

OPINION

Concerning scientific papers and works submitted for participation in competition for the academic position of “Professor” at the Technical University - Gabrovo in the field of higher education 5. Technical Sciences, professional field 5.3. "Communication and computer technology",

scientific specialty: Communication networks and systems (Signals and systems, Radio communication equipment)

member of the scientific jury: Prof. Dimitar Ivanov Radev, D.Sc. - Higher School of Telecommunications and Posts, Sofia

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

The competition for “professor” was announced in the State Gazette, issue 50 / 15.06.2021 and on the website of the Technical University - Gabrovo (TU-Gabrovo) for the needs of the Department of Communication Engineering and Technology at the Faculty of Electrical Engineering and Electronics. The only candidate in this competition is Assoc. Prof. Stanimir Mihaylov Sadinov, PhD. All documents in the competition are valid and include the necessary information about the candidate. They are submitted within the prescribed period and meet the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria.

The scientific papers presented by Assoc. Prof. Stanimir Sadinov, PhD contain 37 publications, of which 21 articles in scientific journals and 16 reports in international scientific conferences at home and abroad. The candidate is a co-author of 3 articles in magazines that have an impact factor (Journal of Elektronika ir Elektrotehnika- IF: 1,128, Journal “Electronics and Electrical Engineering”- IF: 0,647, Proceedings of The Bulgarian Academy of Sciences -IF: 0,378. Twelve (12) of the attached list of publications reported an SJR factor.

Sixteen (16) articles have been published in magazines abroad (B.4.2, B.4.4, B.4.7, B.4.8, B.4.13, B.4.14, Г.7.1, Г.7.2, Г.7.3, Г.7.4, Г.7.5, Г.7.7, Г.7.10, Г.7.11, Г.7.12, Г.7.13) from the attached list of publications, and five (5) articles have been published in Bulgarian scientific journals (B.4.1, Г.8.1, Г.8.2, Г.8.3, Г.8.5). Eleven (11) scientific papers have been reported and published abroad, and another five (5) have been reported and published at international conferences in Bulgaria.

From the list it can be seen that five (5) of the publications of Assoc. Prof. Dr. Eng. Sadinov are independent (B.4.10, Г.8.1, Г.8.2, Г.8.3, Г.8.4), two (2) have one co-author (B.4.1 и Г.7.9), eleven (11) of the scientific papers are with two co-authors (B.4.2, B.4.4, B.4.6, B.4.12, B.4.13, Г.7.1, Г.7.6, Г.7.13, Г.8.5, Г.8.8, Г.8.10), and the remaining nineteen (19) have three or more co-authors.

Assoc. Prof. Stanimir Mihaylov Sadinov, PhD participated in the competition with 2 textbooks (Radiocommunication Equipment and Design of Interactive Cable Television Networks) and 2 laboratory exercises guides (Signals and Systems and Communication Circuits).

The content of the above articles, reports and teaching aids fully corresponds to the scientific field of the competition for a professor.

2. General characteristics of the candidate's activities

2.1. Educational and pedagogical activity

Assoc. Prof. Stanimir Sadinov, PhD has been working as a lecturer at the Technical University - Gabrovo since 2000, successively as an assistant, senior assistant, chief assistant and associate professor in the Department of Communication Engineering and Technology. The educational-pedagogical

research and engineering-implementation activities of Assoc. Prof. Stanimir Sadinov, PhD are developing in a balanced and simultaneous way, complementing each other. During the last 5 years he has taught the following six disciplines for bachelors and masters in the specialty "Communication Engineering and Technology": Signals and Systems (lectures and exercises), Radio Communication Engineering (lectures), Television Engineering (lectures), Broadband Mobile Networks (lectures), Cable TV networks (lectures), Satellite communication systems (lectures). He is the head of more than 170 graduates is a bachelor's degree and a master's degree.

In recent years, Assoc. Prof. Dr. Eng. Stanimir Sadinov has participated in the training of eight (8) doctoral students. Indisputable proof of the excellent work of the candidate as a research supervisor of doctoral students is the successfully defended four (4) doctoral students in the doctoral program "Communication Networks and Systems".

2.2. Scientific and scientific-applied activity

Assoc. Prof. Stanimir Sadinov, PhD participated in the competition for professor with thirty-seven (37) scientific articles and publications with two (2) textbooks and two (2) teaching aids, which are the result of his scientific and scientific applied research. The candidate has managed four (4) research projects. He has participated in the research teams of four (4) international and five (5) national projects under the Operational Programs (OP) "Science and Education for Smart Growth" and "Scientific research" fund of Ministry of Education and Science.

2.3. Implementation activity

Information about a contract with NAVTECH GROUP EOOD for research of the possibilities for implementation of the product "Balanced system of efficiency indicators" of a project under procedure BG161PO003-1.1.07 "Implementation of innovations in enterprises" under OP Competitiveness is presented. In addition, documents for participation in international projects were presented, together with the Municipality of Gabrovo and regional business organizations and companies for development and support of innovations in production.

3. Contributions (scientific, scientific-applied, applied)

I accept the contributions announced by Assoc. Prof. Stanimir Sadinov, PhD, which I define as scientifically applied and applied. These contributions directly correspond to and relate to the applicant's research interests in the fields of signals and systems, radio communications and optical and cable communications.

The reported scientific-applied and applied contributions are directly related to the disciplines announced in the competition: Signals and Systems and Radiocommunication Equipment. Assoc. Prof. Stanimir Sadinov, PhD is included in the database of Scopus and Google Scholar with twenty-four (24) citations, and his Hirsch index is $h = 4$.

I find that the requirements for the quantitative indicators of the criteria for awarding the academic position of "professor" are met. The candidate is recognizable in the scientific circles at home and abroad, being present in the databases of WoS, Scopus, IEEE, Google Scholar, Research Gate.

4. Assessment of the candidate's personal contribution

The independent publications of Assoc. Prof. Stanimir Mihaylov Sadinov, PhD and those of which he is in the first place are proof of his leading participation in the research. The scientific ideas and approaches presented and defended at scientific forums are an assessment of the personal contribution of the candidate.

5. Critical remarks and recommendations

Much of the assessment of the scientific production and creative activity of the candidate for "professor" is consistently set out above in the opinion. Here I will focus only on some recommendations for the future work of Assoc. Prof. Stanimir Sadinov, PhD:

1. It would be good in his research work to focus on the implementation of applied developments and search for opportunities to create and implement utility models and patents;
2. To intensify its participation in national and international research projects under research programs of the European Union, as well as in other international, regional and national specialized programs.

6. Personal impressions

I have personally known Assoc. Prof. Stanimir Sadinov, PhD for more than 10 years and I can responsibly say that he is a very serious lecturer and scientist. He enjoys the reputation of a teacher with an excellent attitude towards colleagues and students.

I consider that the presented information regarding the academic work and the scientific production of the candidate meets the requirements for awarding the academic position "professor", according to the Law for the development of the academic staff in the Republic of Bulgaria and the Regulations for its implementation, as well as the Regulations for acquiring scientific degrees and awarding academic positions at the Technical University - Gabrovo.

7. Conclusion

Having in mind the above, I will vote for the election of Assoc. Prof. Stanimir Mihaylov Sadinov, PhD to be awarded the academic position of "Professor" in the field of higher education 5. Technical Sciences, Professional field 5.3 "Communication and Computer Engineering", specialty "Communication Networks and Systems" (Signals and systems, Radio communication equipment).

Sofia, 20.10.2021

Member of the scientific jury: /signature/

(Prof. Dimitar Ivanov Radev, D.Sc.)