

## *Reliability Estimation Of Object Oriented Design Complexity Perspective*







### **Reliability Estimation Of Object Oriented**

A Maintainability Estimation Model and Metrics for Object-Oriented Design (MOOD) Kiranjit Kaur M.tech, research work, Software Engineering. Sami Anand Asst. Prof.(L.P.U.) M.tech ,member of IEEE&IEEE Computer Society, research work in area of Network Security and Software Engineering..

### **A Maintainability Estimation Model and Metrics for Object ...**

In this paper, a metrics based reliability estimation model for object oriented design has been developed. A suit of design metrics useful in measuring Reliability of software has been identified.

### **Reliability Estimation of Object-Oriented Software: Design ...**

MATHEMATICALLY Reliability is Inversely Proportional to WMC Reliability is Inversely Proportional to RFC Reliability is Inversely Proportional to DIT Estimating Reliability of Software System Using Object-Oriented Metrics 287 Reliability is Inversely Proportional to LCOM Reliability is Inversely Proportional to CBO Reliability is Inversely Proportional to NOC METHODOLOGY The purpose of the study is to find out the relation between CK metrics and reliability of the software system.

### **ESTIMATING RELIABILITY OF SOFTWARE SYSTEM USING OBJECT ...**

review conducted to gather facts on software reliability estimation of object oriented design. In this review paper, our contribution is to discover the available recognized comprehensive and an absolute model or frameworks for measuring the reliability of object oriented design at an early phase of development life cycle.

### **Reliability Measurement of an Object Oriented Design: A ...**

ABSTRACT: Object oriented designing is an essential part of software environment. This study focuses on a set of object oriented metrics that can be used to measure the maintainability of an object oriented design. These metrics for object oriented design focus on measurements that are applied to the class and design characteristics.

### **1. INTRODUCTION and evaluation of maintainability of an ...**

The object-oriented principles have provided estimation tools and basic ideas, which can be recognized and applied in the software development. Reuse of existing software components increase the overall quality and efficiency of software development life cycle and maintenance process [12, 14].

### **Reusability Estimation of Object Oriented Software: A ...**

facts on software maintainability estimation of object oriented design. In this review paper, our endeavor is to discover the existing known comprehensive and complete model or framework for measuring the maintainability of object oriented design at an initial stage of development life cycle.

### **MAINTAINABILITY ESTIMATION OF OBJECT ORIENTED ... - ijcea.com**

estimation model, which quantifies the maintainability of object-oriented software at the design stage. This paper does an extensive review on maintainability of object-oriented software and puts forth some relevant informa-tion about class diagram maintainability. Two quality attributes of class diagram, understandability and mod-

### **Maintainability Estimation Model for Object- Oriented ...**

The reliability estimation, prediction and measuring of component-based software. ... Comprehension of the behaviour of an object-oriented and multi-threaded program requires methods to compose an overall representation of the behaviour of the program. ... estimation of a reliability value can be based on field data obtained during the ...

### **The reliability estimation, prediction and measuring of ...**

Abstract. Object oriented design supports design principals such as inheritance, coupling, cohesion and encapsulation. The proposed research work will deliver a mechanism for reliability estimation of object oriented design in respect of complexity perspective. The four OO design metrics namely

Inheritance metric complexity perspective (IM C ),...

### **Reliability Quantification of an OO Design -Complexity ...**

The propagation through the Object Oriented Bayesian Network model allows to take into account the dependency between the failure modes and the common cause to compute the system's reliability  $R(k)$ . The Fig. 29, Fig. 30, Fig. 31 present OOBN models corresponding, respectively, to the SADT levels A3, A31 and A32 (see Fig. 27).

### **Complex system reliability modelling with Dynamic Object ...**

Reliability Estimation of Object Oriented Design: Complexity Perspective [Amitabha Yadav] on Amazon.com. \*FREE\* shipping on qualifying offers. This research work emphasizes on the estimation of software reliability using OO technology constructs like encapsulation

### **Reliability Estimation of Object Oriented Design ...**

future research. The framework for reliability estimation of object oriented design has the following assumptions: • Reliability of an object oriented design is affected by several factors, in which complexity is taken as a major factor. • Complexity of OO design is affected by object oriented design constructs.

### **RELIABILITY ESTIMATION FRAMEWORK -COMPLEXITY PERSPECTIVE**

PDF | Software metrics are required to measure quality in terms of software performance and reliability related characteristics like dependencies, coupling and cohesion etc. It provides a way to ...

### **(PDF) Software Quality Estimation through Object Oriented ...**

In object oriented programming, estimating reusability plays a key role in reducing cost and improving the software quality. Object oriented system helps in achieving the concept of reusability through different types of inheritance programs, which further facilitate in developing reusable software components.

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