software reliability metrics, software measurement, and complexity metrics