Abstract

Query optimization is a challenging task in database. Many different types of techniques are used to optimize queries. Heuristic Greedy, Iterative Improvement and Ant Colony algorithms are being used for query optimization. Ant colony algorithm is used to find an optimal solution for different types of problems. In this paper, we modify the Ant Colony Algorithm for query optimization and will show the comparison of 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 takes less computation time as compared to other algorithms.

References

Query Optimization using Modified Ant Colony Algorithm

Greedy Algorithm


5. Dr. G. R. Bamnote Professor & Head Dept. of CSE, PRMITR, Badnera, India ,Prof. S. S. Agrawal ,Asst. Prof Dept. of CSE, COE & T, Akola, India ,” Introduction to Query Processing and Optimization “, International Journal of Advanced Research in Computer Science and Software Engineering , Volume 3, Issue 7, July 2013 ISSN: 2277 128X


http://www.generation5.org/content/2000/ga.asp


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

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Keywords

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