

# OPINION

On the competition for acquirement of the academic position of “Associate Professor”

In the PROFESSIONAL FIELD 5.3. Communication and computer science, scientific specialty  
"Computer Communication – Fundamentals”,

Announced in State gazette issue 2/05.01.2024

With applicants: Ch. Assistant Aydan Mehmed Haka, PhD

Member of the scientific jury: Prof. Dr. Eng. Stanislav Denchev Simeonov

The present opinion was made according to Order № 101/23.02.2024 of the Rector of the Technical University - Varna.

## 1. General characteristics of the scientific research and applied research works of the applicant

Only one candidate takes part in the competition for the acquirement of the academic position of “Associate Professor” – Ch Assistant Aydan Mehmed Haka. The candidate submitted a total of 43 scientific works. I will allow myself to classify them in the following way:

- 19 pcs. publications, according to criterion C.4. (Habilitation thesis - scientific publications (not less than 10), in publications that are referenced and indexed in world-famous databases with scientific information);
- 6 pcs. publications according to criterion D.7. (Publications outside the group of monographic works, in publications referenced and indexed in world-famous databases with scientific information);
- 18 pcs. publications according to criterion D.8. (Publications in non-refereed peer-reviewed journals).

Further, the materials presented for the competition include:

- 1 Manual for laboratory exercises on "Wireless Communications" co-authored by the candidate;
- Information about the participation in 13 scientific projects – one of them international, three – national

Table 1. Scientific results in accordance with the criteria.

Groups of indicators	Requirements	Performance by the candidate
Indicators group A.	At least 50points	50
Indicators group B.	--	--
Indicators group C.	At least 100 points	344
Indicators group D.	At least 200points	336,65
Indicators group E.	At least 50points	190
Indicators group F.		
Indicators group G.	At least 30points	150

Art. 24 i. 3 of the ZRASRB requires the candidate in the competition to have "a published monographic work or to have presented equivalent publications in specialized scientific publications. In his documents, the candidate has presented a certificate of fulfillment of the minimum requirements, as well as a certificate of original scientific contributions with relevant evidence. The scientific production submitted to the competition is summarized in Table 1.

After the formal summary of the competition materials made in Table 1, I can add that they are, at every point, important components in the evaluation of the candidate's scientific activity. It is clear from the table that the materials many times exceed the requirements for occupying the academic position "Associated Professor".

## **2. Assessment of the pedagogical preparation and activities of the applicant**

From the presented materials it is obvious that Ch. Assistant Hucka concentrated his activity mainly in the field of "Computer networks and communications". At the "Bachelor Program" he led lecture courses and exercises in the following disciplines: Computer Networks, Basics of Computer Communications, Electronic Commerce, Administration of Local and Internet Networks, etc. At the "Master Programm" he led lecture courses and exercises in the disciplines of Wireless Communications, Network Infrastructures, Internet Servers and Technologies. A Manual for laboratory exercises on "Wireless Communications" is also presented, in which Ch. Assistant Hucka is a co-author. In 2023, mobility was implemented under the Erasmus+ program. These facts give me the right to conclude that Ch. Assistant Haka, PhD has proven himself as a teacher in the field of Computer Communications.

## **3. Main scientific and applied research contributions**

I divide the presented research thematically into the following areas:

- research related to wireless technologies in sensor networks;
- research in the field of computer technologies and communications.

I accept the contributions presented in the materials, but I will allow myself to summarize them as follows:

### **A. Scientific-applied contributions:**

- traffic prioritization algorithms in sensor networks;
- systems for complex evaluations of simulators;
- systems for monitoring and data storage are proposed;
- systems for monitoring and optimization of energy consumption;
- assessment systems for distance learning;
- specific research - models and algorithmization in blockchain and IoT;
- Algorithmization of resource allocation in OFDM – PON.

### **B. I will summarize the contributions of an applied nature as follows:**

- improved simulation environments have been developed, allowing to study the quality of service;
- experimental wireless sensor networks have been implemented using different technologies;
- experimental studies were carried out with different communication nodes;
- a simulation environment for PON networks has been developed.

In my Scopus search, I found over 48 citations. Considering that the candidate's publications are mainly after 2019, I think this is a good criterion regarding the quality of the published material.

#### **4. Significance of the contributions for the science and practice**

There is no doubt about the relevance and reliability of the results of the presented scientific works for participation in the competition for the academic position "Associate Professor". The developments are in line with the modern requirements for research in the field of wireless networks and computer communications. The results of the research are current, significant and have a scientific and practical application. The latter is proven by the significant number of citations.

#### **5. Critical remarks and recommendations**

I have no specific remarks. The elements of a "scientometric image" indicate successful and productive research activity. I will try to constructively comment Ch. Assistant Haka to increase the activity in the realization of publications in journals from Q1 and Q2.

#### **CONCLUSION**

All the conditions according to the law for the development of the academic staff in Bulgaria and the Additional requirements for the academic position of "Associate Professor" of the Regulation for the terms and conditions occupying academic positions" at the Technical University - Varna have been met and I give a categorically positive conclusion for the selection of the candidate Ch. Assistant Aydan Mehmed Haka, Ph.D., in competition for the academic position "Associate Professor" in professional direction 5.3. "Communication and computer technology", scientific specialty – "Fundamentals of computer communications", for the needs of the "Computer science and technology" department.

Date: 02.04.2024  
Burgas

MEMBER OF THE JURY: \_\_\_\_\_  
/Prof. Stanislav Simeonov/