Abstract

The Traveling salesperson problem is one of the problem in mathematics and computer science which has drawn attention as it is easy to understand and difficult to solve. In this paper, we survey the various methods/techniques available to solve traveling salesman problem and analyze it to make critical evaluation of their time complexities. An implementation of the traveling salesman problem using dynamic programming is also presented in this paper which generates optimal answer and tested with 25 cities and it executes in reasonable time.
- The Traveling Salesman Problem: A case study in local optimization by David S. Johnson and Lyle A. McGeoch 1995
- A Multilevel Scheme for the Traveling Salesman Problem Øystein M. Hjertenes University of Bergen 2002.
- http://www.iwr.uniheidelberg.de/groups/comopt/software/TSPLIB95/
- The Traveling Salesman Problem: A case study in local optimization by David S.
Survey of Methods of Solving TSP along with its Implementation using Dynamic Programming Approach

Johnson and Lyle A. McGeoch 1995


- The Traveling Salesman Problem: A case study in local optimization by David S. Johnson and Lyle A. McGeoch 1995


http://en.wikipedia.org/wiki/Hill_climbing


Index Terms

Computer Science  Algorithms

Keywords

Traveling Salesman problem  Heuristic approach  Dynamic Programming  Greedy Method

Exact Solution Approaches