

IMPROVING THE RELIABILITY OF OPERATION OF A SPECIALIZED COMPUTING DEVICE OF AN AUTOMATED SYSTEM OF CONTROL AND ACCOUNTING OF ELECTRICITY

Yanko A., Krasnobayev V., Chernikov O.

Poltava National Technical Yuri Kondratyuk University, Poltava, Ukraine

In connection with the formation of market relations in Ukraine in recent years, a new scientific and practical area – logistics, has appeared and started to actively develop. The interest in this area is explained by the impressive results obtained by applying a logistic approach in the economies of industrialized countries. Foreign experience shows that logistics plays a strategically important role in today's economy [1]. In this regard, there are new rather complex tasks of building a logistics production system (LPS). Creating a LPS in industry requires a number of scientific and practical problems, such as:

- development of approaches and methods for logistic analysis of enterprises and tasks of planning and management;
- creation of models and methods for substantiation of construction of automated control system of modern enterprise[2].

A subject of research is models, methods, and information technology of logistic analysis of production enterprise. A research purpose is an increase of efficiency of organizational management on the basis of logistic analysis of production processes for creation of automated control the system by a production.

In-process put and decided task of increase of efficiency of organizational management. The actually scientific and technical task of development of models and methods of logistic analysis of production is decided. This task has an important folk-economic value for modern productions in different industries which work in modern market conditions [3]. The method of choice of rational architecture of the informatively-managing system is developed on the basis of genetic algorithm. The complex of models is got on the basis of the systems and networks of mass service for the analysis of logistic chains of production.

References

1. Newell G.F. Traffic Flow on Transportation networks, MIT Press, Cambridge, Mass, 1980. – 345p.
2. Eilon.S. Distribution Management: Mathematical Modeling and Practical Analysis.- New York: Hafner, 1988. – 284p.
3. Saniuk S., Krawczyk S., Witkowski K. Wariantowanie produkcyjnych sieci wytwarzania produktu w warunkach ograniczeń logistycznych, Międzynarodowa Konferencja Naukowa Techniki symulacyjne w logistyce i planowaniu przestrzennym, CD-ROM, Wrocław, 2010.