

عنوان مقاله:

Assessment and linear programming under fuzzy conditions

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خلاصه مقاله:

The present work focuses on two directions. First, a new fuzzy method using triangular / trapezoidal fuzzy numbers as tools is developed for evaluating a group's mean performance, when qualitative grades instead of numerical scores are used for assessing its members' individual performance. Second, a new technique is applied for solving Linear Programming problems with fuzzy coefficients. Examples are presented on student and basket-ball player assessment and on real life problems involving Linear Programming under fuzzy conditions to illustrate the applicability of our results in practice. A discussion follows on the perspectives of future research on the subject and the article closes with the general conclusions.

کلمات کلیدی:

Fuzzy Set (FS), Fuzzy Number (FN), Triangular FN (TFN), Trapezoidal FN (TpFN), Center of Gravity (COG)
(Defuzzification Technique, Fuzzy Linear Programming (FLP)

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