SHORTEST PATH PROBLEM IN A NETWORK USING INTUITIONISTIC FUZZY NUMBER - A CASE STUDY ABOUT KANYAKUMARI ROADWAYS NETWORK

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OBJECTIVE

To find the shortest route between Chennai and Kanyakumari for roadways network.

ABSTRACT

Finding Shortest path in a graph has been the area for many researchers. Shortest path is one of the fundamental and most widely used concepts in networks. Here, we discuss the Shortest Path Length (SPL) from a specified vertex to all other vertices in a network. For illustration, a real life example has been considered from Chennai to kanyakumari roadways transport network.

SIGNIFICANCE

It saves more time and to reduces the large expensive and to avoid much tension.

CONCLUSION

As a real life example Kanyakumari Roadways Transport network has been considered and with the help of ranking of TIFNs , shortest path length in this network is computed. In this paper, new algorithm have been proposed for SPP where the shortest path is identified using the concept of ranking function with regard to the fact that the Decision Maker can choose the best path among various alternatives from the list of ranking. We conclude that the algorithms developed in the current research are the simplest and is the alternative method for getting the shortest path intuitionistic fuzzy.