A Fuzzy Approach for Evaluation of Maintainability of Object Oriented Software System

Abstract

The demand for efficient software system is increasing day by day. Maintainability is considered as an important quality factor for developing the efficient software system. Recent trends show that mostly software systems are using object-oriented technique to develop the quality software products. Object-oriented approach enhances the maintainability of software system. In literature there are no well defined criteria to evaluate maintainability. This paper proposes a fuzzy model to quantify maintainability of object-oriented software system. The model takes object-oriented projects and evaluates its maintainability. The value obtained by fuzzy model is validated by using analytical hierarchy processing technique.

References

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McGraw Hill.

Index Terms

Computer Science

Software Engineering
Keywords
Maintainability  AHP  Object-oriented Model  Fuzzy  Metric