

## STATEMENT

by Assoc. prof. DSc Eng Teodora Petrova  
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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: Automated Information Processing and Control Systems, published in the State  
Gazette No 10/27.01.2026 for the needs of the department

„Distributed Information and Control Systems“

in the Institute of Information and Communication Technologies – BAS

with the only candidate in the competition: Chief Assist. Prof. Ph.D Yordanka Lyubomirova Boneva.

By order No 74/27.03.2026 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 10/27.01.2026. Materials for the competition are submitted by the only candidate Ph.D. Yordanka Lyubomirova Boneva, 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 attached curriculum vitae indicates that the candidate obtained the educational and scientific degree of "PhD" at the Institute of Information and Communication Technologies – Bulgarian Academy of Sciences (IICT-BAS) during the period 2017 – 2020. The reference for fulfillment of the IICT-BAS requirements for the academic position of "Associate Professor" shows that the requirements across all groups of indicators have been met and significantly exceeded. A review of the materials submitted by the candidate PhD Yordanka Boneva demonstrates that they have been prepared in accordance with the ADASRB, the Regulations for its implementation, as well as the Regulations on the specific conditions for acquiring scientific degrees and occupying academic positions at IICT-BAS.

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

To participate in the competition, the candidate submitted a list of 11 scientific publications in editions that are peer-reviewed and indexed in world-renowned databases of scientific information, which fulfill criterion B4 (Habilitation Work). Apart from this number, the candidate participates with 7 peer-reviewed and indexed publications in global databases (indicator G7), and 9 in peer-reviewed journals or edited collective volumes (indicator G8).

The scientific publications corresponding to the group of indicators B4 are 11 in total, within the period 2021–2024, with the candidate being the first author in five of them; two of the publications are single-authored. Group G includes publications that continue the research theme, with a total of 16 publications in this group. Published in the period 2016–2024, 7 of these fall under indicator G7, indexed in world-renowned databases. Under indicator G7, there is one single-authored publication, and one is published in Scopus Q3. The publications corresponding to indicator G8 are 9, 4 of which are single-authored, and the candidate is the first author in 2 of them.

The scientific works presented by the candidate do not repeat the publications used for obtaining the PhD degree. Overall, the submitted works contain scientific and scientific-applied results related to the application of optimization problems in various aspects, allowing for the management and redistribution of resources and flows. The achieved results demonstrate that the candidate possesses profound knowledge, high competence, and accumulated experience in the field of the competition..

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

In the presented list of citations, most of the citations of the candidate's works are in publications by authors in editions indexed and peer-reviewed in the Scopus scientific information database (10 citations). The list of citations is detailed and comprehensive. The candidate has also presented 8 citations in non-peer-reviewed journals with scientific review, with a large part of these citations being in foreign editions.

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

I accept and evaluate positively the candidate's scientific and scientific-applied contributions, as specified in the attached contribution report. They have a scientific and applied focus within the field of contemporary urban environment development concepts, specifically the management and optimization

of urban traffic, business entities, and educational approaches. A key research theme within the implementation of the "Smart City" concept is the development of new technologies to ensure urban mobility. Research in urban traffic is focused on optimization problems for road network management. Synthesized models for resource management in business facilities have been proposed. In the field of training, the practical utilization of ICT resources in education has been accounted for.

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

The candidate in this competition, PhD Yordanka Boneva, completed her Master's degree at the University of Library Studies and Information Technologies – Sofia. She has a total professional experience of over 13 years at IICT-BAS, of which more than 5 years as a Chief Assistant Professor. During this period, she has held positions as a doctoral student, programmer, and Chief Assistant Professor. The publications submitted for the competition demonstrate the candidate's active publication record and contain original scientific and scientific-applied results in the field of higher education in Technical Sciences. She has participated as a team member in numerous projects under the NSF and the National Research Programme "Intelligent Animal Husbandry."

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

I have no critical remarks to contest the candidate's scientific-applied contributions. No separation protocols for the contributions in the evaluated works have been provided; therefore, I consider the authors to have equal participation. I would recommend that the candidate summarize the results of her research activities in a monograph dedicated to the implementation of the "Smart City" concept.

#### **Conclusion**

The competition materials and the results presented therein satisfy all requirements of the ADASRB, the Regulations for its implementation, the Regulations on the terms and procedures for acquiring scientific degrees and occupying academic positions at the Bulgarian Academy of Sciences, as well as the Regulations on the specific conditions for acquiring scientific degrees and occupying academic positions at IICT. My evaluation of the candidate's overall activity is **positive**.

For me, the significance of the submitted scientific works is indisputable, and the contributions within them are sufficient, which provides me with the grounds to propose to the esteemed Scientific Jury to vote on a recommendation to the Scientific Council of IICT-BAS for the election of PhD Yordanka Lyubomirova Boneva to the academic position of "Associate Professor" in Professional Field: 5.2 Electrical Engineering, Electronics and Automation, specialty "Automated Information Processing and Control Systems" for the needs of the "Distributed Information and Control Systems" section at IICT-BAS.

Date:

23.04.2026

