An Efficient Source Code Auditing using Fuzzy Decision Tree

Abstract

Here in this paper the discovery of Vulnerabilities in the Source Codes is proposed. The Proposed Methodology applied is based on the Concept of Fuzzy Based Decision Tree. The Methodology adopted here for the Checking of Codes Vulnerabilities provides efficient discovery of Vulnerabilities and hence provides improved performance and high precision and Recall. The Proposed Methodology Audits the source code and searches the possible vulnerabilities on the basis of Rules generated Fuzzy Decision Tree. Various Experimental results are achieved on numerous datasets and shows that the proposed methodology provides better accuracy in comparison.

References

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Index Terms

Computer Science
Fuzzy Systems
Keywords

Software, Auditing, Fuzzing, Vulnerabilities, Fault Prediction, Vulnerabilities Prediction