

OPINION

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professional field 4.6 Informatics and computer science

on the scientific works for participation in a competition for the academic position of
associate professor, in professional field 4.6. Informatics and Computer Science (Information
Technology), announced in State Gazette 95/16.11.2021,
with the only candidate Chief Assistant Professor Dr. Rossitza Ivanova Goleva

According to the order of Order № 3-PK-94 / 06.01.2022 of the Rector of NBU I have been
appointed to be a member of the scientific jury under the announced procedure and according to
the minutes of the first meeting on 31.01.2022 I have been appointed to prepare an opinion.

1. Assessment of compliance with the minimum national requirements and the requirements of the New Bulgarian University

According to Art. 57a of the Regulations for application of ZRAS in the Republic of Bulgaria (respectively Article 24 of the Law on the Development of Academic Staff in the Republic of Bulgaria and Article 56 of the Ordinance on the Development of Academic Staff of NBU), the members of the scientific jury evaluate candidates for academic position "Associate Professor" according to the fulfillment of the conditions under Art. 53 and in accordance with the results of the inquiries under Art. 54, para. 1. The fulfillment of these conditions is shown in the following table:

| Applicants for the academic position of "Associate Professor" must meet the following conditions: | Presented documents |
|---|---|
| Art. 53, para. 1 to have acquired an educational and scientific degree "Doctor" | Diploma No TUS-FTK78-NS1-037 from 20.07.2016 issued by TU-Sofia |
| Art. 53, para. 2 not less than two years: a) to have held the academic position of "assistant", "chief assistant", or b) to have been lecturers, including part-time, or members of a research team in the same or in another higher school or scientific organization, or c) have practiced artistic activity, or d) have been specialists in practice and have proven achievements in their field | Presented autobiography, list of courses taught at NBU |
| Art. 53, para. 3 to have submitted a published monographic work or equivalent publications in specialized scientific publications or evidence of relevant artistic achievements in the field of arts, which do not repeat the submitted for the acquisition of educational and scientific degree "Doctor" and for the acquisition of scientific degree of Science ”. | Information on fulfillment of the minimum national requirements |
| Art. 53, para 4. to meet the relevant minimum national requirements and the requirements of Art. 1a, para. 2 | Information on fulfillment of the minimum national requirements |

| | |
|--|---|
| Art. 53, para 5. not to have legally proven plagiarism in scientific works | Information on fulfillment of the minimum national requirements |
|--|---|

The implementation of the minimum points in the groups of indicators for the academic position "Associate Professor", according to the specific requirements of the NBU, is as follows:

*Area 4. Natural sciences, mathematics and informatics,
Professional direction 4.6. Informatics and computer science*

| Group of indicators | Content | Associate professor (min. Points) | Presented by the candidate in the competition |
|---------------------|---------------------------------|-----------------------------------|---|
| A | Indicator 1 | 50 | 50 |
| B | Indicator 2 | -- | -- |
| C | Indicators 3 or 4 | 100 | 156 |
| D | Sum of indicators from 5 to 10 | 200 | 261 |
| E | Sum of indicator points 11 | 50 | 160 |
| F | Sum of indicators from 12 to 20 | 0 | 150 |
| G | Sum of indicators from 21 to 33 | 50 | 135 |
| H | Sum of indicators from 34 to 40 | 70 | 70 |
| I | Sum of indicators from 41 to 48 | 50 | 55 |

2. Research activity and results

To meet the indicators of group C, 8 publications are presented, indexed in Scopus, Web of Science, IEEE Xplore Digital Library and ACM Digital Library. One of the publications has an SJR index, and the other 7 are indexed in Scopus. For the indicators from group D 6 publications and 2 chapters from books are presented. All publications are indexed in Scopus, Web of Science, ACM Digital Library and IEEE Xplore Digital Library. For group E – the candidate has attached data for 20 citations from a total of over 300, for 9 of the publications with which he participated in the competition. For group F – the candidate has submitted information for participation in national and international research projects. For the rest groups of indicators, the candidate performance is fulfilled too.

The report from the databases in Scopus, Web of Science and Google Scholar show the following scientometric indicators for the candidate:

| | Scopus | Web of Science |
|-----------------------------------|--------|----------------|
| h-index | 7 | 7 |
| Documents by author | 38 | 24 |
| Citations, without self-citations | 246 | 156 |

From the analysis made in this way it is established that for some of the groups of indicators the candidate has significantly exceeded the defined minimum national requirements and the requirements of the New Bulgarian University.

3. Teaching and learning activities

From the presented reports it can be seen that the teaching activity of Chief Assistant Professor Dr.

Goleva includes classroom courses such as: Operating systems (UNIX/Linux); Information storage networks; Corporate communication networks and technologies; Data storage network; Operating Systems; Operating environment functions and services; Server architectures; Networks and technologies for corporate communications. The candidate Ch. Assistant Professor Dr. Rositsa Goleva has author's teaching materials in the disciplines of operating systems. Under the Erasmus program there are visits and public lectures at the University of Fulda, Germany, the University of Coimbra, Portugal, the University of Twente, the Netherlands and others.

Chief Assistant Professor Goleva has 5 defended diplomas, 10 reviews of diploma theses, as well as 5 participations in diploma defense commissions. She participates as an academic mentor in the national program for student internships of the Ministry of Education and is a coordinator for training through Moodle for the Department of Informatics.

It can be seen that the teaching and learning activities of Chief Assistant Professor Dr. Rossitza Goleva directly corresponds to the topic of the announced competition for the academic position of "Associate Professor" in professional field 4.6. Informatics and computer science.

4. Administrative and public activity

Chief Assistant Professor Goleva has been an active member of the IEEE for more than 20 years and has held various positions in the management of IEEE Bulgaria and for the last 4 years has headed the Bulgarian Telecommunications Section for the IEEE. The candidate Chief Assistant Professor Goleva participated in the organization and holding of the international conference CSECS-2021: 17th Annual International Conference on Computer Science and Education in Computer Science, Boston, MA, United States, September 17-18, 2021. Chief Assistant Professor Rossitza Dr. Goleva has also contributed to the improvement of some programs and the development of courses at NBU, such as the program "Extraction of knowledge and technology for big data".

5. Critical remarks and recommendations

I have no critical remarks to the candidate Chief Assistant Professor Dr. Rossitza Goleva. My recommendations are related to expanding the topic of publications, according to current thematic areas in the field of computer science.

6. Conclusion

Taking into account the fulfillment of all normative requirements, according to law for development of the academic staff in the Republic of Bulgaria, the regulations for its application, as well as the Ordinance for the development of the academic staff of NBU, incl. the reports on the fulfillment of the minimum national requirements, the scientometric indicators from Scopus and Web of Science, and the additional indicators related to the teaching activity, it was established that the candidate fully satisfies the requirements for holding the academic position in the announced competition. **All this gives me enough reason to give a positive assessment and I propose to the scientific jury to vote on a proposal to the Academic Council of the New Bulgarian University - Sofia to choose Chief Assistant Professor Dr. Rossitza Ivanova Goleva for the academic position of "Associate Professor" in the professional field 4.6 "Informatics and Computer Science" (Information Technology).**

Date 24 of March 2022

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