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 algorithms are being used to query optimization. The Ant colony algorithm is used to find optimal solutions for different types of problems. In this paper, we modify the 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

Greedy Algorithm " IJCAT - International Journal of Computing and Technology Volume 1, Issue 1, February 2014


18. M. Dorigo and G. D. Caro, “ant algorithms for discrete optimization”, Artificial Life, vol. 5,
Query Optimization using Modified Ant Colony Algorithm


Index Terms

Computer Science

Algorithms
Keywords

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