

STATEMENT

on the submitted documents for participation in a competition announced in SG 21 / 15.03.2022 for holding the academic position of "Associate Professor" in the professional field 5.3 Communication and computer technology,
from
Professor Dr. Kostadin Grozev Kostadinov, Bulgarian Academy of Sciences, appointed as a member of the scientific jury according to order 135 / 17.05.2022

1. General characteristics of the research and scientific-applied activity of the candidate.

Documents from one candidate - Dr. Elena Paunova-Hubenova - have been submitted for the above-mentioned competition for "Associate Professor".

The presented materials are divided into categories according to the Higher Education Act (HEA), the Academic Staff Development Act in the Republic of Bulgaria (ACASR) and the Regulations on Specific Conditions for Acquisition of Scientific Degrees and for Occupying Academic Positions at IICT - BAS. 26 publications have been submitted for participation in the competition, 16 of which have been referenced in the world databases SCOPUS or Web of Science, and 5 of them have been indexed with the SJR indicator. The research activity of the candidate is entirely in the professional direction of the announced competition, and the presented publications have not participated in a previous competition. The candidate fully meets the minimum national requirements, as well as those in the Regulations of IICT - BAS for holding the position of "Associate Professor". The indicators by categories are distributed as follows:

Indicator A (50 out of 50 required min points): A diploma for scientific educational degree "Doctor" from IICT - BAS dated 10.10.2013 for a defended dissertation on "Design and development of electronic games for students as a web-based service" was presented.

Indicator B (165 out of 100 required min points): Dr. Elena Paunova-Hubenova presented a list of 10 publications equivalent to a habilitation thesis - monograph. All of them are indexed in the global databases SCOPUS or Web of Science.

Indicator D (240 out of 220 required min points): The applicant submitted a list of 16 publications, 6 of which are indexed in world-renowned databases. Two of them are copyrighted and the others are co-authored.

Indicator E (162 out of 60 required min points): The citations presented exceed the required minimum number several times. The reference is detailed and accurate, as most of the citations are in publications in the world databases SCOPUS or Web of Science (the E12 - E13 copies), and the rest are in unrefereed publications with scientific review (the E14 - E16 copies).

Indicator F (74 out of 20 required min points): Dr. Elena Paunova-Hubenova presented a report on participation in research projects related to the competition. The candidate is the project leader of one of them, and in the others, she is a team member.

2. Main scientific and scientific-applied contributions

I accept the six scientific and scientific-applied contributions formulated by Dr. Elena Paunova-Hubenova. Each contribution is validated with the cited articles in which the main research and the results obtained are reviewed and published.

Item 3 has been added to the list of contributions. Other activities presenting the candidate's consulting work in the study "Assessment of the impact of distance learning in electronic environment or other absent forms on the effectiveness of school education" commissioned by the Ministry of Education and science.

All contributions are on the topic of the competition and I believe that they are due to the personal work of the candidate.

3. Significance of contributions to science and practice

The main part of the contributions is focused on the current topic of the application of information and communication technologies in education, as well as the introduction of educational games in schools. This topic has become particularly important in the context of a pandemic in the last two years, when the need to move to distance learning.

In addition, a procedure for designing educational games based on Gunter's software lifecycle model is presented. In its implementation, important improvements are achieved in the developed game.

The scientific and applied contribution in the field of precision animal husbandry is also relevant, which makes it possible to monitor the parameters of many animals in a short time from the information received from sensors on the body of animals.

4. Remarks and recommendations

I have no significant critical remarks about the candidate except for the formulation of the scientific contributions. I would recommend that the description of the contributions be adjusted to be clearer in terms of the results obtained.

It is good to specify the types of articles, in cases where a conference paper is published in a journal.

The remarks made do not detract from the work of the candidate, as they are of an editorial nature and do not affect the points presented above on the various indicators.

5. Conclusion

Based on the analysis of the presented materials, I am convinced that Dr. Elena Paunova-Hubenova meets the requirements for the academic position of "Associate Professor" according to current regulations: the Higher Education Act, the Academic Staff Development Act in the Republic of Bulgaria, the Regulations of BAS for application of the Law for the development of the academic staff in the Republic of Bulgaria and the Regulations for the specific conditions for acquiring scientific degrees and for holding academic positions in IICT-BAS.

I propose to the esteemed scientific jury in the above competition to propose to the Scientific Council of IICT the candidate Dr. Elena Nikolaeva Paunova-Hubenova to take the position of "Associate Professor" in the professional field 5.3 Communication and Computer Engineering.

Sofia
June 8th, 2022

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