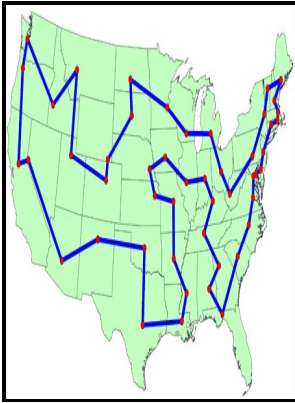


# Algorithms for the solution of the optimal cost and bottle-neck travelling salesman problems

University Microfilms - Three different methods to solve the travelling salesman problem



Description: -

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Troubadours.

Dante Alighieri, -- 1265-1321 -- Sources.

Leeson, Mary Francis Xavier, -- 1851-

Brontë, Charlotte, -- 1816-1855. Algorithms for the solution of the optimal cost and bottle-neck travelling salesman problems

-Algorithms for the solution of the optimal cost and bottle-neck travelling salesman problems

Notes: Thesis (Sc.D.) - Washington Univeristy, 1966.

This edition was published in 1966



Filesize: 14.52 MB

Tags: #Travelling #Salesman #Problem #Example #with #Solution #PPT

## 6.6: Hamiltonian Circuits and the Traveling Salesman Problem

Thus, the matrix is already column reduced. We ended up finding the worst circuit in the graph! Finally, the matrix is completely reduced.

## 6.6: Hamiltonian Circuits and the Traveling Salesman Problem

There are other better approximate algorithms for the problem.

### Algorithms for Large

Notice that the circuit only has to visit every vertex once; it does not need to use every edge.

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It then repeatedly finds the city not already in the tour that is closest to any city in the tour, and places it between whichever two cities would cause the resulting tour to be the shortest possible.

### Approximation Algorithm for Travelling Salesman Problem

Are there problems for which the heuristic is misleading in both directions? Let us see how is this guaranteed by the above algorithm. Solution If you had a search space that looked like a crescent moon where the tips almost touched, and you were trying to travel from just inside the tip of one side to just inside the tip of the other, then both sides would want to head towards the tip and around the outside of the moon, whereas the shortest path is initially stepping away and moving around the inside path Exercise 4.

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