

Improved Zero Point Method (IZPM) for the Transportation Problems

A. Edward Samuel

Ramanujan Research Center
P.O. 26 Kovvurthi Department of Mathematics,
Government Arts College, Kottayam
Kottayam-686 001, Tamil Nadu, India.
aedward74_chancellor@yahoo.com

Abstract

This note, points out how Fletcher and Natarajan's zero point method for the class of linear transportation problems can be improved. This simple modification is an improved zero point method (IZPM) for solving both Crisp and Fuzzy transportation problems. This modification could result in an optimal solution. Further comparative study among the new technique and the other existing transportation algorithms are established by means of sample problems.

Mathematics Subject Classification: 90B06, 90C08.

Key words: Transportation problem, Improved Zero Point Method (IZPM).

INTRODUCTION

Vogel's Approximation method for a balanced transportation problem starts with the calculation of penalties (the difference between the several minimums and the first minimums) for all rows and columns. There is always at least one as possible to

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