Abstract

In this article a fuzzy network has been considered whose edge weights are characterized by trapezoidal intuitionistic fuzzy numbers (TRIFNs). The network is acyclic with topological ordering. The shortest path and the corresponding path distance have been computed with the help of Bellman dynamic programming formulation. The method is illustrated by a suitable numerical example.
Shortest Path Problem under Intuitionistic Fuzzy Setting

(09758887), 11, 12.

Index Terms

Computer Science
Algorithms

Keywords

Value ambiguity ranking trapezoidal intuitionistic fuzzy number (TRIFN) shortest path