

## OPINION

in a competition for the academic position of "Associate Professor" in the field of higher education 5. Technical sciences, by professional field 5.2. Electronics, electrical engineering and automation, for the needs of the section "Cyber-physical systems" of IICT at BAS, announced in National newspaper no. 57 / 09.07.2021 with candidate: Assistant Professor Dr., Eng. Denis Safidinov Chikurtev

Member of the scientific jury: Prof. Dr., Eng. Lubomir Vankov Dimitrov

### 1. General characteristics of the research and scientific applied activity of the candidate.

One candidate participates in the competition - Assistant Professor Dr. Eng. Denis Safidinov Chikurtev, from the Cyber-Physical Systems Section of the Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences. The teaching and research activity of the candidate is entirely in the field of the competition. The candidate fully meets the national minimum requirements, as well as those of IICT at BAS for the academic position of "associate professor", as follows:

**Indicator A** (50 out of 50 points) – a diploma is presented for the Scientific and educational degree “Doctor” (PhD) from IICT at BAS from 16.03.2018. It is on the topic: "Research and control of service robots for helping human".

**Indicator B** (131.5 out of 100 points) – the candidate has presented 10 publications equivalent to monographic work. These publications are referenced and indexed in world-famous databases of scientific information. They can be merged under the heading "Innovative methods and means of monitoring, communication and control of mobile and service robots". Of these, 10 are in the Scopus database. And 6 of the 10 publications are in the Web of science database.

**Indicator G** (236,9 out of 220 points) - Eng. Denis Chikurtev has applied a list of 27 publications (8 in G7 and 19 in G8). 2 of these publications are independent. The publications presented are different from the publications on the candidate's PhD thesis, despite the similar themes. The presented publications show that the candidate continues to develop the topic of his dissertation and works in the field of mobile robotics and robotics sensory systems.

**Indicator D** (81 out of 50 points) - the author's reference to the citations under Group D is accurate and detailed. Most citations are in referenced and indexed world-renowned databases of scientific information.

**Indicator E** (62 out of 20 points) – a reference for participation in scientific and educational projects is attached. All projects are on the theme of the competition. Three of the projects are in the IICT of BAS. One of the projects is in EPU-Pernik.

## **2. Main scientific and scientific-applied contributions.**

The applicant has submitted a list of 17 scientific and scientific-applied contributions (which are not divided into "scientific" and "scientific-applied") and a list of 8 applied contributions. The contributions are not grouped, but only mentions, in which work of the author are included.

Scientific – 1.3, 1.8

Scientific and applied – 1.1, 1.6, 1.10, 1.13, 1.17

Applied – 1.2, 1.4, 1.5, 1.7, 1.9, 1.11, 1.12, 1.14, 1.15, 1.16, 2.4, 2.5

I do not recognize contributions: 2.1, 2.3, 2.6 (these are solutions of engineering tasks), 2.2, 2.7, 2.8 (no software described and no evidence).

The contributions are on the theme of the competition.

I think the contributions are a personal matter for the candidate.

## **3. Significance of contributions to science and practice.**

It makes a good impression that most of the publications and contributions of the applicant are extremely directly aimed at solving practical problems in the field of innovative methods and means for monitoring, communication and management of mobile and service robots.

## **4. Critical notes and recommendations**

I don't have critical notes. I would recommend that the applicant publish more works in publications abroad included in the world-famous SCOPUS and Web of Science databases, which have Impact Factor and/or Impact Rang.

## **CONCLUSION**

In conclusion, I find that the applicant meets the requirements for the academic position "Associate Professor" according to the ZRASRB, its Implementing Regulations and the Rules for Holding Academic Positions of the Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences. The introduction of the materials in the competition gives me reason to strongly propose Assistant Professor Dr., Eng. Denis Safidinov Chikurtev to take the academic position "associate professor" in professional field 5.2 Electrical

engineering, electronics and automation to the Cyber-physical systems section of the Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences. As a member of the scientific jury, I will vote in no doubt “agree”.

**Date: 30.09. 2021**

**JURY MEMBER:**

**NOT FOR  
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*/Prof. Dr. L. Dimitrov/*