International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 5 No. I (January, 2011), pp. 175-187

FUZZY MULTI-OBJECTIVE FRACTIONAL GOAL PROGRAMMING USING TOLERANCE

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Abstract

This work extends the tolerance approach to fuzzy multi-objective linear fractional goal programming (FMOLFGP) problems. Using different solution procedures, two models have been proposed to solve fuzzy goal programming (FGP) problems having fractional multi-objectives. Both approaches are illustrated by numerical example. The advantage of our approach is that the region of feasible solution in this case is either same or larger than those obtained by other FGP models. It leads to the possibility of arriving at a better solution.

Key Words: Fuzzy goal programming, Fuzzy multi-objective linear fractional goal programming, Tolerance approach, Tolerance allowance variable.

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