

COMP3211 Homework 1

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Paper Summary

The paper examines five different techniques for performing automated *Fault localization*, the most expensive debugging activity, and evaluates the performance of *Tarantula* based on the effectiveness and efficiency rankings among the five.

Tarantula technique is based on getting correlations between test-case outcomes and execution events. Events corresponding advantageously with failure are being inspected first.

The result indicates *Tarantula* outperforms other techniques consistently regarding the effectiveness and has similar costs to the most efficient techniques. Under the same score-level, it can identify noticeably more faults. However, the proportion that does not require to be analyzed in the program is concerned.