

# REPORT

by **Prof. Dr. Petia Doycheva Koprinkova-Hristova**, from IICT-BAS, habilitated in professional field **4.6 Informatics** 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 **95/16.11.2021** with candidate **Assistant Professor Rossitza Ivanova Goleva**

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

Presented by Assistant Professor Goleva data on her research, teaching and administrative activities **comply** with national requirements and those specific to the NBU and **even exceed** them in some respects.

## **II. Research activities**

1. Evaluation of the monographic work, creative performances or other publications, corresponding in volume and integrity of the monographic work, including evaluation of the scientific and scientific-applied contributions of the author.

This section presents 8 publications equivalent to a habilitation thesis, one of which is with SJR rank, and the others are in referred in Scopus and/or Web of Science editions. They carry a total of 156 points, which is over 50% more than the minimum required points on this indicator (100). All publications are co-authored with a large international team (5 or more authors), and the candidate is the first author of half of these publications, which undoubtedly proves the great contribution of Dr. Goleva in these works, although no separation protocol for individual contributions co-authors presented.

The published results cover the full cycle of developing a platform to improve lifestyles from the analysis of its end users and the basic requirements for such platforms through the design, implementation and testing of a specific cloud platform to improve lifestyles with fixed and mobile services. The main part of these contributions can be classified as scientific and applied, and the design of the platform also has elements of scientific contribution related to the developed cloud services.

2. Evaluation of the contributions in the other attached publications (creative performances) made after the appointment of the academic position "Assistant Professor".

In this section the candidate has presented a total of 8 publications, two of which with impact factor (in Q1 and Q2), one with SJR rank and 5 referred in Scopus and/or Web of Science. Although there is evidence in the submitted self-assessment for the SJR of publication number D.7.2, it is clear that it is for the years 2018-2020, but not for the year in which the publication was published (2017), so I admit 18, and no 30 points for this paper. On the other hand, the chapters of books D.8.1 and D.8.2 are in an edition with SJR rank, which allows them to receive 18 instead of 15 points. Thus, in my opinion, on this indicator Assistant Professor Goleva collects 255, not 261 points, which is a small difference from the submitted information and is far above the required 200 points according to the minimum requirements. Dr. Goleva is the first author of one of the publications in this group, and all of them are co-authored with major international teams.

The contributions in this group of publications are closely related to the contributions in the monographic work of the candidate, and in addition include mathematical modeling of traffic in the developed platform with the application of machine learning. The main part of the contributions under this criterion can be classified as scientific-applied, and modeling with machine self-learning includes elements of scientific contribution to the developed methods for extracting characteristics from the processed real data.

### 3. Citations by other authors.

Assistant Professor Goleva presented data for only a small part of the citations of her works - a total of 20 independent citations of 9 of the publications she applied for, all in Scopus and/or Web of Science. They bring her a total of 160 points, i.e. by 60% above the minimum required 100 points on this indicator. It should be noted that a reference in Scopus shows that the publications of Dr. Goleva referred to there (38 so far) have 155 independent citations with h index 5. This undoubtedly proves that she is a recognizable and valuable researcher in the world scientific space.

### 4. Evaluation of the results of participation in research and creative projects and application of the obtained results in practice.

For indicator E, the candidate presented evidence of participation in 5 national and 4 international research projects. Three of the national projects are funded by the Innovation Fund and one by the NSF. Three of the international projects are COST actions and one is funded by the European Commission. Dr. Goleva was the leader of one COST action. Thus, she collects the required 150 points on this indicator E.

The main scientific and applied research results published in the articles of Assistant Professor Goleva were obtained in the process of working on these projects. The projects funded by the IF are practical (models and services for IoT platforms), which is another proof in support of the applicability of her developments in practice.

## **III. Teaching activities**

### 1. Classroom and extracurricular employment, work in the electronic training module "MOODLE - NBU", providing student internships and internships, working with students and PhD students.

Assistant Professor Goleva has a significant teaching activity: she has created original teaching materials in Moodle in two disciplines on operating systems; participates in trainings at the library; participates in the launch of a program for knowledge and technology extraction for big data; leads three courses in English in the bachelor's program "Network Technologies"; she has 5 graduates so far; she has reviewed 10 diploma theses and participated in 5 diploma defense commissions; She also participated in the national program of practices of the Ministry of Education and Science.

### 2. Working with Erasmus students.

Assistant Professor Goleva is a very active participant in the Erasmus program with contracts with the University of Twente, Belgium, the University of Fulda, Germany and the University of Coimbra, Portugal, as well as with lectures by invitation and participation in seminars.

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

1. Participation in collective governing bodies of NBU.

Assistant Professor Goleva takes an active part in the collective management bodies of the NBU as a member of the program councils of the Telecommunications Department and the Informatics Department. He is currently the director of the program council for informatics.

2. Social activity.

Dr. Goleva is an active participant in the international professional organization IEEE both as a regular member and as a section head. She also participated in the organization of the CSECS conference.

3. Attracting students to the program.

Dr. Goleva actively participates in attracting students through interviews with master's candidates and participation in a commission for admission of masters.

#### **V. Personal comments**

I know Dr. Goleva from her active organizational work in the international professional organization IEEE and in particular of the Bulgarian section, of which I am a member. My impression is that she is an active and dedicated researcher and organizational figure.

#### **VI. Critical remarks**

A very good impression is made by the fact that the scientific and scientific-applied achievements with which Assistant Professor Goleva participated in the competition, received in the framework of an international COST campaign on systems for improving lifestyle and are the result of her successful work in a large international research team. In addition to her scientific results, her great teaching activity and public engagement make a very good impression.

I have no remarks on the candidate's activities. I recommend her to continue to be active and productive in all her academic activities.

#### **Conclusion**

All the above gives me reason to give a convincingly **Positive** assessment of the academic activity of the candidate **Assistant Professor Dr. Rositsa Ivanova Goleva** and to propose to the esteemed Scientific Jury **to admit** her to election by the Academic Council of NBU.

Sofia, 31.03.2022

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