Abstract

In this paper, we have examined the comparative study of Floyd Warshall algorithm and the Rectangular algorithm. We have tested these two algorithms on random graphs generated by the Erdös – Renyi (ER) model. The evaluation of the algorithms for different probabilities show that the Floyd Warshall algorithm gives slightly better performance for dense graphs while the Rectangular algorithm works better for sparse graphs.

References

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- Y. Han and T. Takaoka. : An O(n3loglog n/log2n) Time Algorithm for All Pairs Shortest Paths.

**Index Terms**

Computer Science  
Algorithms

**Keywords**

Bellman ford algorithm  
Dijkstra’s algorithm  
Floyd warshall algorithm  
all pair shortest path algorithm  
the rectangular algorithm  
comparison of algorithms.