Abstract

The motivation behind this paper is to focus on the solution of Fully Rough Three Level Large Scale Integer Linear Programming (FRTLLSILP) problem, in which all decision parameters and decision variables in the objective functions and the constraints are rough intervals, and have block angular structure of the constraints. The optimal values of decision rough variables are rough integer intervals. The proposed model is based on interval method and slice-sum method in an interactive model to find a compromised solution for the problem under consideration. Furthermore, the concepts of satisfactoriness are advanced as the upper level decision-makers' preferences until the preferred solution is obtained.

References

2. J. Nasiri and M. Mashinchi, "Rough Set and Data Analysis in Decision Tables", Journal of
An Interactive Model for Fully Rough Three Level Large Scale Integer Linear Programming Problem


Index Terms
Computer Science Applied Mathematics

Keywords
Large Scale Problems; Interval Method; Slice-Sum Method; Three–level Programming; Decomposition Algorithm;