O P I N I O N

Authored by Assoc. Prof. Krasen Kirov Angelov, PhD, Technical University of Gabrovo

Concerning scientific works submitted for participation in competition
for awarding the academic position of "Associate Professor"
in the field of higher education 5. Technical Sciences,
professional field 5.3. Communication and Computer Engineering,
scientific specialty "Communication Networks and Systems" (Communication and computer systems, Measurements in communications)

In the competition for „Associate Professor", announced in the State Gazette, issue 54/25.06.2024 and on the website of TU – Gabrovo for the needs of the Department of "Communication Equipment and Technologies" at the Faculty of Electrical Engineering and Electronics as a single candidate participates
Chief Assist. Prof. Georgi Ivanov Georgiev, PhD – Technical University of Gabrovo.

1. An overview of the content and results of the submitted works

Chief Assist. Prof. Georgi Georgiev, PhD, participated in the competition for academic position "Associate Professor" with a total of 36 publications (indicators В.4, Г.7 and Г.8), 1 published textbook (indicator Е.23) and 2 published teaching guides (indicator Е.24).
The candidate's publications can be classified as follows:
- 36 scientific publications in editions, which are referenced and indexed in world-famous databases of scientific information, 1 of which is article in journals with an impact factor (Journal of Electrical Engineering, Slovakia - IF: 0,636), and 11 are publications with "SJR factor";
- 12 scientific publications in journals with scientific review or in edited collective volumes, which are not indexed in Scopus;
- 6 publications are in Bulgarian language and 30 – in English language;
- 4 individual publications and 32 – in co-authorship.

The candidate's scientific publications can be divided into three thematic areas:
- Diagnosis, predictive analysis, categorization and optimization of network traffic [В4.10, Г7.1, Г7.2, Г7.3, Г7.4, Г7.13, Г7.14, Г8.1, Г8.3, Г8.4, and Г8.5];
- Biometric identification and authorisation [В4.1, В4.4, В4.5, В4.6, В4.7, В4.9, and Г8.6];
- Noise identification, classification and filtering in communication channels [В4.2, В4.8, Г7.6, Г7.8, Г7.10, Г8.2, Г8.9, and Г8.10].

Proof of the candidate's scientific contributions are 15 citations of his publications by other authors in scientific journals, referenced and indexed in world-famous databases with scientific information.

The results of research activity of Chief Assist. Prof. Georgi Georgiev, PhD fulfill the national quantitative indicators as well as the requirements of the Technical University - Gabrovo for occupying the academic position of „Associate Professor", grouped respectively in indicators В, Г, Д and Е.

2. General characteristics of the candidate's activities

2.1. Educational and pedagogical activity

Chief Assist. Prof. Georgi Georgiev, PhD has been working in the Department of Communication Equipment and Technologies at the Technical University of Gabrovo since 2019, appointed to the academic post of "Chief Assistant Professor".

Over the last 5 years, Chief Assist. Prof. Georgi Georgiev, PhD has been a lecturer in the disciplines "Communication and Computer Systems" and "Measurements in Communications" in the Bachelor's Degree for the specialty "Communications Equipment and Technologies", seminar and laboratory exercises on "Communication and Computer Systems", "Databases and Cyber Protection", "Measurements in Communications", "Telecommunications Networks and Protocols" and "Application of Artificial Intelligence in Communications" in the Bachelor's Degree for specialty "Communication Technologies and Cybersecurity", as well as in the disciplines "Information Security Systems" and "WEB-based Access Control Systems" in the Master's Degree for the specialty "Communications Equipment and Technologies".

Chief Assist. Prof. Georgi Georgiev, PhD is a co-author of 1 textbook and 2 teaching guides in and he has developed methodological materials for e-learning in the disciplines led by him.

For the period from 2019 until now, Chief Assist. Prof. Georgi Georgiev, PhD was supervisor of a total of 24 graduates from the "Communications Equipment and Technologies", "Communications Technologies and Cybersecurity", "Digital Administration" and "Industrial Management" specialties at the Bachelor's and Master's Degree of Engineering.

He has participated in the preparation of student teams with developments presented at the "Student Scientific Session" of TU - Gabrovo.

2.2. Scientific and scientific-applied activity

Chief Assist. Prof. Georgi Georgiev, PhD has participated in 1 national project under the Operational Program "Science and Education for Smart Growth" and 4 university research projects, one of which he was the head of.

The candidate is a member of the Union of Electronics, Electrical Engineering and Telecommunications, Bulgaria. No information is provided that the candidate is a member of program or scientific committees of scientific conferences, as well as a member of the editorial boards of journals.

2.3. Implementation activity

The candidate has not attached documents certifying the implementation activity carried out. As a result of the supervision of graduates and doctoral students, as well as participation in projects, various demonstration and experimental models and platforms in the field of application of artificial intelligence in communications.

3. Contributions (scientific, scientific-applied, applied). Significance of the contributions for the science and the practice

Analyzing the submitted materials for preparation of an opinion, the declared contributions can be summarized as scientific, scientific-applied and applied. They are the result of the candidate's research activity and are widely popularized through his research and publication

activities – a large number of citations have been registered and it is evident that Chief Assist. Prof. Georgi Georgiev, PhD has a "Hirsch factor" h = 5 in the SCOPUS database.

I accept the stated contributions of Chief Assist. Prof. Georgi Georgiev, PhD, and I reckon that they are sufficient to hold the academic position of "Associate Professor".

4. Assessment of the candidate's personal contribution

The independent publications and participation in projects of Chief Assist. Prof. Georgi Georgiev, PhD are proof of the individual contribution of the candidate in the implemented research and presented results of scientific and applied nature.

5. Critical remarks and recommendations

I have no significant remarks and recommendations to the presented materials, but I can note the following: the formulated contributions could be systematized and summarized more precisely.

The educational, pedagogical and scientific activity of the candidate is undoubtedly at a high level. However, I would recommend the candidate to focus on participation in international projects, to take a more active leading role in his scientific publication activity as the first author, as well as to more actively look for opportunities for practical implementation in business and monetization of the results of its scientific and applied developments.

6. Personal impressions

I have known the candidate personally for more than 20 years, and I have immediate impressions of his scientific, pedagogical and organizational activities, which I can summarize in the following:
- Ethical and responsible at the professional and academic level;
- Has well-developed and valued professional skills for developing and participating in research projects and publication activities;
- Actively maintains a high level of knowledge of technological innovations and developments in the field of artificial intelligence and its application in communication technologies.

7. Conclusion

The documents submitted by the candidate in a competition for the academic position of "Associate Professor" meet the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria and the regulations of the Technical University of Gabrovo.

In view of the above, I propose Chief Assist. Prof. Georgi Ivanov Georgiev, PhD to be awarded the academic position of "Associate Professor" in the field of higher education – 5. Technical Sciences, professional field – 5.3. Communication and Computer Engineering, specialty – "Communication Networks and Systems" (Communication and computer systems, Measurements in communications).

03.10.2024   Member of the scientific jury: /signature/

/Assoc. Prof. Krasen Angelov, PhD/