

## **REPORT**

by Prof. DSc **Ivan Nikolov Landjev**, New Bulgarian University

in the competition for the scientific position of “**associate professor**” in New Bulgarian University

Scientific Field: **4. Natural Sciences, Mathematics and Informatics**,

Professional Field: **4.6. Informatics and Computer Science**

announced in “**Darzhaven vestnik**” No 95/16.11.2022

Candidate: **Dr. Rossitza Ivanova Goleva**

### **I. Fulfillment of the minimal national requirements and the requirements of the New Bulgarian University**

The documents related to this call contain an information sheet giving evidence for the fulfillment of the national requirements described in the corresponding material Law and the special requirements of the New Bulgarian University for the position of full professor. I agree with the presented data from which it becomes clear that the candidate fulfills completely the above mentioned requirements. For instance, in group G she presents 22 publications giving 361 points, whereas the requirement is 200 points; in group D she gives 20 citations amounting to 160 points, whereas the requirement is 100 points and so on. The fact that the candidate applies for the position with a far larger scientific production than required by the law and the corresponding regulations creates a most favorable impression.

The presented papers and citations have not been used for acquiring the degree “Doctor” or in other previous applications of the candidate, and particular in connection with her Doctor degree which is in the professional field 5.3. Communication and computer technique.

### **II. Research activities**

1. The main scientific publications of the candidate are in the field of the so-called enhanced living environment platforms. The research on which the publications presented in this application can be divided in several subjects all of which has profound impact on the real life applications. These include: (1) classification and specification of the stakeholders for the enhanced living environment platforms; (2) comparative analysis of the main requirements applicable to the enhanced living environment platforms; (3) design of the architecture of the enhanced living environment platforms; (4) test specifications and use-case scenarios specification of the enhanced living development platforms; (5) development of the services of the enhanced living development platforms in fixed and mobile networks; (6) investigation of mathematical models of the traffic in the enhanced living environment platforms.

The contributions of the candidate in the presented fourteen papers and two chapters in scientific books can be classified as oriented towards the applications. All the publications presented by the candidate are indexed in Web of Science, Scopus or IEEE Xplore. Four of the papers have impact factor (two of them are in Q1), and seven have SJR. All the papers

are authored by Bulgarian and foreign scientists. I accept that the contribution of the candidate in all publications is significant.

2. The candidate provides an impressive list of 20 citations of her scientific papers from a full list of over 300 citations. This shows that her scientific output is well-known and highly valued in the circle of the researchers dealing with enhanced living development systems. The candidate includes only citations that are indexed in the most well-known databases admitted in the law and the related regulations: Web of Science, Scopus, IEEE Xplore. The h-factor of the candidate is 9.
3. The candidate provides a list of four national and four international projects in which he took part in the period 2013-2021. One of these projects is still active. All these projects are scientific projects and are related to different sides of the development of systems for enhanced living. Rossitza Goleva is the coordinator of one project supported by European Commission COST IC1303 entitled “Algorithms, architectures, platforms for enhanced living environments”. The main publications of the candidate correspond fully to the main subject of this project.

All in all, the candidate gives enough evidence for extensive project activities.

### **III. Teaching activities**

Rossitza Goleva has a rich experience as a lecturer in NBU, as well as in the Technical University of Sofia. Since 2017 she is with the NBU as an assistant. Dr. Goleva has a great deal of courses in the master's programme “Software technologies in Internet”. As a whole her teaching load is huge.

Dr. Goleva has developed the handouts for disciplines taught by her. In addition, she serves as a director of a program at department Informatics. She is extremely active in supervising students diploma theses, in writing referee reports for such theses, in participating various panels and committees.

Dr. Goleva is active in preparing, organizing and starting-up the program “Knowledge extraction and technologies for big data”. She takes part, as well, in the ongoing enhancement and development of the program Network technologies at the department.

### **IV. Administrative and community activities**

Dr. Goleva serves as a director of one of the programs at department Informatics. She is also a member of the admission panel for the masters programmes of the department. It has to be noted that she is also a very active member of the Bulgarian section of IEEE.

Dr. Goleva is also a member of the Organizing Committee of the regular conferences Computer science and education in computer science (CSECS) organized by the New Bulgarian University, Boston University and the University of Applied Science in Fulda.

## V. Personal comments

I have known Rossitza Goleva for about ten years. He is with the department of Informatics at the New Bulgarian University since 2017. I have the most favorable opinion of her professional capabilities and her commitment to the teaching and research activities in the department. In addition, all the application documents are excellently prepared and very handy to work with.

## VI. Critical remarks

I would refrain from critical remarks and suggestions for future work. At this level the candidates have a very clear idea for their research and publication activities. The standard remark here is to suggest publication in journals of high impact. But this depends clearly on the research area in which the candidate is working. Usually it is expected from an associate professor to supervise doctoral theses in the doctor programme of the department.

## Conclusion

Rossitza Ivanova Goleva is an established specialist in the area of information technology and more specially in the area of the enhanced living development platforms. During the years she has been the author of a large amount of scientific papers which are highly valued internationally. She is actively engaged in extensive teaching activities in the New Bulgarian University where she is the author and leading lecturer of many courses, supervisor of many diploma theses, member of many examination panels. Plagiarism of any kind could not be established.

In my opinion, the candidate fulfills all requirements of the Bulgarian Law for the promotion of the academic staff, as well as the special requirements of the New Bulgarian University. I estimate **positively** the application of Dr. Rossitza Ivanova Goleva and advise this Scientific Jury to propose the candidate to the Academic Council of the New Bulgarian University where he should be voted for the academic position of associate professor in the scientific field: 4. Natural Sciences, Mathematics and Informatics, professional field: 4.6. Informatics and Computer Science.

Sofia, 25.03.2022

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