

# 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

# Solving Transportation Problem With Mixed Constraints

**Michael Brown**



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Combinatorial Optimization Under Uncertainty Ritu Arora, Shalini Arora, Anand Kulkarni, Patrick Siarry, 2023-05-12 This book discusses the basic ideas underlying principles mathematical formulations analysis and applications of the different combinatorial problems under uncertainty and attempts to provide solutions for the same Uncertainty influences the behaviour of the market to a great extent Global pandemics and calamities are other factors which affect and augment unpredictability in the market The intent of this book is to develop mathematical structures for different aspects of allocation problems depicting real life scenarios The novel methods which are incorporated in practical scenarios under uncertain circumstances include the STAR heuristic approach Matrix geometric method Ranking function and Pythagorean fuzzy numbers to name a few Distinct problems which are considered in this book under uncertainty include scheduling cyclic bottleneck assignment problem bilevel transportation problem multi index transportation problem retrieval queuing uncertain matrix games optimal production evaluation of cotton in different soil and water conditions the healthcare sector intuitionistic fuzzy quadratic programming problem and multi objective optimization problem This book may serve as a valuable reference for researchers working in the domain of optimization for solving combinatorial problems under uncertainty The contributions of this book may further help to explore new avenues leading toward multidisciplinary research discussions

**More-for-Less Solutions in Fuzzy Transportation Problems** Tanveen Kaur Bhatia, Amit Kumar, Srimantoora S. Appadoo, 2023-06-13 This book describes a set of methods for finding more for less solutions of various kind of fuzzy transportation problems Inspired by more for less approaches to the basic transportation problem initiated by Abraham Charnes and his collaborators during 1960s and 1970s this book describes new methods developed by the authors to solve different types of problems including symmetric balanced fuzzy transportation problems symmetric intuitionistic fuzzy transportation problems with mixed constraints and symmetric intuitionistic fuzzy linear fractional transportation problems with mixed constraints It offers extensive details on their applications to some representative problems and discusses some future research directions *Integer Programming and Related Areas* R.v.

Randow, 2012-12-06 On the Transportation Problem with Mixed Constraints Amani Omar, 1986 **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

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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 chemical and engineering sciences The aim of this conference is to foster cooperation among mathematicians and scientists working in these areas This book is a very useful resource for mathematicians scientists and engineers working in the field of applied mathematics analysis and computation for solving real life problems of different domains **The Transportation**

**Problem with Mixed Constraints** D. Klingman, R. Russell, TEXAS UNIV AUSTIN CENTER FOR CYBERNETIC STUDIES., 1973 A generalization of the standard transportation model in which the origin and destination constraints consist not only of equality but also of greater than or equal to or less than or equal to type constraints is considered It is shown that the model is equivalent to a standard transportation problem having only one additional origin and destination Author

**Theoretical and Applied Mathematics in International Business** Christiansen, Bryan, Shuwaikh, Fatima, 2019-07-05 In the past practical applications motivated the development of mathematical theories which then became the subject of study in pure mathematics where abstract concepts are studied for their own sake The activity of applied mathematics is thus intimately connected with research in pure mathematics which is also referred to as theoretical mathematics Theoretical and Applied Mathematics in International Business is an essential research publication that explores the importance and implications of applied and theoretical mathematics within international business including areas such as finance general management sales and marketing and supply chain management Highlighting topics such as data mining global economics and general management this publication is ideal for scholars specialists managers corporate professionals researchers and academicians *Engineering Science and Technology: Innovations for the Future* Reeya S. R., Bore Gowda, Y. S.

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*Mathematical Reviews* ,1998

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