

OPINION



Related to a competition for the Academic position of 'Associate Professor',

in the field of higher education 5. Technical sciences

professional field

5.3. Communication and computer technology

with a candidate

Chief Assistant Professor Elisaveta Trichkova-Kashamova, Ph.D.

Prepared by Professor Olympia Nikolaeva Roeva,

Institute of Biophysics and Biomedical Engineering,

Bulgarian Academy of Sciences

Member of Scientific Jury according to the Order № 338 / 25.11.2022

of the Director of the Institute of Information and Communication Technologies – Bulgarian Academy of Sciences, Corresponding Member S. Marginov, D.Sc.

The competition for the Academic position of 'Associate Professor', in the field of higher education 5. Technical sciences, professional field 5.3. Communication and computer technology, for the needs of the Department Distributed Information and Control Systems, Information and Communication Technologies (IICT) – Bulgarian Academy of Sciences (BAS) is announced in State Gazette Vol. 77/27.09.2022 according to the requirements in Act on the Development of the Academic Staff in the Republic of Bulgaria (ADASRB) and Regulations of ADASRB – IICT, BAS.

Documents for participation in the competition were submitted by candidate – Chief Assistant Professor Elisaveta Trichkova-Kashamova, Ph.D. The documents for the

competition are presented in accordance with the Regulations of ADASRB – Information and Communication Technologies – BAS.

According to the ADASRB and Regulations of ADASRB and Chapter 5 from Regulations on the specific conditions for obtaining scientific degrees and for holding academic positions in IICT – BAS, the candidate for the Academic position of 'Associate Professor' Ch. Assist. Prof. Elisaveta Trichkova-Kashamova fully meets the specified conditions and requirements.

Ch. Assist. Prof. Elisaveta Trichkova-Kashamova has defended her Ph.D. Thesis "Optimization of processes in information systems" (September 15, 2014), she was awarded the educational and scientific degree "Ph.D." in the Communication and Computer Technology. She works on a basic employment contract and her work experience is 18 years and 6 months, including as a Chief Assistant Professor – 7 years.

General description of the submitted materials regarding the research activity of the candidate

Ch. Assist. Prof. Elisaveta Trichkova-Kashamova, participated in the competition with the following materials:

1. B4: Habilitation work - scientific publications (not less than 10) published in sources that are refereed and indexed in world-renowned databases with scientific information – 10, including 3 publications with SJR.
2. Г7: Scientific publications published in sources that are refereed and indexed in world-renowned databases with scientific information – 2 publication with SJR.
3. Г8: Scientific publications in unrefereed journals with scientific review or in edited collective volumes – 13.

Ch. Assist. Prof. Elisaveta Trichkova-Kashamova is the independent author of 12 publications, and in 6 she is the first author, which gives reason to believe that the candidate is the leading researcher in these studies. Her participation in a number of international conferences is impressive, which shows not only the

achieved wide dissemination of the results, but also seeking active discussion with the scientific community.

The reference of the publishing activity shows that Ch. Assist. Prof. Elisaveta Trichkova-Kashamova significantly (double) exceeds the minimum requirements for holding the academic position of 'Associate Professor' according to ADASRB and Regulations of ADASRB at IICT – BAS (Table 1).

Table 1. Scientometric indicators

Group of indicators	Minimum requirements for holding the academic position of 'Associate Professor'	Number of points of Ch. Assist. Prof. Elisaveta Trichkova-Kashamova
A	50	50
B	100	370
Г	220	263
Д	60	180
E	20	110
Total	450	973

A list of 26 citations of the publications is presented with which Ch. Assist. Prof. Elisaveta Trichkova-Kashamova participates in the competition. The presented citations exceed the recommended requirements for citations.

A search in Scopus shows that the candidate has 12 indexed publications, 7 citations (with excluded self-citations) and h-index = 1. My recommendation is that, in the future, the candidate should publish more in publications that are indexed in Scopus and WoS.

Participation in research projects

According to the presented documents Ch. Assist. Prof. Elisaveta Trichkova-Kashamova has participated in a total of 8 research projects (5 national and 3 international). She was not a project manager. Ch. Assist. Prof. Elisaveta Trichkova-

Kashmova is very active in research activities and I hope that in the future she will win and lead scientific projects.

Scientific contributions

Scientific-applied and scientific contributions of Ch. Assist. Prof. Elisaveta Trichkova-Kashamova can be summarized as follows:

1. Scientific contribution

A topological synthesis was made and an optimal solution was determined for the technological and structural improvement of a communication network by means of information flow modelling and management.

2. Scientific-applied contributions

2.1. The potential of various types of modern systems and technologies for the application of intelligent management solutions in the field of animal husbandry is analysed. As a result of the analysis, conclusions and recommendations were made, supporting the decision-maker, for sustainable development and management of the subject (farm).

2.2. Methods, approaches and tools for modelling, implementation, monitoring and analysis of work (business) processes have been analysed and a technological solution has been developed that allows the implementation of automation in information activities and services with the help of Workflow technologies.

2.3. An approach has been developed for quantitative assessment of the quality and efficiency of information systems in various subject areas.

I accept the candidate's contributions, but in my opinion, there is a lack of specificity in their formulation. For example:

- "As a result of the analysis, conclusions and recommendations have been made to assist the decision maker" – Aren't the conclusions specifically drawn the most important? The specific conclusions and recommendations are actually the contribution to the field, not the fact that they are "drawn".

- "An approach has been developed for quantitative assessment of the quality and efficiency of information systems" – What are the reasons for presenting this approach as a contribution? How is it better than the existing ones? What are its advantages over other existing solutions?

The publications presented for participation in the competition for Academic position of 'Associate Professor' show the scientific research activity and efficiency of Ch. Assist. Prof. Elisaveta Trichkova-Kashamova, as well as her contribution. Her research is up-to-date and significant, and I hope that the candidate will continue to work and contribute to the development of the field in which she works.

CONCLUSION

Based on the above, I highly evaluate the scientific and scientific-applied work of Ch. Assist. Prof. Elisaveta Trichkova-Kashamova.

All requirements, conditions and criteria of ADASRB, Regulations for the implementation of ADASRB, Regulations for the implementation of ADASRB in IICT – BAS are met and I give a positive conclusion for the election of Ch. Assist. Prof. Elisaveta Trichkova-Kashamova in a competition for Academic position of 'Associate Professor' in the professional field 5.3. Communication and computer technology.

I propose to the esteemed Scientific Jury to vote a proposal to the Scientific Council of IICT – BAS to elect Ch. Assist. Prof. Elisaveta Trichkova-Kashamova for the Academic position of 'Associate Professor' in the field of higher education 5. Technical sciences, professional field 5.3. Communication and computer technology.

20.01.2023 г.

Scientific Jury memt

НА ОСНОВАНИИ

ЗЗЛД