

## OPINION

by **Prof. Lyubka Atanasova Doukovska, PhD, DSc**  
from the Institute of Information and Communication Technologies,  
at the Bulgarian Academy of Sciences,  
on the Competition for the academic position “**Associate Professor**”,  
under the Scientific Field: 4. Natural Sciences, Mathematics and Informatics,  
the Professional Area: 4.6. Informatics and Computer Sciences,  
the Scientific Specialty: 01.01.12. Informatics,  
for the needs of the Hierarchical Systems Department  
of the Institute of Information and Communication Technologies - BAS,  
announced in Darjaven Vestnik No. 41 of 21.05.2019  
with a participant - **Assistant Professor Boriana Emilova Vatchova, PhD**

In accordance with Order No. 180 of July 19, 2019 of the Director of the Institute of Information and Communication Technologies - BAS, I was included in the Scientific Jury of the competition for occupation of the academic position “Associate Professor” in the Scientific Field 4. Natural Sciences, Mathematics and Informatics, the Professional Area 4.6 Informatics and Computer Science, the Scientific Specialty 01.01.12. “Informatics”, announced in the Darjaven Vestnik, Issue 41 of May 21, 2019, for the needs of the Hierarchical Systems Department at the Institute of Information and Communication Technologies - BAS, with the sole participant in the competition - Assistant Professor Boriana Emilova Vatchova, PhD.

As a member of the Scientific Jury I have received:

1. Application for participation in the competition by Assistant Professor Boriana Emilova Vatchova, PhD.
2. A European Curriculum Vitae of Assistant Professor Boriana Emilova Vatchova.
3. Copy of the diploma for educational and scientific PhD degree of Assistant Professor Boriana Emilova Vatchova.

4. Certificate of internship in the specialty of Assistant Professor Boriana Emilova Vatchova.

5. List of the activities of Assistant Professor Boriana Emilova Vatchova, according to Art. 57 a of the *Development of Academic Staff Act in the Republic of Bulgaria*.

6. List of scientific publications, with which the applicant Assistant Professor Boriana Emilova Vatchova, PhD participates in the competition, which do not repeat the ones submitted for the PhD degree.

7. List of noted citations of Assistant Professor Boriana Emilova Vatchova, publications for participation in the competition for the academic position "Associate Professor".

8. Abstracts of Assistant Professor Boriana Emilova Vatchova, scientific publications, for participation in the competition for academic position "Associate Professor".

9. Copies of Assistant Professor Boriana Emilova Vatchova, scientific publications for participation in the competition for academic position "Associate Professor".

10. Reference for fulfillment of the minimum national requirements under Art. 2b, # 2 and # 3 and the requirements of the Institute of Information and Communication Technologies - BAS under Art. 2b, # 5, based on the documents submitted for the competition by Assistant Professor Boriana Emilova Vatchova.

11. Reference for the original scientific and applied scientific contributions of Assistant Professor Boriana Emilova Vatchova.

12. Declaration that there is no proven plagiarism in the scientific works of Assistant Professor Boriana Emilova Vatchova.

In accordance with the requirements of the *Development of Academic Staff Act in the Republic of Bulgaria* and the specific requirements in the Act's Institutional Regulation, the candidates for occupying the academic position of "Associate Professor" must meet the following conditions, regulated in Art. 24. (1):

1. Have acquired an educational and scientific PhD degree;
2. Have held for at least two years the academic position of Assistant Professor;



3. Have submitted published monographs or equivalent publications in specialized scientific publications that do not repeat the ones submitted for the PhD degree;

4. To comply with the minimum national requirements under Art. 2b, # 2 and # 3, respectively, of the requirements of art. 2b, # 5;

5. Not to have plagiarism in the scientific publications proven by the legislation order.

According to the submitted materials for the competition, Assistant Professor Boriana Emilova Vatchova has acquired the educational and scientific PhD degree, as evidenced by the diploma No. 33111 of April 22, 2009, awarded to her by the Higher Attestation Commission with Protocol No. 11 of April 8, 2009, in the Scientific Specialty 02.21.10. Application of the Principles and Methods of Cybernetics in Different Fields of Science.

The presented certificate for work experience in the specialty No. 630 of July 08, 2019 shows that Assistant Professor Boriana Emilova Vatchova works on a basic employment contract at the Institute of Information and Communication Technologies - BAS and has a length of service as an Assistant Professor for 24 years until the issue of the document.

According to the abstracts of the scientific publications for participation in the competition, Assistant Professor Boriana Emilova Vatchova has presented a monographic work entitled "Extraction of Knowledge with Methods of Artificial Intelligence and Multivalued Logic" and 15 publications in specialized international journals and collections of papers at international conferences.

I accept the contributions formulated in the report on the results of the candidate's research activities in the works with which Assistant Professor Boriana Emilova Vatchova participates in the competition and those results are scientifically applied and can be defined to be enriching the existing scientific field with new knowledge.

Present is a list of 15 citations of the Assistant Professor Boriana Emilova Vatchova publications. I take that those citations are at the moment of submission of documents and no new ones are included.

According to the information presented by Assistant Professor Boriana Emilova Vatchova, for meeting the minimum requirements of the Institute of Information and Communication Technologies - BAS, she fulfills the minimum requirements for indicators A, C, D, E and E for the Professional Area 4.6. Informatics and Computer Science.

I accept the Declaration submitted by the applicant that there is no legally proven plagiarism in the scientific papers presented for this competition.

**In conclusion**, I agree that the requirements of the Law for the *Development of Academic Staff Act in the Republic of Bulgaria* and the specific requirements in the Act's Institutional Regulations for its implementation, the Rules for the conditions and the order for acquiring academic degrees and for the occupation of academic positions in BAS and the Rules for the specific conditions for acquisition of academic degrees and occupation of academic positions at the Institute of Information and Communication Technologies - BAS are accomplished. After getting acquainted with the materials submitted by the applicant for the competition, I give my positive estimation about the choice of **Assistant Professor Boriana Emilova Vatchova** in the competition for the academic position of "**Associate Professor**" for the needs of the Hierarchical Systems Department of the Institute of Information and Communication Technologies - BAS, in the Scientific Field 4. Natural Sciences, Mathematics and Informatics, the Professional Area 4.6. Informatics and Computer Sciences, the Scientific Specialty 01.01.12. Informatics.

I propose that the Scientific Jury unanimously vote for a proposal to the Scientific Council of the Institute of Information and Communication Technologies - BAS, to elect **Assistant Professor Boriana Emilova Vatchova** for the academic position of **Associate Professor** in the Scientific Field 4. Natural Sciences, Mathematics and Informatics, the Professional Area 4.6. Informatics and Computer Sciences, the Scientific Specialty 01.01.12. Informatics.

09.09.2019

Sofia

Signature: .

**NOT FOR  
PUBLIC RELEASE**

/Prof. Lyubka Doukowska, PhD, DSc/