On the Applicability of Soft Computing Techniques in Regression Testing

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Authors:
Esha Khanna, Ketna Khanna

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Abstract

Regression testing is required whenever changes are incorporated in software. Regression testing re-executes the test cases to verify that changes made during maintenance phase have not caused any unintended effects. Test case prioritization technique re-orders the test cases in such a way that important test cases are executed within the resources. The work reviews different test case prioritization techniques. The work also presents computational intelligence based test case prioritization techniques. The work reviews test case prioritization based on Neural Networks, Genetic Algorithms and Fuzzy Logic.

References

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Index Terms

Computer Science
Information Sciences

Keywords
Regression Testing, Computational Intelligence, Test Case Prioritization.