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S T A N D P O I N T

from Prof. d-r Krassimir Gochev Kalev,
NMU „Vasil Levski“, Faculty „Artillery, AD и CIS”

for awarding the educational and scientific degree
"Doctor"

Area of higher education: **Technical Sciences**
Professional field: **General Engineering**
Doctoral program: **Engineering logistics**
The title of dissertation: **Improving logistics activities in the field of digital technologies**
The author of the dissertation: Nikolay Hristov Yordanov

The Standpoint was written in accordance with Article 29 (1) of the Regulations for the Development of the Academic Staff at the Shumen University "Bishop Konstantin Preslavski" and a decision of the Department Council of the Department of Engineering Logistics documented with protocol КД-01-02/09.10.2025.

1. Общо General description of the materials provided for the dissertation defense procedure

The presented dissertation, autoabstract and the documents to them were discussed at a meeting of the department council of the Department of Engineering Logistics and a procedure for defense before a scientific jury was announced.

The dissertation is developed in a total volume of 154 pages and includes: Introduction; four chapters; Conclusion; General conclusions; Contributions; Bibliography. The content is illustrated by 37 figures and 14 tables. The literature review includes 117 sources.

The dissertation autoabstract is prepared in A5 format and is 60 pages long.

The dissertation candidate has presented 4 scientific publications related to the dissertation, two of which were independently developed.

2. Actuality of the problem developed in the doctoral dissertation

The timeliness of the topic of the dissertation is determined by a number of objective factors, such as the growing needs of the global society, increased requirements for efficiency, traceability and automation of order flows and supply chains. The consumption of goods is a relatively variable process and requires quick and adaptive solutions from both manufacturing companies and logistics organizations. On the other hand, the development of digital technologies and automatic control systems open up new opportunities for optimizing the quantities and nomenclatures of material resources, while minimizing costs and times for replenishing stocks.

The creation of new devices, machines and technologies in all areas of industry and especially the accelerated progress in digital technologies provide transparency of processes, better and adequate management. The predictability of demand, rational selection of routes and solving tasks in real time are facilitated.

Digitalization in industry and logistics contributes to significant efficiency and sustainability of processes, competitiveness and a higher standard of living.

I believe that the topic of the dissertation is correctly chosen, the problem it solves is relevant and contributes to increasing the efficiency of supply chains.

3. Degree of knowledge of the state of the problem and creative interpretation of the literary material

The dissertation candidate has studied the theoretical foundations of logistics. He studies and analyzes logistics chains in specific conditions, proposing options for streamlining process management activities.

In the dissertation has applied methods of mathematical statistics to solve the tasks arising from the existing problem.

Due to the large-scale penetration of digital technologies at all levels in logistics systems, their advantages have been skillfully analyzed and the main indicators showing the effectiveness of their use have been quantitatively evaluated.

In his work on the dissertation, the author has used a large number of information sources, which is evidence of good awareness of the topic being developed.

4. Matching of the chosen research methodology with the stated aim and tasks of the doctoral dissertation

The dissertation is developed on the basis of the system-structural approach. The entire logistics system and individual interconnected elements are examined, which allows to clarify the structure with its subsystems, the connections, dependencies and interactions between them, as well as the influence of external factors.

To solve the tasks set in the dissertation, a statistical method based on regression analysis was used. The models allow for the study and prediction of logistics processes.

The chosen approach to work as a result of the analysis in the first chapter corresponds to the stated goal and tasks of the dissertation.

5. Main scientific-applied contributions

The author's scientific and applied results are in the field of distribution logistics.

I accept the following contributions to the dissertation work, as proposed, divided into two groups of scientific and applied contributions.

First group:

- the logistics theory of supply chains is further developed in order to achieve maximum efficiency, minimum costs and a high level of service;
- the idea of ensuring connectivity between different entities in real time through the application of digital technologies in logistics is further developed;
- the impact of digital technologies on the efficiency of logistics processes is assessed.

Second group:

- methods for predicting the need for digital components are proposed;
- software tools for automating supply chain management are proposed;
- a method for assessing the impact of digitalization on the efficiency of logistics processes is proposed.

6. Assessment of the degree of the dissertation candidate's personal participation in the contributions

The dissertation work states scientific-applied and applied contributions that are the personal work of the author, achieved with the support of the scientific supervisor.

7. Assessment of the autoabstract

An autoabstract is attached to the dissertation, which creates a reliable and complete picture of the content, scientific methods and approaches in the research conducted and the results obtained.

8. Opinions, recommendations and notes

Notes to the author: large volume of the first chapter; the model for optimization of logistics processes and criterion indicators are not described clearly enough; the writing style should be more engineering with short technical expressions; the arguments, assessments and conclusions should be supported by quantitative indicators or logical assumptions.

I recommend that the candidate for the award of the educational and scientific degree "doctor" increase his appearances in scientific forums outside the university where he works, and also publish in specialized international scientific journals.

Conclusion

I **positively** evaluate the dissertation work on the topic "Improvement of logistics activities in the field of digital technologies" with author Nikolay Hristov Yordanov and I believe that it meets the requirements for scientific and applied research for the acquisition of the educational and scientific degree "doctor", according to the Act on the Development of the Academic Staff in the Republic of Bulgaria.

I recommend to the esteemed Scientific Jury to award Nikolay Hristov Yordanov the educational and scientific degree "**doctor**" in the doctoral program Engineering Logistics, professional field General Engineering in the area of higher education Technical Sciences.

27.11.2025

Shumen

Member of the Scientific Jury:

Prof. d-r Krassimir Kalev