Abstract

This paper proposes a shortest path problem with fuzzy parameters in the domain of Operations Research, which is based on Bellman Dynamic Programming algorithm. Attention has been paid to the study of fuzzy network with topological ordering. Here we discuss the shortest path problem from a specified vertex to all other vertices in a network. For illustration a real life example has been considered from Rajasthan State Roadways Transport Network.

Reference

- X. Wang and E. E. Kerre, “Reasonable properties for the ordering of fuzzy quantities (I),”
Computations of Shortest Path in a Fuzzy Network: Case Study with Rajasthan Roadways Network


Index Terms

Computer Science
Operations Research

Key words
Shortest path
Weighted graph
Triangular fuzzy number
Bellman dynamic programming