

## OPINION

by Assoc. Prof. Dr. Stanislav Gyoshev  
Institute of Information and Communication Technologies,  
Bulgarian Academy of Sciences

### ABOUT

**documents and scientific papers submitted in a competition for the academic position of  
"associate professor"**

**Field of higher education:** 5. Technical sciences

**Professional field:** 5.2. Electrical engineering, electronics and automation.

**Scientific specialty:** Application of the principles and methods of cybernetics in various fields of science,

announced in the State Newspaper No. 105 of 13.12.2024, for the needs of the "Cyber-Physical Systems" department at the Institute of Information and Communication Technologies - BAS with the only candidate Senior Assistant Professor Dr. Stanislav Dimitrov Dimitrov.

By order No. 35 of 12.02.2025 of the Director of IICT-BAS, I am included in the scientific jury for the announced competition for the academic position of "associate professor". By a decision of the scientific jury at a meeting held on 20.02.2025, my participation in the work of the jury was determined by preparing an opinion on the submitted materials. Documents for participation in the competition were submitted by the only candidate, Dr. Stanislav Dimitrov, Chief Assistant Professor in the "Cyber-Physical Systems" department of IICT. As a member of the Scientific Jury, I have received the following materials from the candidate:

1. European-style CV;
2. Copy of diploma for the educational and scientific degree "doctor";
3. Certificate of internship in the specialty;
4. List of scientific publications for participation in the competition;
5. List of citations;
6. Summaries of scientific publications for participation in the competition - in Bulgarian and English;
7. Copies of scientific publications for participation in the competition;
8. Certificate of fulfillment of the minimum requirements of IICT;
9. Certificate of fulfillment of the minimum requirements of NACID;
10. Certificate of original scientific and applied scientific contributions;
11. Declaration that there is no plagiarism proven in accordance with the statutory procedure in scientific works;

#### **1. General characteristics of the presented materials.**

According to the submitted materials, Senior Assistant Professor Dr. Stanislav Dimitrov has acquired the educational and scientific degree "Doctor" in Electrical Engineering, Electronics and Automation, as evidenced by diploma No. 000878 of 27.04.2017, issued by the Bulgarian Academy of Sciences for a defended dissertation on the topic "Application of the Laws of Control Theory in Program Systems.". From 2017 to the present, he has successively held the positions of "Assistant" and "Senior Assistant" at IICT-BAS, where he has a total work experience of 5 years and 4 months. The attached references for fulfilling the minimum national

requirements and the requirements of IICT-BAS for holding the academic position of "Associate Professor" show that the requirements for all groups of indicators A, B, Г, Д and E have been met and exceeded. A signed declaration of originality of the results in the scientific works is attached. All materials presented by Dr. Dimitrov have been prepared in accordance with the Law on Academic Affairs of the Republic of Bulgaria, the Law on Academic Affairs of the Republic of Bulgaria, as well as the Regulations on the Specific Conditions for Acquiring Scientific Degrees and for Holding Academic Positions at IICT-BAS.

## 2. Evaluation of scientific papers.

For participation in the competition under indicator B4 "Habilitation thesis" 10 publications have been submitted that are referenced and indexed in world-renowned databases of scientific information, one of which is in quartile Q1 and one in quartile Q2 of WoS. The publications are co-authored, and in four of them the candidate is the first author. Under indicator Г7 "Scientific publications in publications that are referenced and indexed in world-renowned databases of scientific information" 9 publications have been submitted that are referenced and indexed in WoS and/or Scopus. One of them is in a publication with IF in quartile Q1 of WoS and one in quartile Q1 of WoS. All publications are described according to the approved standard and do not repeat those for acquiring the educational and scientific degree "doctor". In essence, the candidate's works are of a scientific and scientifically applied nature, in the field of science, education in the field of information technologies and relate to the development and application of methods for collecting, processing, analyzing and evaluating data through the use of modern computer technologies. The results obtained have been published in highly prestigious publications, which testifies to their high assessment and international recognition. The scientific works submitted for the competition undoubtedly show that the candidate Senior Asst. Dr. Stanislav Dimitrov possesses in-depth knowledge, accumulated experience, and significant achievements in his research activities.

## 3. Evaluation of citations

The presented list of citations includes a total of 39 citations of 11 of the candidate's works. The noted citations are in works by our and foreign authors for the period 2018-2024. The majority of the citations are in prestigious publications that are indexed and referenced in the scientific information databases Scopus and Web of Science. The cited author's works are also in well-known scientific journals, reports at international conferences, Springer publications, etc. The presented data on the noted citations show that the candidate's scientific results have aroused wide interest and have been reflected in the works of both our and foreign scientists in the field of informatics and computer technologies.

The reference from the databases Scopus, Web of Science and Google Scholar shows the following indicators of the candidate.

	Scopus	Web of Science	Google Scholar
h-index	4	6	4
Author documents	18	22	13
Citations	48	209	51

## 4. Scientific and scientific-applied contributions.

Despite the excessively detailed and verbose description of the contributions specified in the attached reference of the candidate, I accept and evaluate them positively. They can be defined as scientific and scientifically applied as follows.

*- Scientific contributions:*

Scientific contributions consist in modeling and defining optimization tasks for management. They include optimization tasks for transport traffic management and financial management of business facilities.

Models and optimization tasks allow to determine a quantitative reduction in transport indicators; redistribution of financial and material resources. The defined resource allocation tasks lead to optimization of business activity.

*- Scientifically applied contributions:*

Scientifically applied contributions include the application of the developed optimization models using ICT solutions.

Scientifically applied contributions also relate to e-learning through analysis and development of innovative training approaches.

#### **4. General description of the applicant's activities.**

The candidate's works demonstrate active scientific and research activity and contain original scientific and scientifically applied results in the field of informatics and computer technologies. As a chief assistant at the Institute of Information and Communication Technologies-BAS, Dr. Dimitrov actively participates in the implementation of projects at the Scientific Research Fund and the work in the national scientific "Intelligent Animal Husbandry".

#### **5. Notes and recommendations.**

I have no substantive comments on the materials submitted for the competition. Considering the results achieved so far, my recommendation is to continue the scientific and research activity with the preparation and publication of independent publications in prestigious national and international publications.

### **CONCLUSION**

The materials of the competition and the results presented in them of the candidate satisfy the requirements of the Law on the State of the Republic of Bulgaria on the State of the Republic of Bulgaria, the Regulations for its implementation, as well as the Regulations on the specific conditions for acquiring scientific degrees and occupying academic positions in the Institute of ICT. My assessment of the overall activity of the candidate is positive.

I strongly recommend to the respected Scientific Jury to vote on a proposal to the Scientific Council of IICT-BAS for the election of Ch. assistant Dr. Stanislav Dimitrov to the academic position "associate professor" in Professional field: 5.2 Electrical engineering, electronics and automation, scientific specialty: Application of the principles and methods of cybernetics in various fields of science, for the needs of the "Cyber-Physical Systems" department at IICT-BAS.

Sofia, 09.04.2025

Au

НА ОСНОВАНИЕ  
331А

Gyoshev)