O P I N I O N
from
Assoc. Prof. Eng. Georgi Ivanov Georgiev, PhD
Technical University - Gabrovo

for the academic position of "professor" in
field of higher education – 5. Technical sciences,
by professional field – 5.3 Communication and computer technology,
specialty – "Communication Networks and Systems" (Wireless Communications and Cybersecurity in WiFi Networks, Internet of Things (IoT) and Cybersecurity Systems)

In the competition for professor, announced in the State Gazette, issue 48 / 13.06.202 5 y. 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 candidate Assoc. Prof. Eng. Krasen Kirov Angelov, PhD – Technical University of Gabrovo.

1. Overview of the content and results in the presented papers

In connection with the participation in the competition in the indicated direction, Assoc. Prof. Dr. Eng. Krasen Angelov has presented a complex of 43 scientific papers, which can be classified into three main areas: "Cybersecurity in wireless communications", "Communication technologies and applications in the Internet of Things" and "Monitoring, control, management and optimization of resources in communication networks". The distribution of scientific publications is as follows:

- 2 published textbooks – one of which is an independent "Wireless Communications" , and the second "Digital Television Technologies" written in a scientific team in co-authorship;
- 26 scientific publications falling into the category "refereed and indexed in world-renowned databases of scientific information";
- 1 5 scientific papers in the category "non-refereed journals with peer review or in edited collective volumes" .

2. General characteristics of the candidate's activities

2.1. Educational and pedagogical activities

The candidate is a leading lecturer in a wide range of academic disciplines in the education of students of the Bachelor's and Master's degree programs in part-time and full-time study, among which can be mentioned: "Internet of Things (IoT) and cybersecurity systems", "Electromagnetic compatibility"; "Access control systems"; "Wireless communications and cyber protection in WiFi networks"; "Security equipment"; " Cybersecurity of Web and Cloud applications "; " Audio and video systems "; " Wireless communications and broadcasting "; " Interactive cable television networks " , " Communication technologies in IoT ", etc. The specified disciplines fall within the scope of developed curricula for the specialties "Communication technologies and cybersecurity" and "Communication equipment and technologies" at the Faculty of Electrical Engineering and Electronics. The high number of graduates and currently enrolled doctoral students in the Doctoral Program "Communication Networks and Systems" who have acquired their professional qualifications and are supervised by Assoc. Prof. Dr. Eng. Krasen Angelov makes a very positive impression.

2.2. Scientific and applied scientific activities

Regarding the total number of referenced and indexed scientific papers in the world-famous databases “Scopus” and “WoS” - 3 publications have Impact Factor and 8 have Impact Rank “SJR”. The publications realized in scientific teams in co-authorship are 35, while 6 are independent. Regarding the language of writing - 15 of the scientific papers are in Bulgarian, and 26 in English. According to a check conducted as of November 2025 in the world-famous database

Scopus , the candidate Assoc. Prof. Eng. Krasen Kirov Angelov has 89 citations in the structure of 72 documents (articles and reports) of high scientific value. The scientific research activity of Assoc. Prof. Dr. Eng. Krasen Angelov is characterized by a high degree of participation in national and international scientific projects. The scope of the materials provided includes information on 11 national projects - 4 under leadership and 7 as a participant, as well as participation in 1 project in a consortium with international partners.

2.3. Implementation activity

As a result of the active research and experimental activities carried out as an expert in a number of business projects, Assoc. Prof. Eng. Krasen Angelov has created ICT infrastructure technical solutions for monitoring specific indicators and factors of low-voltage power supply networks based on LoRa and IoT technologies. Assoc. Prof. Dr. Eng. Krasen Angelov has carried out comprehensive activities aimed at integrating the mentioned technologies into various project activities, including:

- "Quantum Communication, Intelligent Security Systems and Risk Management (Quasar)";
- "Student practices";
- "Modernization of higher education in sustainable use of natural resources in Bulgaria";
- "Digitalization of the economy in a big data environment" and others.

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

I fully accept the systematization of the formulated contributions into the categories "Scientific", "Scientific-Applied" and "Applied", reflecting the main aspects of scientific research activity, as well as in-depth technical knowledge, competencies in the engineering field in the areas:

- «Wireless communications»;
- "Internet of Things";
- "Information Security and Cybersecurity".

4. Assessment of the candidate's personal contribution

The content of the materials submitted for participation in the competition is evidence of a high level of professional expertise, with no indications of plagiarism. I believe that the significant share of the research conducted, published in scientific volumes of prestigious international and national scientific journals and conferences with indexing in the world-famous databases "Scopus" or "Web of Science", are the personal work and contribution of the candidate Assoc. Prof. Eng. Krasen Angelov.

5. Recommendations

In my opinion, as a constructive assessment, the following recommendations can be made:

- Increasing publication activity regarding the selection of scientific content from expert analyses in specialized international publications and scientific forums with an Impact Factor;
- Actively maintaining participation in National and International projects under various European programs, as well as collaborative activities regarding innovative technologies for the modernization and development of the educational process and the enhancement of the technical framework of scientific research.

6. Personal impressions

I know Assoc. Prof. Dr. Krasen Angelov from his many years of activity as a highly qualified and highly erudite lecturer in the structure of the Department of Communication Engineering and Technologies at the Technical University - Gabrovo. Characterized as a technical specialist, following the paradigm for the interaction of engineering innovations in building a symbiosis

between science, technology and modernization of the educational process and scientific research. Distinguished by high culture, academic ethics, authority, tolerance, correctness, dedication and organization, encouraging the academic community to focus on new challenges in engineering activity.

7. Conclusion

Considering the above, I propose that Assoc. Prof. Dr. Eng. Krasen Kirov Angelov be elected as "professor":

- **in field of higher education – 5. Technical sciences;**
- **professional field – 5.3 Communication and computer technology;**
- **specialty - "Communication Networks and Systems" (Wireless Communications and Cybersecurity in WiFi Networks, Internet of Things (IoT) and Cybersecurity Systems) .**

07.11.2025 Member of the scientific jury:

/Assoc. Prof. Eng. G. Georgiev, PhD/