

REVIEW

**by Prof. Dimitar Ivanov Radev, Higher School of Telecommunications and Posts,
Sofia**

**on the materials submitted for participation in a competition for the academic
position of ASSOCIATE PROFESSOR**

**in the field of higher education 5. Technical sciences, professional direction 5.3.
"Communication and computer technology", specialty "Computer
architectures and computer graphics "**

The competition for the academic position " associate professor " is announced in the State Gazette 24/03.05.2022 and on the website of the Higher School of Telecommunications and Posts (VUTP) for the needs of the "Telecommunications" department at the Faculty of Telecommunications and Posts". There is one participant in the competition , Dr. Eng. Dzhihan Ibrahimov Menseidov , who is an assistant in the Department of Telecommunications .

3. Brief biographical data

In 2011, Dr. Eng. Dzhihan Menseidov obtained a bachelor's degree in "Electronics" at Ruse University "A. Kanchev", where in 2012 he graduated from the Master's College of Engineering with the qualification "Master of Electronics Engineering". In the period from 2014 until 2017, the candidate in the competition studies at the ONS "Doctor" in the doctoral program "Systems and technologies in transport for environmental protection" . In 2017 Rousse University "Eng. Kanchev" awards ONS "Doctor" to Dr. Eng. Dzhihan Menseidov in professional direction 5.5 Transport, shipping and aviation (Diploma No. RU-NS-2017-23).

From 2017 to now Dr. Eng. Dzhihan Menseidov worked successively in the academic positions of "assistant" and "assistant prof" in The Institute of Mechanics of the Bulgarian Academy of Sciences In 2018, Dr. Eng. Dzhihan Ibrahimov Menseidov is a part-time teacher, and from 2019 to now he holds the academic position of "assistant" of the main work in the Department of Telecommunications of VUTP.

In my opinion , this is sufficient as proof that the candidate for the academic position of "Associate Professor" fully meets the requirements of ZRASRB (Article 24, Paragraph 1 and Paragraph 2).

2. Description of the presented materials

Dr. Eng. Dzhihan Menseidov submitted one (1) independent monograph and ten (10) scientific publications in the competition. In all scientific works are printed and peer-reviewed. Eight (8) scientific works have been published independently, one (1) of the works has two co-authors and one (1) with three co-authors. The scientific production participating in the competition is published in English seven (7) work [2, 3, 4, 5, 9, 10, 11] and in Bulgarian three (3) labor [6, 7, 8].

The scientific indicators of the candidate in the competition for the academic position " associate professor" are presented in Table 1 .

Table 1

Minimum indicators for the academic position "associate professor "

<i>Criteria</i>	<i>Criterion name</i>	<i>Docent</i>	Jihan Menseidov
A	Indicator 1	50	50
B	Indicator 2	-	-
V	Indicator 3 or 4	100	100.00
G	Sum of the indicators of 7 and 8	200	223.33
D	Sum of indicators 12 and 15	50	110.00
E	Sum of the indicators from 16 to the end	-	-
total		400	483.33

Scientific indicators in the publications of Dr. Eng. Dzhihan Menseidov can be distributed as follows:

Group A Abstract of d dissertation work for the award of ONS doctor on the topic: " Treatment of hazardous waste from transport - end-of-life car tires ", diploma No. RU - NS- 2017-23 ;

Group B Independent monograph " COMMUNICATION AND AUTOMATION IN PYROLYSIS INSTALLATIONS ", ISBN 978-619-7066-24-1 , Partner BG EOOD, 2022;

Group G

- in the tender procedure are included four (4) scientific publications in proceedings of international conferences in Bulgaria [2, 3, 4, 5] , which are referenced and indexed in world - famous databases (Scopus) ;
- two (2) articles [6, 7] were published in non- refereed peer-reviewed journals from the national reference list;
- four (4) papers have been published in edited collective volumes in scientific works of universities;
- there is a lack of scientific publications in refereed international journals and in scientific works at international conferences abroad .

I accept that the candidate has fully fulfilled the minimum national scientometric indicators for groups A, B and G (Table 1), according to the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria (ZRASRB) . The scientific, scientific-applied and applied results presented by the candidate correspond to the professional direction 5.3 "Communication and computer technology", in the specialty "Computer architectures and computer graphics" .

3. Reflection of the candidate's scientific publications in the literature

In the list of citations (*Reference 6*) eleven (11) (eleven) citations by six (6) Bulgarian scientists and five (5) scientists from abroad of the scientific publications of Dr. Eng. Dzhihan are presented Menseidov , which were published in scientific publications, referenced and indexed in world-famous databases with scientific information.

From the presented in **Group D** of Table 1 (*Reference 12*) information can be summarized as follows:

- in the competition procedure, a reference for citation of two (2) scientific publications in 11 publications found in refereed and indexed ata is presented *Scopus* database ;
- is obvious that these are not all the citations of the candidate who has an excellent command of two foreign languages .
- 16.09.2022 , ten (10) scientific publications, 132 citations and h factor were recorded in the *Scopus* indexed database 6 of Dr. Eng. Cihan Menseidov , which shows that the international scientific community is well aware of the results of his research work .

I accept that the candidate has fully fulfilled the minimum national scientometric indicators for occupying the academic position "docent" in **group D** , according to the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria (ZRASRB) .

4. General characteristics of the applicant's activity

4.1. Educational and pedagogical activity

The candidate for the academic position "Associate Professor" has conducted practical exercises in the "Professional Bachelor" and "Bachelor" OCS for the last 4 years in 6 academic disciplines in PN 5.3 "Communication and Computer Technology": "Computer Architectures" for all specialties (BC , SP, KASP, KSVT, TT, KT, KKT); "Computer design" (SP, KASP, KSVT); "Signals and systems" (TT, BC, CSVN); "Digital signal processing" (TT, BC); "Programming and Information Technology Practicum" (KSVT). He participated in the development and is a co-author of the curricula for the listed disciplines. From the academic year 2022/2023, he conducts lectures on the discipline "Computer Architectures". He supervised semester projects and diploma theses of "Bachelor's" and "Master's" students. He was secretary and conservator of the State Examination Commission. He has developed teaching materials, laboratory installations and software products to enrich the educational base of VUTP.

4.2. Scientific-applied and innovative activity

Dr. Eng. Dzhihan Menseidov has participated in international and national NFNI projects of MOMN of the Institute of Mechanics of the BAS and the NID of VUTP. He actively participated in the creation of a material base and laboratories for the study of computer architectures, optical networks, 3D computer graphics and printing.

The effect of the innovative activity of the candidate in the competition for associate professor is improvement of the material and technical base used by students and doctoral students of VUTP.

4.3. Scientific and applied contributions

4.3.1. Contributions to computer architectures

4.3.1.1. A computer architecture model was proposed for the assessment of non-stationary heat exchange in a pyrolysis station for the safe treatment of IWAG [1,2,3,4];

4.3.1.2. An automated system for testing solar cells and photovoltaic panels has been created [8,9];

4.3.1.3. A computer model for automated learning of a pyrolysis station was justified [3,4] ;

4.3.2. Inputs into the computer modeling

4.3.2.1. A mathematical model of a computer architecture was developed for the assessment of non- stationary heat exchange in a pyrolysis station for the safe treatment of IWAG [1,2];

4.3.2.2. An algorithm was developed and proposed for modeling tasks for non-stationary heat exchange in a pyrolysis station for the safe treatment of IWAG [1,2];

4.3.3. Contributions to computer technology and computer graphics

4.3.3.1. A program was created in the MATLAB environment for solving tasks for evaluating non- stationary heat exchange in a pyrolysis station for the safe treatment of IWAG [1,2];

4.3.2.2. Various have been studied and classified:

- electrospinning systems [5 , 6,10] ;
- supercapacitors and photovoltaic system for smart cities [7] ;

5. Evaluation of the candidate's personal contribution

Based on the documents submitted for review, which are an expression of the teaching, scientific and scientific applied activity of Dr. Eng. Dzhihan Menseidov , the following conclusions can be drawn:

- the candidate's scientific publications are written in a distinctive style, and the logical connections between them can be clearly traced. The reference made in the *Scopus* indexed database gives reason to doubt the authorship and originality of the specified scientific-applied and applied contributions;
- scientometric indicators of the published scientific works participating in a competitive procedure exceed the minimum national scientific indicators for occupying the academic position "associate professor";
- the candidate has proven scientific and teaching qualities and can independently solve scientific and scientific-applied tasks in the specialty of the competition;
- the candidate's developments in the field of computer architectures and graphics have received sufficient recognition in academic and scientific circles;

- Dr. Eng. Dzhihan Menseidov continued to develop as a researcher and teacher after the defense of his dissertation;
- the candidate can work in scientific teams, summarize the results of scientific research and present them in an appropriate form in the training of students and doctoral students.

6. Critical notes

Regarding the scientific output of the candidate for the academic position of "associate professor", I have some remarks and recommendations for his future work, which no are decreasing the value of scientific research , content and application significance on the scientific-applied and applied contributions in his creative activity:

- in his future teaching activity to emphasize the publication of modern textbooks and electronic teaching aids, with which the obtained scientific and applied results will become available to students and specialists in the field of computer architectures and computer graphics;
- to constantly look for opportunities and solutions for the renewal and expansion of the material laboratory, technical and development base for training students and doctoral students;
- to use his professional training and qualification by publishing in specialized international journals with an impact factor. This will increase the quality of his publications and ensure contact with a wide range of specialists from the international scientific community.

6. Personal impressions

I personally know the candidate in the current competition since 2018. We work together on the creation of the educational content, the creation of a laboratory base, textbooks and teaching aids for the academic disciplines: "Computer Architectures", "Signals and Systems", "Digital Signal Processing", etc. Dr. Eng. Dzhihan Menseidov has excellent scientific and theoretical training, a good professional level as a researcher and teacher in the field of the competitive specialty.

7. Conclusion

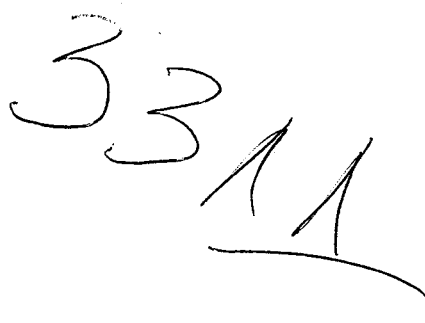
Based on my assessment, I propose to the Faculty Council of the Faculty of Telecommunications and Management of VUTP to choose Dr. Eng. Dzhihan Ibrahimov Menseidov of the academic position " ASSOCIATE PROFESSOR" in the field of higher education 5. Technical sciences, professional direction 5.3 " Communication and computer technology ", major "Computer architectures and computer graphics"

16.09.2022

Chairman of the '

Sofia

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A handwritten signature in black ink, consisting of stylized cursive letters, likely reading 'Dzhihan Ibrahimov'.