ESTIMATION OF THE PARAMETERS AND THE INTERVAL OF CONFIDENCE IN TRANSPORTATION PROBLEMS BY TRIANGULAR FUZZY NUMBERS OVER INTERNET USING JAVA PROGRAMMING

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The determination of transportation parameters, are characterized by uncertainty, subjectivity, imprecision and ambiguity. In the mathematical modeling phase of trip-distribution problems, the individual parameters, which solely predict the trip-interchanges are uncertain, ambiguous and usually subjectively estimated. In this paper, we propose a model to determine parameters in a very precise way without any randomness, which satisfies the Gravity Model. These estimations are computed using Java programs so that the estimation model can be distributed over World Wide Web. Once the parameters are determined, we use Triangular Fuzzy Numbers to predict the trip-interchanges between the zones. The interval estimated by us gives the width of the base of the triangle in which the trip interchanges occur, providing us with a good level of certainty.