

# SOLVING TRANSPORTATION PROBLEMS WITH MIXED CONSTRAINTS IN ROUGH ENVIRONMENT

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## Abstract

A new method namely, rough slice-sum method for solving fully rough integer interval transportation problems is proposed. The solution obtained by the proposed method provides a plan having minimum unit shipping rough cost for the given problem. The values of decision rough variables and rough objective function for the given problem obtained by the rough slice-sum method are rough integer intervals. Numerical example is presented to understand the solution procedure of the proposed method.

**AMS Subject Classification:** 90B06, 90C08.

**Key Words and Phrases:** Transportation problem, Rough integer intervals, Unit shipping cost, Rough slice-sum method.

## 1 Introduction

Transportation problem is one of the popular and most important applications of the linear programming problem. Many efficient algorithms [3, 5] have been developed for solving transportation problems having deterministic parameters. In many real life situations, some or all parameters of the transportation problem are

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**Combinatorial Optimization Under Uncertainty** Ritu Arora, Shalini Arora, Anand Kulkarni, Patrick Siarry, 2023-05-12

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**Proceedings of the Second Congress on Control, Robotics, and Mechatronics** Pradeep Kumar Jha, Prashant Jamwal, Brajesh Tripathi, Deepak Garg, Harish Sharma, 2024-11-13. This book features high quality research papers presented at the International Conference of Mechanical and Robotic Engineering Congress on Control Robotics and Mechatronics CRM 2024 jointly organized by SR University Warangal India and Soft Computing Research Society India during 3-4 February 2024. This book discusses the topics such as combustion and fuels controls and dynamics, fluid mechanics, I C engines and automobile engineering, machine design, mechatronics, rotor dynamics, solid mechanics, thermodynamics and combustion engineering, composite material, aerodynamics, aerial vehicles, missiles and robots, automatic design and manufacturing, artificial intelligence, unmanned aerial vehicles, autonomous robotic vehicles, evolutionary robotics, humanoids, hardware architecture, industrial robotics, intelligent control systems, microsensors and actuators, multi robots systems, neural decoding algorithms, neural networks for mobile robots, space robotics, control theory and applications, model predictive control, variable structure control and decentralized control. *Advances in Mathematical Modelling, Applied Analysis and Computation* Jagdev Singh, George A.

Anastassiou, Dumitru Baleanu, Devendra Kumar, 2025-07-11. This book is a collection of research papers from the 7th International Conference on Mathematical Modelling Applied Analysis and Computation organized by Lebanese American University Beirut Lebanon from April 18-20, 2024. This proceeding contains research papers related with fundamental mathematical theory and methods in a very suitable manner and useful for handling various contemporary issues of physical

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