Theory and Methods of Optimization

Embedded Robotics

Problem set 3

1. Find the maximum flow through the network described on the picture using the Edmonds-Karp Augmenting Path Algorithm. What is the solution of ST-min-cut problem for this network?



2. Find the maximum flow through the network described on the picture using the Edmonds-Karp Augmenting Path Algorithm. What is the solution of ST-min-cut problem for this network?



3. Find the shortest path from s to t for the network described by the picture using Dijkstra's algorithm.



4. Find the shortest path from s to t for the network described by the picture using Dijkstra's algorithm.

