

## ABSTRACTS

of the works of Ch. Assist. Prof. Dr. Eng. Stefan Marinov Kazakov proposed for participation in a competition for "Associate Professor" in the field of higher education: 5. Technical sciences, professional field 5.13. General Engineering, / Engineering Logistics / in the Department of Engineering Logistics, Faculty of Technical Sciences, University of Shumen "Bishop Konstantin Preslavski", published in the State Gazette, issue.12/12.02.2021 г.

### I. Monographs

Kazakov, St. "Network approach in systematization of information flows in logistics", UE "Ep. K. Preslavski ", ISBN 978-619-201-384-4, 2020.

*The main reason for connecting computers to a network is to create an opportunity for communication between subscribers, to share resources, exchange information and more. Communication in a logistics environment is carried out through the exchange of controlled information flows between connected workstations (computers). The exchange of information between connected computers is a complex process. The principles of communication are related to the ability of computers to process information arrays of data.*

### II. Textbooks and teaching aids

**2.1.** St. Kazakov, Textbook for students in "Information Technology", UE "Bishop Konstantin Preslavski", ISBN 978-619-201-395-0, 2020, library@shu.bg

*The material included in the textbook aims to assist students in studying key topics concerning the theoretical and practical aspects of engineering training in the professional field of "General Engineering" in the discipline.*

*The types of hardware and software of computers are considered, the main programs for work are considered, as well as how to develop a multimedia product.*

### III. Articles and reports from scientific conferences, proceedings and periodicals

Publications can be classified into the following main areas:

- ✓ Characteristics of computer networks;
- ✓ Analysis of logistics processes;
- ✓ Software for logistics systems.

#### **3.1. Characteristics of computer networks**

*Publications with contributions in the specified field*

1. 1. Stefan Kazakov, Tihomir Trifonov, Ivan Tsonev - **Probabilistic-temporal characteristics in a three-level centralized computer structure**, International Conference Bionics and Prosthetics, Biomechanics and Robotics, Liepaya, Latvia, 2014, Vol.10, ISBN 978-9934-10 -573-9

*With the growing need to optimize information logistics systems, it is necessary to analyze the characteristics of different systems;*

### 3.2. Analysis of logistics processes

*Publications with contributions in the specified field*

1. Plamen Dqnikov, Stefan Kazakov, **Synthesis of solitions in transport testing in MatLab software environment**, 54th International scientific conference on information, communication and energy systems and technologies (ICEST 2019) Ohrid, North Macedonia, June 27-29, 2019, Issue 1, ISSN 2603-3267, pp. 401-403 / online /

*The problem is a special type of linear optimization problem. It refers to the distribution of quantities between a source and a group of destinations in such a way as to minimize the total cost of that distribution..*

2. Stefan Kazakov - **ERP systems in logistics and transportation**, International scientific refereed online journal with impact factor, ISSUE 69, May 2020, ISSN 2367-5721, pp. 49-53

*The task is to analyze the logistics systems in order to better plan the transport activity.*

3. Stefan Kazakov, **Resources and organization of processes in logistics engineering**, International scientific refereed online journal with impact factor, ISSUE 69, MAY 2020, ISSN 2367-5721p. 54-59

*Consideration of the necessary resources and organization of the processes in the design of engineering logistics systems.*

4. Stefan Kazakov, **Systematization of information flows in logistics**, Annual University Scientific Conference, Vasil Levski National High School, Veliko Tarnovo, 2020, ISSN 2367-7481, p.1721 -1729

*The task is to study the traffic of information flows in logistics in a local network.*

5. Stefan Kazakov, **General Mathematical Concepts Used in the Management of Operations in Logistics**, University of Shumen "Bishop Konstantin Preslavski", Scientific Conference with International Participation MATTECH 2020, ISSN 1314-3921, pp. 335 -340

*The modern definition of the term model is based on the presented idea, defining the model as a reflection of certain characteristics of the object in order to study it. According to another broader definition, a model should be understood as such a mentally represented or materially realized system, which by reflecting or reproducing the object of research, is able to replace it and give new information about it..*

6. Stefan, Kazakov, **Approaches and Principles for Building Information Systems for Logistics Management**, University of Shumen "Bishop Konstantin Preslavski", Scientific Conference with International Participation MATTECH 2020, ISSN 1314-3921, pp. 341 -345

*The formation of an information system is a complex and multifaceted process, which uses the achievements of modern information technology, the latest computer systems, which makes possible the successful management of production processes based on the application of adequate information technology, methods and forms of information provision. the logistics system as a whole.*

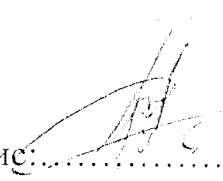
8.6. Стефан Казаков – **Analysis of RFID Generation 2 security**, Шуменски университет "Епископ Константин Преславски", Научна конференция с международно участие MATTEX 2018, ISSN 1314-3921, с.194-202

*Анализ и приложение на средствата за радиочестотна идентификация от второ поколение.*

8.14. Стефан Казаков, **Analysis of logistic efficiency**, JOURNAL SCIENTIFIC AND APPLIED RESEARCH, лицензиран в EBSCO, USA, Vol. 18, 2020г., ISSN 1314-6289, с. 41-47

*Подобряването на ефективността на логистиката е в основата на икономическия растеж и конкурентоспособността на бизнеса.*

2021г.

Подпис:.....

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