

OPINION

for a competition for occupation of the academic position "Professor"

in the field of higher education:	4. Natural sciences, Mathematics and Informatics
professional field:	
scientific specialty:	4.6. Informatics and Computer Science
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	Information Processes and Decision Support Sand
	Department Support Systems

The opinion is prepared by:

Dr. Desislava Ivanova Paneva-Marinova, Professor at the Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, as a member of the scientific jury of the competition, according to Order № 115/04.05.2022 of the Director of IICT-BAS.

Only one candidate has submitted documents for participation in the announced competition:

Assoc. Prof. Vassil Georgiev Gulyashki, PhD, IICT-BAS

I. General description of the submitted materials

1. Details of the application

The applicant Assoc. Prof. Vassil Georgiev Gulyashki, PhD has submitted for the competition:

one co-authored monograph, one book (declared as a book chapter), one book chapter, eight publications in scientific journals and eleven publications in proceedings of international conferences (thirteen of them have impact factor and/or impact rank, and the other five are indexed in Web of Science, Scopus, IEEE Xplore, ACM Digital Library).

Total: Twenty-two scientific publications.

Scientific works, eligible for consideration, are those which: 1) have not been used for the acquisition of the educational and scientific degree "Doctor" and for the academic position "Associate Professor", 2) are relevant to the subjects of the competition and 3) meet the minimum national requirements under Art. 2b, para. 2, para. 3, and para. 5 of the Act of the Development of the Academic Personnel of the Republic of Bulgaria (ADAPRB).

To take part in the competition, the applicant has submitted: an application for admission to the competition, a professional curriculum vitae in accordance with the European Union format, a copy of a diploma for educational and scientific degree "Doctor", a list and copies of the publications presented at the competition, a reference for original scientific and applied scientific contributions, abstracts of the publications presented at the competition in Bulgarian and in English, a list of citations presented at the competition, a certificate of internship on the subject, a reference for the fulfillment of the minimum national requirements under Art. 2b, para. 2, para. 3 and para.5 of ADAPRB, prepared on the basis of documents, submitted for the competition, a reference for teaching activity, a declaration for absence of plagiarism in scientific works, proven according to the legal procedure.

2. Details of the applicant

The candidate has twenty-seven years of professional experience working at the Institute of Information and Communication Technologies-BAS (2010-2022) and Institute of Information Technologies-BAS (1995-2010). He has received his doctoral degree in 1994 from the Higher Attestation Commission. (Diploma of Candidate of Technical Sciences №23432/20.02.1995, Minutes №05/19.12.1994 issued by the Higher Attestation Commission). He has received an academic rank "Associate Professor" in 2010 in IICT-BAS. He has thirteen years and eight months of experience as an Associate Professor.

3. General characteristics of the scientific works and achievements of the candidate

The applicant has worked and submitted publications in the following areas of the competition:

- The optimal design and implementation of technical systems;
- Formulation of models, development of methods, algorithms and approaches for multi-criteria
- Formulation of models, development of methods, algorithms and approaches for singlecriteria optimization.

The quantitative indicators of the criteria for the academic position "Professor" have been met in general, according to ADAPRB, and in particular according to the Rules for the conditions and the order for acquiring scientific degrees and for occupying academic positions at IICT-BAS, Art.3, Table of the minimum points required, by groups of indicators for different degrees and academic positions, field of higher education: 4. Natural sciences, Mathematics and Informatics, professional fields: 4.5. Mathematics and 4.6. Informatics and Computer Science, in particular:

- six publications with a total of 108 points (100 points required) in Group "B";
- fifteen publications with a total of 265 points (260 points required) in Group "Γ";
- seventy-one citations with a total of 284 points (140 points required) in Group "Д";
- Total of 283,1 points in Group "E", Certified with: supervision of one successfully defended PhD student; participation in one national scientific or educational project; participation in seven international scientific or educational projects; supervision of three national scientific or educational projects; funding for three projects managed by the candidate.

No plagiarism has been established in the scientific papers submitted at the competition.

4. Characteristics and evaluation of teaching, project work and other activities

Teaching and pedagogical activities mostly include lecture activities at universities abroad under the projects CEEPUS and ERASMUS+. The candidate has given lectures at the Technical University in Sofia under the project №BG051PO001-3.3.06-0046, the Human Resources Development Operational program. The candidate is a supervisor of one successfully defended PhD student.

The candidate has managed or participated in more than twenty national or international research projects funded by the National Scientific Fund, the Ministry of Education and Science, Operational programs of EC, NATO, *etc*.

5. Analysis of the scientific and applied research of the candidate, contained in the materials for participation in the competition

The candidate's scientific works are on the topic of the competition, in renowned scientific conferences or scientific journals. The main focus of the scientific works is related to the optimal design and implementation of software systems and the creation of new models, methods, algorithms and approaches for single and multi-criteria optimization.

The candidate's participation in numerous international research projects makes him a sufficiently recognizable scientist, which is confirmed by the number of citations of his publications. This conclusively confirms that the candidate is an internationally recognized scientist whose scientific achievements are known, significant and cited.

6. Critical remarks and recommendations

I have no critical remarks on the peer-reviewed works and activities of the candidate, as well as on the future use of the scientific and applied contributions of the candidate.

7. Conclusion for this application

Having reviewed the materials and scientific papers submitted to the competition and based on the analysis of their significance and the scientific and applied contributions contained within them, **I confirm** that the scientific achievements meet the requirements of the ADAPRB, the Rules of its implementation, the Rules for the conditions and the order for acquiring scientific degrees and for occupying academic positions in BAS and IICT-BAS. No plagiarism has been established in the scientific papers submitted at the competition.

I give a positive assessment of the application of Assoc. Prof. Vassil Georgiev Gulyashki, PhD.

II. Overall conclusion

After getting acquainted with the scientific papers and materials presented in the competition, analyzing their significance and the scientific and applied contributions contained in them, I find it reasonable to give my positive assessment and to recommend the scientific jury to vote on a proposal to the Scientific Council of IICT-BAS to select Assoc. Prof. Vassil Georgiev Gulyashki, PhD to take

the academic position of "Professor" in the field of higher education 4. Natural sciences, Mathematics and Informatics, professional field 4.6. Informatics and Computer Science, scientific specialty Informatics.

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1.07.2022

Member of the Scientific Juree: