Abstract

The common software problems appear in a wide variety of applications and environments. Some software related problems arises in software project development i.e. software related problems are known as software defect in which Software bug is a major problem arises in the coding implementation. There are no satisfied result found by project development team. The software bug problems mentation in problem report and software engineer does not easily detect this software defect but by the help of data mining classification software engineers easily can classify software bug. This paper classified and detect software bug by J48, ID3 and Naïve Bayes data mining algorithms. Comparison of these algorithms to detect accuracy and time taken to build model is also presented in this paper.

References

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- Alsmadi and Magel, &quot;Open source evolution Analysis&quot;, in proceeding of the 22nd IEEE International Conference on Software Maintenance (ICSM&amp;apos;06), Philadelphia, pa. USA, 2006.
- Nagwani N. and Verma S., &quot;Prediction data mining Model for software bug estimation using average Weighted similarity&quot;, In proceeding of advance Computing conference (IACC), 2010.
- Li and Reformat, &quot;A practical method for the Software fault prediction&quot;, in proceeding of IEEE Nation conference information reuse and Integration (IRI), 2007.
- Chang and Chu, &quot;software defect prediction Using international association rule mining&quot;, 2009.
- Kotsiantis and Kanellopoulos, &quot;Association rule mining: A recent overview&quot;, GESTS international transaction on computer science and Engineering, 2006.
- Pannurat, Kerdprasop and Kerdprasop, &quot;Database reverses engineering based On Association rule mining&quot;, IJCSI international Journal Of computer science issues 2010.
- Fayyad, Piatesky Shapiro, Smuth and Uthurusamy, &quot;Advances in knowledge discovery And data mining&quot;, AAAI Press, 1996.
- Shtern and Vassilios, &quot;Review article advances in Software engineering clustering methodologies for software engineering&quot;, Tzerpos volume, 2012.
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- Runeson and Nyholm, "Detection of duplicate Defect report uses neural network processing", in Proceeding of the 29th international conference on Software engineering 2007.

Index Terms

Computer Science
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Keywords

Classification: ID3  J48 and Naïve Bayes; Software BUG; WEKA.