Abstract

Query optimization is a challenging task in database. Many different types of techniques are used to optimize query. Heuristic Greedy, Iterative Improvement, and Ant Colony optimization algorithms are used to query optimization. Ant colony optimization algorithm used to find the optimal solution for different types of problems. In this paper, we modify Ant Colony Algorithm for query optimization and will show the comparison execution time between Heuristic-based optimization, Ant Colony Optimization and Modified Ant Colony optimization algorithms. After implementation of said existing algorithms and modified Ant Colony optimization algorithms, we found that modified Ant colony taking less computation time as compared to other algorithms.

References

Query Optimization using Modified Ant Colony Algorithm


18. M. Dorigo and G. D. Caro, “ant algorithms for discrete optimization”, Artificial Life, vol. 5,


**Index Terms**

Computer Science  
Algorithms
Keywords

Query Optimization, Heuristic-based optimizers, Ant-Colony, Modified Ant Colony.