

## STATEMENT

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## ABOUT

**documents and scientific papers presented in a competition for the academic position**

**“Associate Professor”**

Field of higher education: 5. Technical sciences;

Professional field: 5.2 Electrical engineering, electronics and automation;

Specialty: Application of the principles and methods of cybernetics in various fields of science, published in the State Gazette No 105/13.12.2024 for the needs of the department

„Cyber-physical systems“

in the Institute of Information and Communication Technologies – BAS

with the only candidate in the competition: Chief Assist. Prof. Stanislava Dimitrova Dimitrova, Ph.D.

By order No 35/12.02.2025 of the Director of the Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences (IICT-BAS), I am included in the Scientific Jury of the competition for the academic position “Associate Professor” published in the State Gazette No 105/13.12.2024. Materials for the competition are submitted by the only candidate Stanislava Dimitrova, Ph.D., Chief assist. prof. at IICT-BAS. As a member of the Scientific Jury, I have received the following materials from the candidate, meeting the requirements of IICT-BAS:

1. Application for participation in the competition;
2. European CV;
3. Copy of diploma for the educational and scientific degree “Ph.D.”;
4. Certificate of internship in the specialty;
5. List of scientific publications for participation in the competition;
6. List of citations;
7. Summaries of scientific publications for participation in the competition - in Bulgarian and English;
8. Copies of scientific publications for participation in the competition;
9. Information on fulfillment of the minimum requirements of IICT;
10. Information on the original scientific and scientific-applied contributions;
11. Declaration that there is no legally proven plagiarism in scientific works.

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

The presented CV shows that the candidate received the educational and scientific degree "Ph.D." at the Institute of Information and Communication Technologies - BAS, in the period 2011-2014. The reference on the fulfilment of the requirements of IICT-BAS for the academic position of Associate Professor shows that the requirements for all groups of indicators have been met and exceeded. The review of the materials submitted by the candidate, Dr. Stanislav Dimitrov, shows that they have been prepared in accordance with the Act for Academic Growth, the Regulations for its implementation, as well as the Rules for the specific conditions for the acquisition of academic degree and occupation of academic positions at IICT-BAS.

### **Evaluation of the scientific work.**

To participate in the competition, the applicant submitted a list of 10 scientific publications in journals that are refereed and indexed in world-renowned databases of scientific information. Beyond this number, the applicant contributes with 9 publications refereed and indexed in worldwide databases, 12 in peer-reviewed journals or edited collective volumes.

The scientific publications corresponding to the group of indicators B4 are 10 in the period 2020-2024, and the candidate is the first author in two of them. Two stand-alone ones are available. One of the publications (B.10) is not available in the refereed databases, a check in the journal shows that it was published under the first author, and the journal is present in the refereed databases without interruption. This suggests a possible omission that is not the fault of the authors. Publications that continue the theme are available in Group G, and B.10 may be replaced by G7.3. The publications in Group G total number 21. Published between 2017 and 2024, 9 of which are in the G7 indicator, referenced in world-renowned databases. It is noteworthy to see an article published in Scopus Q1, which is co-authored with established scientists. In indicator G7, a solo publication is available, and in 2 of them, the candidate is the first author. The publications corresponding to indicator G8 are 12, the candidate is first author in 7 of them, and again a solo publication is present.

The scientific works presented by the candidate do not repeat the publications for the doctoral degree.

In general, the presented works contain scientific and applied results related to the application of optimization problems in different aspects, allowing the management and redistribution of resources and flows. The results achieved show that the candidate possesses in-depth knowledge, high competence and accumulated experience in the field of competition.

### **Evaluation of the citations.**

In the presented list of citations, most citations of the candidate's works are in the works of authors in publications that are indexed and referenced in the scientific information database Scopus, citations in foreign publications are also noticeable. The candidate has provided 13 citations referenced and indexed in world-renowned scientific information databases and 16 citations or reviews in non-refereed peer-reviewed journals.

### **Scientific and scientific-applied contributions.**

I accept and positively evaluate the scientific and applied contributions of the candidate, as indicated in the attached reference of contributions. They are scientific and applied in the field of management and optimization in urban traffic, business entities and learning approaches. The research in urban traffic focuses on optimization problems for road network management. Synthesized models for resource management in business entities are proposed. In the area of training, the actual use of ICT resources in education is reported.

### **General characteristics of the candidate's activity.**

The candidate of the current competition Stanislav Dimitrov Ph.D. has a Master's degree from the University of Chemical Technology and Metallurgy - Sofia. He has a total work experience in IICT-BAS for over 16 years, of which as a Chief Assistant for over 5 years. During this period he has been a Ph.D. student, programmer and Chief Assistant. The publications submitted for the competition show the active publication activity of the candidate and contain original scientific and scientifically applied results in the field of Technical Sciences. He has participated as a member of the team in projects from the National Science Fund, one project funded by National Scientific Program.

### **Critical notes and recommendations.**

I have no critical notes with which to challenge the scientific and applied contributions of the candidate. There are no separate protocols provided for the contributions in the evaluated papers, for this reason I consider the authors to have equal participation. I would recommend that in the future activity of the candidate should focus on publishing in foreign scientific forums. In terms of structuring, I would recommend more thorough preparation and vetting.

### **Conclusion**

The materials of the competition and the presented results of the candidate satisfy all the requirements under the Act of the Development of the Academic Personnel of the Republic of Bulgaria, and the Rules of the Academic Personnel of the Republic of Bulgaria, the Rules for the conditions and the procedure for acquiring scientific degrees and for the occupation of academic position in the Bulgarian Academy of Sciences and the Rules for the specific conditions for the acquisition of the academic degrees and the occupation of academic positions in the Institute of Information and Communication Technologies. My assessment of the overall activity of the candidate is **positive**.

I strongly recommend the esteemed Scientific Jury to vote a proposal to the Scientific Council of IICT-BAS for the election of Stanislav Dimitrov Dimitrov Ph.D. to the academic position of "Associate Professor" in Professional: 5.2 Electrical engineering, electronics and automation, specialty "Application of the principles and methods of cybernetics in various fields of science" for the needs of Department" Cyber-physical systems " at the IICT-BAS.

Date:

10.04.2025

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