

International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 5 No. IV (July, 2011), pp. 317-329

FUZZY PROGRAMMING BASED ON TYPE-2 GENERALIZED FUZZY NUMBERS

D. STEPHEN DINAGAR AND A. ANBALAGAN

Abstract

Type-2 fuzzy sets are fuzzy sets whose membership values are fuzzy sets on the interval $[0,1]$. This concept was proposed by Zadeh, as an extension of fuzzy sets. Type-2 fuzzy sets possess a great expressive power and are conceptually quite appealing. In this paper we solve the type-2 fuzzy linear programming problems by using a new ranking function to compare type-2 generalized trapezoidal fuzzy numbers.

Key Words : *Fuzzy number, Type-2 Fuzzy Set, Type-2 fuzzy linear programming problem, Ranking function.*

1991 AMS Subject Classification : 90C70.

©2011 Ascent Publishing House