

OPINION

**on a competition for the occupation of an academic position “Associate Professor”,
in the professional field 4.6. Informatics and computer sciences
(Embedded and autonomous systems),
for the needs of the Sofia University St. Kliment Ohridski,
Faculty of Mathematics and Informatics (FMI),
declared in the State Gazette No. 74 of 21.08.2020 and on the websites of of FMI and SU**

The opinion was prepared by Full Professor Daniela Ananieva Orozova, PhD from Burgas free university, professional field 4.6. Informatics and Computer Sciences (Embedded and autonomous systems), scientific field 4. Natural sciences, mathematics and informatics, as a member of the scientific jury for the competition according to Order No. ПД 38-497 from 19.10.2020 of the Rector of Sofia University.

Only one candidate has submitted documents for participation in the announced competition: Sen. Assoc. Prof. Ioannis Parmenion Patias, PhD from the Faculty of Mathematics and Informatics at the Sofia University St. Kliment Ohridski.

I. General description of the materials presented

1. Details of the application

The submitted documents from the applicant comply with the requirements of the Development of Academic Staff Act in the Republic of Bulgaria and the Regulations on the conditions and procedures for acquiring scientific degrees and occupying academic positions at the Sofia University St. Kliment Ohridski.

To participate in the competition the candidate **Sen. Assoc. Prof. Ioannis Parmenion Patias**, has presented a list of 11 titles, publications in Bulgarian and foreign scientific publications and scientific forums. Of these, 6 publications in international scientific forums and publications, referenced in the scientific databases Scopus or Web of Science, 3 monograph, 2 chapters from books.

The following candidate materials were presented to me: Autobiography, Diploma of higher education, Diploma of educational and scientific degree "Doctor", Document of Academic position,, Certificate of seniority in the specialty, Documents proving the fulfillment of the requirements of art. 115, para. 1, item 2, List of publications, Reference by the Author system, Reference for meeting the minimum national requirements for the respective scientific field and the additional requirements of SU St. Kliment Ohridski, Reference for citations, Reference for original

scientific contributions, Reference for indicators under Art. 122, para. 2, Scientific papers submitted for participation in the competition, Abstracts of the peer-reviewed publications, Copy of the announcement in the State Gazette.

2. Details of the applicant

Ioannis Parmenion Patias graduated from the Technical University, Sofia, Faculty of Computer Systems and Control in 1993. In 2013 he completed the master's degree program "Business Administration in Greece."

The candidate received his PhD degree in computer systems, complexes and networks on March 5, 2001, at the Technical University, Sofia, Faculty of Computer Systems and Control. In 2010 he obtained a Project Management Professional Certification (PMP No 1316337).

Since 2016, he has been working as a senior assistant at the Faculty of Mathematics and Informatics, SU St. Kliment Ohridski.

3. General characteristics of the applicant's scientific work and achievements

The submitted candidate's scientific papers for participation in the competition are divided into three thematic groups (numbers follow the sequence of papers in reference document №: 10b, no numbered list is presented):

- Application models for embedded and autonomous systems [№1, 10, 11];
- Risk management, technologies for digitalization in engineering and construction [№2,4, 9];
- Information systems for medicine and robotic systems [№ 3, 5, 6, 7, 8].

Two of the scientific papers submitted for participation in the competition are single-authored and the remaining 9 are co-authored.

The candidate has also provided a citation list, which contains a total of 11 citations in scientific journals, referenced and indexed in world-famous databases of scientific information (Web of Science and Scopus), with which the candidate participates in the competition for "Associate Professor".

According to the submitted documents (Reference document No. 12) the applicant covers the minimum national requirements and the additional requirements under Art. 1a, para. 2 and para. 3 of the RIADAPRB for occupation of the academic position of "Associate Professor" in the professional field 4.6 Informatics and Computer Science have been covered.

After a detailed review of the submitted scientific publications I confirm that:

a) The scientific works meet the minimum national requirements (according to Art. 2b, para 2 and para 3 of the *Development of Academic Staff Act in the Republic of Bulgaria*) and respectively the additional requirements of the Sofia University St. Kliment Ohridski for the academic position of "Associate Professor" in the scientific field and professional direction of the competition.

b) The scientific papers presented by the applicant do not repeat those of the previous procedures for acquiring a scientific title and academic position.

c) There is no proven plagiarism in the scientific works presented at the competition.

4. Characterization and evaluation of the applicant's teaching activity

Ioannis Patias first as a part-time lecturer, and since 2016 as a senior assistant at the Faculty of Mathematics and Informatics at Sofia University "St. Kliment Ohridski" has taught classes in the disciplines: "Risk Management" in the master's program "Software Technologies" and "Design of Robotic Systems" in the master's program "Embedded Systems" and the disciplines of Bachelor's degree: "Databases", "Databases workshop", "Artificial Intelligence", "Knowledge Based Systems" and "E-Business Systems". Under the Erasmus program, he led the disciplines: "Design of robotic systems" and "Risk management in the project".

Prior to that, in 2001 he taught the course "Object Oriented Programming of C ++" at the Technical University, Sofia, Bulgaria. In 2000 - 2002 he taught the disciplines "C Programming", "Pascal Programming", "Visual Basic Programming", "Object Oriented Programming of C ++ / Delphi" at the Institute of Technology, Kozani, Greece. In the period 2002 - 2008 he led the disciplines: "Operating Systems Part 1" and "Informatics Part 1, Part 2" at the Institute of Technology, Thessaloniki, Greece. In 2003-2004 he taught the course "Operating Systems Part 1" at the Institute of Technology, Serres, Greece.

This shows the rich teaching experience of the candidate Ioannis Patias gathered throughout the past years.

5. Substantive analysis of the scientific and applied scientific achievements of the candidate contained in the materials for participation in the competition

The original scientific contributions in the publications submitted for participation in this competition are described in Reference document No. 14 prepared by the applicant. I accept the contributions formulated in the report on the results of the applicant's research activities in the works by which Sen. Assoc. Prof. Ioannis Parmenion Patia, PhD participates in the competition. These results have scientifically applied nature and can be defined as enriching the existing scientific field with new knowledge.

6. Critical notes and recommendations

I have no personal impressions on the work of the candidate. From the submitted documents, I draw a conclusion that he is an established researcher.

I also assume that the contributions of the candidate in the presented publications is equal to the contributions of his co-authors. The participation in publications with more than one author is an indicator of the presence of skills for working in team. However, I would like to recommend that the candidate, in his future work, publish the results of his research in more papers in which he is the sole author. This would further establish his name in the scientific community.

7. Conclusion on the application

Having become acquainted with the materials and scientific works presented in the competition and on the basis of the analysis of their importance and the scientific and applied contributions contained therein, I **confirm** that the scientific achievements meet the requirements of the *Development of Academic Staff Act in the Republic of Bulgaria*, the Regulations for its implementation and the corresponding Regulations of the Sofia University St. Kliment Ohridski for the position of the candidate in the academic position of “Associate Professor” in the scientific field and professional direction of the competition. In particular, the applicant meets the minimum national requirements in the professional field and no plagiarism has been detected in the scientific papers submitted at the competition.

I state my **positive** assessment of the application of Sen. Assoc. Prof. Ioannis Parmenion Patias, PhD.

II. GENERAL CONCLUSION

On the basis of the above, I **recommend** that the scientific jury proposes to the competent body of choice of the Faculty of Mathematics and Informatics at the Sofia University St. Kliment Ohridski to choose **Ioannis Parmenion Patias** to occupy the academic position of “Associate Professor” in the professional field 4.6. Informatics and Computer Science (Embedded and autonomous systems), scientific field 4. Natural Sciences, Mathematics and Informatics.

12.12. 2020

Burgas

Opinion prepared by:

(Prof. Daniela Orozova, PhD)