A Fuzzy Technique for Solving Rough Interval Multiobjective Transportation Problem

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Abstract

In this paper the rough interval multiobjective transportation problem (RIMOTP) is presented and its solution procedure is introduced. The concept of solving the interval multiobjective transportation problem is applied for solving RIMOTP. So, The rough interval in the objective function and the constrains, is represented by three different models and such models are solved by using fuzzy programming technique based on the right limit, the center and the half-width of each rough interval using possibly region. Numerical examples are provided to illustrate the solution procedure of three possible types of the original problem.

References

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Index Terms

Computer Science Fuzzy Systems
Keywords

Rough interval, multiobjective programming, transportation problem, fuzzy programming technique, Pareto optimal solution