

## Prioritizing Test Path using Firefly Algorithm

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### ABSTRACT

Software testing is a vital and complex part of software development life cycle. Test case generation is a crucial activity of the software testing phase. Testing of all paths from control flow graph is not feasible in software testing, due to limited time and cost. Generation of optimized test path is a challenging part of path testing. In this paper we have proposed an approach to prioritize test case optimally using fire fly algorithm with UML approach. In our approach, a new technique to derive the optimized control flow graph from activity diagram designed through unified modeling language. Optimized path prioritize given test paths gives significant results with existing approach.

