

## SUMMARIES

**of scientific publications of Vasil Mitkov Kolev Ph.D.,  
to participate in a competition for the academic position "Associate Professor",  
professional direction 9.1 National security  
(National security and its connectivity with public transport),  
promulgated in SG No. 56 of 19.07.2022**

### I. MONOGRAPH

**1. Vasil Kolev, National Security and Its Connectivity with Public Transport, HP  
HSSE, Plovdiv, 2022, 153 p., ISBN 978-619-7343-68-7**

The monograph was published after receiving the scientific degree "Ph.D." and does not repeat the thematic certainty and research of the subject area in the competition for associate professor.

Public transport is an essential part of providing connectivity, an important aspect linked to the economic development of society globally and regarding the national security. The main challenges that occur on public transport are a shift towards green energy and the specificities patterns like finding ways to create a sustainable environment for people's life. There are scientific developments that explore these two elements and their importance for improving quality of life. The global energy scarcity environment is contributing to the relevant problem, which affects public transport in the immediate manner.

New technologies are increasingly being implemented in the dynamic and fast-growing field of public transport. This circumstance contributes to the development of the sector, but at the same time the transition to such technologies is slow and difficult due to their complexity and the serious financial resources needed. Government policy towards promoting the development of public transport is from great importance. The reason for this fact is that public transport is a losing sector, and that activity needs to be supported by the country.

The examination of basics in public transport is a serious issue due to the need to improve its effectiveness. Public transport plays an important function, namely the transport of people, thereby supporting the economic development of the country.

The monograph study examines key indicators that have an immediate impact on public relations in the transport sector.

It does not address the processes of transport in its entirety, but looks at key elements of public transport related to each other and representing important points in the organization and control of public transport.

The purpose of the monograph study is to focus on the importance of public transport and its connectivity with national security. This circumstance is realized by solving the following research tasks:

- ✓ Explore scientific theories and practical circumstances aimed at public transport participants
- ✓ Summarizing innovative modern methods and characteristics in public transport from a theoretical and practical research regarding the national security
- ✓ Analyzing different ways of efficiency, on the parameters of public transport, seeking maximum functionality and accessibility.

The monograph is a study of scientific problems in public transport, the transport sector and security protection, as well as offering solutions in this regard. A rational approach has been adopted for the realization of various elements of the organization and functionality of public transport and national security. These elements together help to find solutions to improve the efficiency of public transport.

## **II. Published book based on protected dissertation on the award of educational and scientific degree "Ph.D."**

1. Kolev, V. The Court as the subject of the criminal trial, PH HSSE- Plovdiv, 2022, ISBN 978-619-7343-65-6, 159 p.

The book is a publication of the thesis work of the author for the acquisition of a scientific and educational degree "Ph.D.". The dissertation is protected in 2017. At the basis of the resolution of the issue of the allocation of powers regarding government power between different public authorities is the principle of separation of powers. At the heart of the resolution of the issue of the allocation of powers which exist to government power between different public authorities is the principle of separation of powers and formulations to nowadays. Among the functions of the judiciary of particular importance is the activities of the government procedural authorities in the criminal procedure law, and in particular the court. Building government power and statehood in general is unthinkable without fully functioning criminal courts. The importance of this activity is driven by numerous specificities.

Among the well-established names of Bulgarian scientists whose work the author refers to are those of Emilia Drumeva, Nikola Manev, Nikola Saranov, Ivan Sulov, Veselin Uchkov, etc.

## **III. SCIENTIFIC STUDIES AND ARTICLES**

1. Kolev, V. **National security, green energy, and the development of intra-urban public transport in the Republic of Bulgaria**, collection of reports from the annual scientific conference, 30 June-01July 2022, p. 1042-1047, publishing complex of Vasil Levski National University, ISSN: 2367-7481

The report is regarding one of the important themes nowadays exactly implementation and the process of realization of green energy in public bus transport in Republic of Bulgaria such as this question is from the sphere of national security due to its importance and huge meaning of this kind of transport regarding relations between people.

2. Kolev, V. **Specification of intra-urban transport for national security purposes in the Republic of Bulgaria**, National Security Magazine, Sofia, “Victory IZDAT” LTD, issue 11/2022, p. 33-36, ISSN: 2682-941X & ISSN: 2682-9983

The article examines key moments and details regarding the specification of public mass transport and approach necessary adequate and relevant transitioning to renewable energy sources from those that are in usage up to nowadays

3. Kolev, V. **Green Energy and Bus Transport – Trends for Its Development from a National Security Perspective**, National Security Magazine, Sofia, “Victory IZDAT” LTD, issue 12/2022, p. 18-21, ISSN: 2682-941X & ISSN: 2682-9983

The article examines transitioning to green energy in the bus transport and how this reflects the environment. There are key moments which are important regarding approach of the sustainable development.

4. Kolev, V. **National Security and Sustainability in Inner-City Transport**, National Security Magazine, Sofia, "Victory IZDAT" LTD., issue 13/2022, p. 07-09, ISSN: 2682-941X & ISSN: 2682-9983

The article examines effect linked between national security regarding sustainability of cities and specifically in the sphere of public bus transport and its importance regarding challenges of nowadays.

5. Kolev, V., **Smart Cities, Bus Transport and National Security**, National Security Magazine, Sofia, "Victory IZDAT" LTD., issue 14/2022, p. 03-05, ISSN: 2682-941X & ISSN: 2682-9983

The article examines the ideas which are attached into the moment circumstance regarding realization of the world initiative called "smart cities" regarding bus transport from a national security perspective.

6. Kolev, V., The importance of mass urban transport from a national security perspective, Politics&Security, Vol.6, №3, 2022, p.8-10, ISSN 2535-0358(Print), ISSN 2815-3324

The article examines the energy consumption and importance of mass transport from the perspective of national security. All this is directly related to the way of life of people. The figure of mass public transport and its serious role in all these processes is included. The topic of the implementation of new technologies in cities and their realization is affected.

7. Kolev, V. **Artificial intelligence and the global "smart cities" initiative**: Collection of reports from the international scientific conference "Artificial intelligence in the field of security – advantages and threats", HSSE- Plovdiv, 2022, ISBN 978-619-7343-39-7

The report explores artificial intelligence and its application in the global „smart cities “initiative. Application and use for better efficiency in terms of specific processes implemented in „smart cities “and examines the specifics and numerous variations for performing functions in this regard. The report shows how artificial intelligence is used to improve its use.

8. Kolev, V. **The impact of intra-urban mass transport on ecology and in particular the cleanliness of ambient air**", Collection of reports from the international scientific conference "Artificial intelligence in the field of security – advantages and threats", HSSE-Plovdiv, 2022, ISBN 978-619-7343-39-7,

The report examines the correlation and impact of artificial intelligence on ambient air. Basic principles are laid down in this type of methodology. Attention has also been paid to the impact of dirty air on human health. Different modes of action for a more sustainable and environmentally friendly urban environment are being considered.

9. Kolev, V. **How are artificial intelligence systems implemented in the field of public transport and national security?** Collection of reports from the international scientific conference "Artificial intelligence in the field of security – advantages and threats", HSSE-Plovdiv, 2022, ISBN 978-619-7343-39-7,

The report examines how artificial intelligence systems are implemented in the field of public transport through the prism of national security. How public relations are implemented in this regard. What is the concept of sustainable development advocated with artificial intelligence and public transport.

10. Kolev, V. **Sustainable urban mobility and public transport in the Republic of Bulgaria – future and prospects**, National Security magazine, Sofia, "Victory IZDAT" LTD, issue 15/2022, p. 3-8, ISSN: 2682-941X & ISSN: 2682-9983

The article explores aspects related to urban mobility, public transport, and national security. Attention has been paid to prospects and possible developments in the transport sector.

11. Kolev, V. **Prospects and future of public transport through the prism of national security**, collection of reports from the annual scientific conference, 27 October 2022, publishing complex of Vasil Levski National University, ISSN: 2367-7481

Public transport is question regarding national security. This puts it in an important place in relation to public relations, which are a priority for people regarding public transport sector. Regarding this occasion serious science approach and appropriate actions are

needed in this regard with the development of modern technologies, this idea is increasingly developing.

12. Kolev, V. **Green Energy and its implementation in public transport - an aspect of national security**, collection of reports from the annual scientific conference, 27 October 2022, publishing complex of Vasil Levski National University, ISSN: 2367-7481

The report is examining the process of green energy switching on public transport and the issues in this regard. The great importance of this process. That is directly connected to the national security.

13. Kolev, V. **The impact of intra-urban mass transport on ecology and in particular the cleanliness of ambient air**, collection of reports from the annual scientific conference, 27 October 2022, publishing complex of Vasil Levski National University, ISSN: 2367-7481

Ambient air is key to people's good health and normal lifestyle. One of the biggest polluters in this regard is public transport. It is necessary to take appropriate measures to control this negative trend by developing and implementing different models, an approach to reduce pollution and create a cleaner environment is possible.

14. Kolev, V., **Procedures in connection with the transition to green energy in public transport and national security**, Collection of reports from the Annual International Scientific Conference, 07 October 2022, Dolna Mitropolia, publisher *HAFU* "Georgi Benkovski ", 347-352, ISSN 2738-716X

The report forms part of the procedures related to the process of switching from non-renewable energy sources to renewable energy sources in public bus transport, which is a national security issue.

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