Abstract

When it is requiring, releasing a new version of software it is helpful to take reference of old version. If developers know in advance which classes or methods of software may be change or will cause faults then developers can focus more on these classes.
Finding Proneness of S/W using Class Hierarchy Method

It is require identifying classes at earlier stages of development which may cause changes or faults in other classes, so that those classes can be given special attention. The technique presented here improves the quality and reliability of the software. To achieve corrective and adaptive maintenance we require making changes during the software evolution. It is important to analyze the frequency of changes in individual classes and also to identify and show related changes in multiple classes as these changes are key components of software.

Prediction of change-prone and fault prone classes of a software is an active topic under research in the area of software engineering. Such prediction can be used to predict changes and faults in different classes of a system from one release to the next release of software. Finding the change-prone and fault prone classes from software in advance can help the developers to focus more attention on these classes.

The proposed model presenting a technique for finding dependency of software, change-prone classes and fault-prone classes of Object Oriented Software.

Reference

- E. Arisholm, L. Briand, and A. Foyen
- A Genetic Algorithm Based Classification Approach for Finding Fault Prone Classes in the World Academy of Science, Engineering and Technology 60 2009 by Parvinder S. Sandhu, Satish Kumar Dhiman, Anmol Goyal

**Index Terms**

| Computer Science | Distributed Systems |

**Key words**

| Fault-Proneness | Change-Proneness |