

Development of Optimization Models of Logistics Processes in Large Cities

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ABSTRACT

At present, passengers in Uzbekistan are in cities, in the suburbs and for intercity transport, most people use public transport. Demand for passenger transportation in cities, towns and remote areas automobile transport, although not the main one, plays a major role in meeting The majority In the absence of personal vehicles for residents, such the problem of meeting the demand for transport in time and quality turns from transport to social direction, which in some cases of the population determines not only the attitude towards vehicles.

Introduction: *Systematic analysis of logistics processes in passenger transportation.* One of the main conceptual principles of logistics is a systematic approach. Based on this, the passenger transportation process is divided into a number of subsystems (passengers traffic and ticketing subsystem; formation of passenger flow is below system; passenger boarding and disembarking subsystem) as a system that includes can be shown. Vehicle supply subsystem, etc.). of the system inclusion is the population's need for transport and traffic structure known number, type and technical condition. The result of the system is marked passengers timely and quality transportation to the destination. Feedback in the system under consideration rolling stock movement, schedule compliance, movement intervals and on compliance of the number of rolling stock with transportation needs is done by fetching from the data line. The normal operation of the system continues only under a number of restrictions possible, the main of which are: to the specified speed mode of the vehicle compliance, ensuring travel comfort, compliance with environmental requirements, meet the financial performance of the transport. enterprises and others. The goal of the studied system is to meet the demand for passenger transportation in a timely manner and quality satisfaction. There are problems during the operation of the system will be, that is. characterized by the difference between desired and available output situations.

Literature analysis on the topic: *Optimization of logistics processes in public passenger transport.* The existing exit is provided by the existing transport system. The desired output is provided by the desired system accordingly. Transport compliance with the speed regime set by

the vehicle, ease of travel provision, compliance with environmental requirements, work of transport enterprises performance of financial indicators, etc Local and foreign experiences have shown that big cities urgent problems of increasing the effective operation of transport planning using mathematical models and computer modeling processes should be automated and optimized. This problem is complicated by many transport systems functionality, decentralization of planning and management, dynamic and probabilistic nature of the studied processes, management activity of the object, these are many psychological and socio-economic factors requires consideration. The peculiarity of the urgency of the problem is that researching various directions of the transport system organization of management independently of each other, road ensuring the safety of movement, planning cargo and passenger transportation, roads design and transport urban planning specialists are involved. This is one to organize a series of independent transport science and transport network courses leads to different systems functioning until they perform tasks independently can show. Thus, the planning of transport processes and to find a solution to any automation task completely interdependence that determines the nature of the operation of the transport system it is necessary to apply factors. In addition, technological, diversity and there are returns in the theoretical development of experiments. In addition, technological diversity and theoretical development of experiments output contains returns. The city is newly designed and implemented in passenger transport automated control system in most cases without adequate justification works:

- 1) *selection of system content;*
- 2) *request for information;*
- 3) *technical and programming requirements*

Result discussion: *Mathematical models for optimization of logistics processes*

The concept of a mathematical model is a method of mathematical modeling is the main concept. A mathematical definition of a mathematical model expressed by means of some event or external world approximate description of the process.

Mathematical modeling includes three interconnected stages:

- 1) creating a mathematical description of the studied object;
- 2) choosing a method of solving a system of mathematical description equations and its implementation in the form of a modeling program;
- 3) determining the similarity (adequacy) of the model to the object.

Summary: Transport is an important link of the logistics system; must have a number of necessary features and meet certain requirements to create innovative systems of collection and distribution of goods. It should be able to transport small batches at short intervals according to the user's changing stock.

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