Abstract

This paper deals with Intuitionistic Fuzzy Linear Programming Problems (IFLPPs) using Symmetric Trapezoidal Intuitionistic Fuzzy Numbers (STIFNs) and the arithmetic operations defined on them. A special ranking function is presented in project environment to rank STIFN. An attempt has been made to solve the given IFLPP without converting them to crisp linear programming problems by using intuitionistic fuzzy simplex method and the algorithm is effective and reasonable as is evident from the results of a numerical example.

References

- M. Jimenez, "Ranking fuzzy numbers through the comparision of its expected
Intuitionistic Fuzzy Simplex Method


Index Terms

Computer Science Fuzzy Logic

Keywords

Intuitionistic Fuzzy Set Intuitionistic Fuzzy Linear Programming Problems Intuitionistic Fuzzy Simplex Method

Symmetric Trapezoidal Intuitionistic Fuzzy Numbers

Ranking Function