Abstract

The motivation behind this paper is to focus on the solution of a Bi-Level Multi-Objective Large Scale Integer Quadratic Programming (BLMOLSIQP) problem in which all decision parameters in the objective functions are symmetric trapezoidal fuzzy numbers, and has block angular structure of the constraints. The suggested algorithm based on a linear ranking function, weight method, Taylor’s series, decomposition algorithm and branch and bound method is to find a compromised solution for the problem under consideration. In addition, the theoretical results are illustrated with the help of a numerical example.

References

2. S. Barkha, and D. Rajendra, “Optimum Solution of Fuzzy Linear Programming Problem
Index Terms

Computer Science  Fuzzy Systems

Keywords

Large Scale; Integer Programming; Quadratic Programming; Multi-Objective; Fuzzy Programming; Bi-level programming. MSC 2010: 90C06; 90C10; 90C20; 90C29; 90C70; 90C99.