

STANDPOINT

in a concourse for the academic position of "Associate Professor"

in professional field 5.2 "Electrical engineering, Electronic and Automation"
scientific specialty „Application of the principles and methods of cybernetics in various
fields of science“,

from the Institute of Information and Communication Technologies, Bulgarian Academy of
Sciences, announced in the State Gazette No. 105 of 13.12.2024,

with candidate: Stanislav Dimitrov Dimitrov, Ph.D., Chief Assistant

Prepared by: member of the scientific jury Assoc. Prof. Dr. Tony Ventsislavov Boiadjiev

1. General information and biographical data of the candidate

Stanislav Dimitrov Dimitrov was born on 14.10.1985. He graduated from the University of Chemical Technology and Metallurgy - Sofia in 2010, specialty "Information Technologies". He completed doctoral studies and acquired the educational and scientific degree "Doctor" at the Institute of Information and Communication Technologies - Bulgarian Academy of Sciences (IICT-BAS) in 2014, professional field 5.2 "Electrical Engineering, Electronics and Automation". From 15.01.2009 he joined the Institute of IICT - BAS as a programmer. On 01.10.2019 he was elected as a chief assistant. As such, he currently works with a field of work in science and education in the field of information technologies.

2. General description of the materials provided for participation in the concourse

The candidate has submitted 31 scientific publications for participation in the concourse, all after the dissertation for the educational and scientific degree of "doctor". Of these, 19 are in publications that are referenced and indexed in world-renowned databases of scientific information, including 15 articles from conference proceedings and 4 articles in journals and series, of which 2 with an impact factor. It should be noted that one of the publications cannot be found in SCOPUS, namely:

K. Pavlova, E. Trichkova-Kashamova, S. Dimitrov. Risk Assessment on an Agricultural Farm, WSEAS Transactions on Business and Economics, Print ISSN: 1109-9526, E-ISSN: 2224-2899, Volume 21, 2024, pp. 1418-1427.

The remaining 12 publications are in non-refereed journals with scientific review or in edited collections.

The indicator groups from group A give 50 points, group B - 290 points, group D - 235 points, group E - 120 points and from group E - 50 points. Twelve citations in scientific publications referenced and indexed in world-renowned databases with scientific information are presented. The author's reference for the contribution of the candidate's works includes 7 pages.

The analysis of the submitted materials shows that even without taking into account the cited publication, the requirements of the Act on the Development of the Academic Staff in the Republic of Bulgaria and the regulations for its implementation are met.

3. General characteristics of the candidate's research and applied science activities

The candidate has solid research experience. He has participated in 5 research projects funded by Bulgarian sources. Fourteen out of all thirty-one presented scientific publications are related to the synthesis of control and optimization models. Six of them are related to optimization models for traffic control and eight relate to the management of commercial

enterprises. Nine publications are on the topic of quantitative analysis, resource redistribution and application of modern solutions related to information and communication technologies in business facilities. Eight publications relate to Analysis and evaluation of innovative training approaches.

The research is aimed at solving significant social problems..

4. *Main scientific and scientifically-applied contributions*

The scientific contributions consist of modeling and defining optimization tasks for control urban transport traffic and commercial enterprises. Models for optimal management of resources (raw materials, labor, machines, time, financial resources) in different types and sizes of commercial enterprises (livestock farms, furniture enterprises) have been synthesized. The models and optimization tasks allow for the quantitative reduction of transport indicators, as well as the redistribution of financial and material resources. The defined resource allocation tasks lead to the optimization of business activity.

The scientific and applied contributions include the application of the developed optimization models using solutions related to information and communication technologies.

The scientific and applied contributions also relate to e-learning. A concept has been developed for optimizing the modern technology-based approach to learning and the integration of innovative teaching methods.

5. *Critical remarks and recommendations*

I have no critical remarks to dispute the main scientific-applied and applied contributions of the candidate. The design of the documents does not show any gaps or incompleteness. However, when acronyms or abbreviations are used in a separate document, they should be defined immediately after their first appearance in the text.

The significance of the issues and the results obtained in some works give me reason to recommend that the candidate make more publications in refereed international journals, especially in journals with an impact factor, which represent a large and prestigious forum for their popularization.

CONCLUSION

Based on my acquaintance with the materials of the concourse, taking into account the relevance and significance of the scientific and applied scientific contributions achieved by the candidate, **I recommend Chief Assistant. Dr. Stanislav Dimitrov Dimitrov to take the academic position of "Associate Professor"** in the professional field 5.2 "Electrical Engineering, Electronics and Automation", scientific specialty "Application of the Principles and Methods of Cybernetics in Various Fields of Science", at the Institute of Information and Communication Technologies - BAS.

28.03.2025 год.
Sofia

