

OPINION

by **Prof. Evdokia Nikolaeva Sotirova, PhD**

University “Prof. D-r Asen Zlatarov” - Burgas

on the documents submitted by Sen. Assistant Prof. Velin Andonov, PhD
for participation in the competition for acquiring the academic position “Associate Professor”
at the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences - Sofia
in the field of higher education: 4. Natural Sciences, Mathematics and Informatics;
professional field 4.6. Informatics and Computer Science;
scientific specialty “Informatics (Information modelling of service networks)”,
announced in the Bulgarian State Gazette No. 70/ 07.08.2020

The reason for writing the present opinion is Order № 190/06.10.2020 of the Director of the Institute of Mathematics and Informatics (IMI) of the Bulgarian Academy of Sciences (BAS), Academician Vesselin Drensky, for selecting the members of the Scientific jury and Protocol No. 1 from the session of the Scientific jury through which I have been selected to prepare an opinion. The present opinion is prepared according to the Law on the Development of the Academic Staff in the Republic of Bulgaria, the regulations for its implementation and the specific requirements introduced in the regulations of IMI-BAS (last updated on July 19, 2019).

Sen. Assistant Professor Velin Stoyanov Andonov is the only participant in the competition.

1. General information about the candidate

Sen. Assistant Professor Velin Stoyanov Andonov, PhD, was born on January 8, 1985. In 2004 he finished the High School of Natural Sciences and Mathematics “Geo Milev” in the town of Stara Zagora. In 2008 he acquired bachelor degree in Applied mathematics. In 2011 he acquired a master degree in “Mathematical modeling in economics”, specialization “Mathematical finance and actuarial science”, at the Faculty of Mathematics and Informatics of Sofia University “St. Kliment Ohridski”.

In 2015 he accomplished his PhD degree in Informatics at the Institute of Biophysics and Biomedical Engineering of the Bulgarian Academy of Sciences.

From the submitted documents it is clear that the candidate started his work experience as a part-time Assistant Professor in Mathematics at the Trakia University, Stara Zagora (2011). Thereafter, he worked as a teacher of Mathematics at the High School of Natural Sciences and Mathematics “Geo Milev” in the town of Stara Zagora (2011-2016). In 2016, Velin Stoyanov

Andonov was appointed Assistant Professor and from 2018 until now he has occupied the position of Sen. Assistant Professor at the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences.

2. Description of the submitted materials

The submitted materials and documents for participation in the competition are in accordance to the Regulations for the Conditions and Order for Acquiring of Scientific Degrees and Academic Positions of IMI-BAS.

Velin Stoyanov Andonov has submitted for participation in the competition 23 scientific works, all of which belong to the theme of the competition and after his appointment to the academic position Sen. Assistant Professor. Out of them:

- 7 publications are presented as a substitution of habilitation work, of which 5 have SJR, 2 are in conference proceedings indexed in Scopus (group B – 124 points);
- 14 more scientific publications, of which 1 has IF; 7 have SJR; 4 are indexed in Scopus (IEEE Xplore) without SJR; 2 are indexed in Zentralblatt (*group Γ* – 236 points).

Among the presented publications, 13 have either IF or SJR and therefore the requirement of Art. 3 (1), Sec. 3 of the Regulations for the Conditions and Order for Acquiring of Scientific Degrees and Academic Positions of IMI-BAS is satisfied.

Also presented are: a list of citations; abstracts of the publications for participation in the competition; summary of the original scientific contributions in the publications for participation in the competition; information verifying that the presented documents are in compliance with the minimal national requirements and the minimal requirements of IMI-BAS (Appendix 2.2).

The presented documents and materials are very well described and arranged.

I have additionally received a written answer by the candidate regarding a question to him about some mistakes in Appendix 2.2. His explanation has been taken into account in the present opinion.

3. General description of the scientific and applied research of the candidate

The scientific interests of Velin Andonov are in a very interesting to me thematic area – Generalized net modeling of processes and systems.

I confirm that I corroborate the formulated scientific contributions by Velin Andonov presented in the “*Summary of the scientific contributions in the publications presented as a cumulative habilitation thesis*” and in the “*Summary of the scientific contributions in the publications for participation in the competition*”.

The main achievements of the candidate are in the following directions:

- Modeling of service systems and, in particular, modeling of telecommunication systems. To this thematic area also belong the publications presented as a cumulative habilitation thesis.

- Contributions to the Generalized nets theory. The new extensions of the ordinary generalized nets defined in this direction of research allow the simplification of the graphical structure of the generalized nets which will be certainly used by the researchers working in the area of the generalized nets, both in theoretical and applied aspect.

- Generalized net models in telemedicine/telehealth and models of systems of the human body.

- Other contributions related to research in the theory of the intuitionistic fuzzy logic and a proposed approach to the InterCriteria analysis, which supplement the main scientific interests of the candidate.

The list of citations for participation in the competition presented by Velin Stoyanov Adonov consists of 28 citations of 9 papers.

4. Evaluation of the personal contribution of the candidate and recommendations

According to the presented documents, Sen. Assistant Prof. Velin Stoyanov Andonov, PhD, is author of a total of 50 publications, of which 24 are indexed in Web of Science, Scopus and Zentralblatt.

My personal impressions of Velin Stoyanov Andonov are very good. He has serious scientific and applied contributions and I would recommend that he continue the ongoing research.

6. Conclusion

The documents presented by Velin Stoyanov Andonov are in full compliance with the Law for Development of the Academic Personnel of the Republic of Bulgaria and the Regulations for the Conditions and Order for Acquiring of Scientific Degrees and Academic Positions of IMI-BAS. The number of points in the groups of scientometric indices satisfy the minimal number of points required according to the Regulations for the Conditions and Order for Acquiring of Scientific Degrees and Academic Positions of BAS and Regulations for the Conditions and Order for Acquiring of Scientific Degrees and Academic Positions of IMI-BAS. Furthermore, in group \mathbb{D} , the number of points exceeds twice the minimum required number.

With all said above, I have a good reason to evaluate positively the presented materials for participation in the competition and to recommend to the honorary members of the Scientific jury to vote on a proposal to the Scientific Council of the Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences to appoint Velin Stoyanov Andonov, to the academic position “Associate Professor” at the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences – Sofia, in the field of higher education: 4. Natural Sciences, Mathematics and Informatics; professional field 4.6. Informatics and Computer Science; scientific specialty “Informatics (Information modelling of service networks)”.

Novemeber 10, 2020
Burgas

Signature:.....
(Prof. E. Sotirova)