ATTITUDE OF REVIEWER

for Assoc. Prof. Dr. Olga Dobreva Rahneva
in the competition for acquiring
the academic position "Professor"
at the Faculty of Economics and Social Sciences at
University of Plovdiv Paisii Hilendarski
in area of higher education
4. Natural sciences, mathematics and informatics,
professional field
4.6. Informatics and computer science
(Informatics - Distributed Systems and Applications),
published in Newspaper of State, issue 94, November 12, 2021

Prepared by: Prof. Dr. Anton Iliev Iliev

By order №RD-21-37/10.01.2022 of the Rector of the University of Plovdiv Paisii Hilendarski I was appointed as a member of the Scientific Jury in area of higher education 4. Natural sciences, mathematics and informatics, professional field 4.6. Informatics and computer science (Informatics - Distributed Systems and Applications).

For the participation in the announced competition for "professor" the documents of Assoc. Prof. Dr. Olga Dobreva Rahneva were submitted.

I have received all the required documents for participation in the competition in electronic format.

The candidate has grouped the scientific papers presented in the competition into three thematic areas, structured in the annotation of materials.

Main Contributions:

The main contributions were synthesized by the candidate in three groups:

- Informatics - Distributed systems and applications in education;

- Informatics and applications in mathematics;

- Others in informatics and applications.

The first group of papers examines the tasks that arise in the creation of software for the implementation of services for participants in the process of e-learning.

The second group of articles and monographs focus on specialized research on sigmoidal, cumulative and adaptive functions, which are used for serious research in recent years in various branches of science - Debugging and Test Theory, Population Dynamics and Theory of Computer Viruses Propagation and etc.

The third group of articles discusses various issues related to tracking plagiarism, 3D tools to help teach music to children with special educational needs and architecture of the regional data center for intelligent agriculture according to the requirements of Plovdiv region.

Reference for publications and citations:

The candidate submits 27 scientific publications and 2 textbooks in the "professor" competition.

In Scopus/WoS journals are published 12 articles in the journals and proceedings of scientific conferences. 9 of them have SJR.

The requirement for the necessary number of papers which are not submitted for the doctorate degree (2006) is fulfilled, which satisfies the requirements within the meaning of the ZRASRB, the Regulations for the implementation of the ZRASRB and the Rules of the "Paisii Hilendarski" for the implementation of the ZRASRB.

The candidate presented a list of 49 citations in Scopus/WoS.

During the preparation of the opinion I found that the candidate has 6 more quotes with SJR in the article:

Kyurkchiev, N., A Note on a Hypothetical Piecewise Smooth Sigmoidal Growth Function: Reaction Network Analysis, Applications, International Journal of Differential Equations and Applications, Volume 21, No. 1 (2022), pages: 1-17, doi: 10.12732/ijdea.v21i1.1, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084, Scopus, Q4, SJR: 0.103.

The minimal national requirements for required points by groups of indicators for the academic position of "professor" have been fulfilled.

The additional faculty requirements of the FMI at PU for PRAS in RB of FMI at PU for the position of "professor" have been fulfilled, namely - "at least 25 publications and 1 textbook or study guide, of the publications presented at least 15 must be in journals or proceedings of international conferences, of the publications presented at least 10 must be in journals, evidence of at least 20 citations; to be a research supervisor of at least 1

defended doctoral student at FMI at the University of Plovdiv".

I have not found any "plagiarism" in the candidate's work within the meaning of ZRAS in RB.

Associate Professor O. Rahneva has submitted reports for participation in 11 research projects, 7 of which are national and 1 is international.

All told so far convinced me to give a positive mark of the candidate overall research.

CONCLUSION

It is clear from the findings of the candidate works presented in the competition that in they are received sufficient scientific and applied contributions in the field of "Informatics".

From the reports presented, it is clear that the candidate has a very good teaching activity which adds to my conviction that Associate Professor Olga Rahneva meets the requirements of the ZRASRB, the Regulations for the implementation of the ZRASRB, the Rules of the PU "Paisii Hilendarski" for the implementation of the ZRASRB for the acquiring the academic position "Professor".

My conclusion regarding the acquiring of the academic position "Professor" by Assoc. Prof. Dr. Olga Dobreva Rahneva is POSITIVE.

I suggest to the Honorable Scientific Jury unanimously to propose the Faculty Council of the Faculty of Mathematics and Informatics at the University of Plovdiv "Paisii Hilendarski" to choose the candidate Associate Professor Dr. Olga Dobreva Rahneva for the academic position "Professor" in the Faculty of Economics and Social Sciences at University of Plovdiv "Paisii Hilendarski" in the area of higher education 4.6. Informatics and computer science (Informatics - Distributed Systems and Applications).

February 11, 2022   Signature: …………………........

                                              /Prof. Dr. Anton Iliev/