Abstract

Aim of this paper is to present an advanced method to solve Linear programming problem (LPP) in which decision variables, cost coefficients involving in objective function and right hand side coefficients in the constraints are trapezoidal fuzzy numbers. Using multiplication, addition operators of trapezoidal fuzzy numbers (TrFNs) and linear ranking function, Fuzzy Linear programming problem (FLPP) is converted into crisp LPP. Eventually solved it by simplex method and compared results with the results of existing method.

References

3. H. Tanaka, T. Okuda, K. Asai, On fuzzy mathematical programming, Journal of...
Cybernetics, 3 (1973), 37-46.


Index Terms
Computer Science Fuzzy Systems

Keywords
Fuzzy linear programming problem, Trapezoidal fuzzy numbers, ranking function.