



REVIEW

by Assoc.Prof.Veselinka Ivanova Nedeva, Ph.D., Faculty of Technics and Technology at Trakia University, Stara Zagora

by competition for the academic position "Assoc.Professor"

in the scientific specialty "Informatics" in professional area 4.6. Informatics and computer sciences, the field of higher education 4. Natural sciences, mathematics and informatics

The terms and conditions of the procedure for acquiring the academic position "Associate Professor" are based on the Law on the Development of the Academic Staff in the Republic of Bulgaria (ZRASRB); The Regulations for the Implementation of the ŽRASRB (PPZRASRB) and the Regulations for the Development of the Academic Staff (PRAS) of Trakia University - Stara Zagora. According to the announced competition, only one candidate - Dr. Emil Georgiev Delinov - submitted documents.

By the order No. 1361/12.05.2022 of Dobri Yarkov, Ph.D., Rector of Trakia University - Stara Zagora, I have been appointed as a member of the scientific jury for an announced competition in D.V. issue 24 of 25.03.2022 for the occupation of the academic position "docent" in the scientific specialty "Informatics" in professional direction 4.6. "Informatics and computer sciences", the field of higher education 4. Natural sciences, mathematics, and informatics at the department "Informatics and mathematics" of the Faculty of Economics at Trakia University (TrU).

As a member of the Scientific Jury, I have duly received the following documents:

1. Order No. 1361/12.05.2022 of the Rector of Trakia University - Stara Zagora, Assoc. Dr. Dobri Yarkov;
2. Rules for the development of the academic staff at the University of Applied Sciences - Stara Zagora;
3. Application by Emil Georgiev Delinov;
4. Declaration by Emil Georgiev Delinov for the reliability of the information prepared according to the requirements of the RSARB and PRAS;
5. Documents for the internship as an assistant - 7 documents
6. Information card for an academic position
7. D.v. issue 24 of 25.03.2022 - announcement
8. Diploma for higher education from PU "P. Hilendarski" - Mathematics with specialization in Informatics;
9. Diploma for Doctor of Informatics from 06.10.2016.
10. Autobiography
11. Summaries of works after the defense of a doctoral dissertation and for participation in the competition
12. List of publications and books for participation in a competition for the academic position "associate professor" in "Informatics"
13. List of the required number of citations of Dr. Emil Georgiev Delinov for participation in a competition for the academic position of "associate professor" in "Informatics"
14. Author reference for scientific contributions
15. List of Emil Delinov's habilitation co-authors
16. Certificate of criminal record

17. Summary table of compliance of the presented scientific works according to Minimum National Requirements for PN 4.6. Informatics and Computer Sciences according to Dr. Emil Velinov

18. Reference for Dr. Emil Velinov's publications with impact factor and impact rank prepared by the Central University Library of the State University of Applied Sciences on April 26, 2022.

19. Reference for the citations of Dr. Emil Velinov with impact factor and impact rank, prepared by the Central University Library of TrU on 04/26/2022.

20. Publications – 9 nos. and Staff memo for the forthcoming publication of a conference report

21. Citations – 4 nos. and Official Note for the forthcoming publication of cited work.

22. Documents for language knowledge in English and Russian - one Certificate and 2 protocols for passing exams.

1. Brief biographical and professional data of the candidate.

Dr. Emil Georgiev Delinov was born on 20.07.1960. He graduated from Plovdiv University "Paisiy Hilendarski", majoring in Mathematics with a specialization in Informatics. After completing his education, he successively went through the following qualifications: COMPUTER EDUCATION CENTER "SZAMOK" - Budapest, Financial Management at UNSS - Sofia, at Dell - Dell Certified System Expert, SAP at SAP - Bulgaria, Physics and Astronomy at CERN, Geneva, etc.

In 2016, he defended his dissertation as a doctoral student at the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences and received the educational-scientific degree "doctor" in professional field 4.6. Informatics and computer sciences.

As a professional, he works and develops in the following directions: a short time in the field of education and science: assistant and senior assistant in "Mathematical Assurance of Computing Systems" at VNVТУ "Todor Kableshkov" - Sofia; research assistant at the Technological Institute of Chemical Engineering - Haskovo and teacher of Informatics at the Economic Technical College - Haskovo.

Most of the time of his professional career he worked in the field of business as a programmer, system administrator, chief expert "Banking Information Technologies", head and director of "Information Technologies" and "Information and Communication Technologies".

According to biographical data presented by the candidate, but without documentary evidence of this, Dr. Emil Delinov also participated in the following more important activities:

- Scientific leader of pupils and students developing projects and participating in national and international scientific sessions, symposia, seminars, conferences, and workshops in mathematics, informatics, information technologies, economics, and transport.

- Scientific supervisor and reviewer of diploma theses of pupils and students.

- Author and developer of system and application software products implemented in various spheres of economy, finance, healthcare, and training.

- Participant in development, development, improvement, implementation, and support of integrated management systems and infrastructure projects of large financial institutions (banks, insurance, pension, and insurance companies), structures of central and local self-government, education and healthcare, industry, and services.

2. Evaluation of the candidate's scientific and scientific-applied activity

According to the list of scientific works of Dr. Emil Delinov for participation in the

competition for the academic position of "docent", a total of 9 publications are included, which can be divided as follows:

- 1 monograph (#1);
- 6 articles in magazines, thematic collections, and works from conferences (from #2 to #7);
- chapters of co-authored books (No. 8 and No. 9).

The analysis of scientific works shows the following:

- 3 publications are in journals published in our country, referenced, and indexed in the Web of Science without impact factor or impact rank (No. 2, 3, 4)
- 2 were presented in international scientific conferences, published in our country, but indexed in the IEEE Xplore databases (Nos. 5, 6);
- 2 publications are in English (Nos. 5, 6);
- 7 publications, incl. monograph and book chapters are in Bulgarian (No. 1, 2, 3, 4, 7, 8, 9)
- 3 publications, including 1 monograph, were written independently (Nos. 1, 2, 7);
- 3 articles are in print (Nos. 4, 5, 6) with confirming documents from the publishers.

The publications presented in the competition are distributed over time as follows:

Years	1987	2012	2018	2022
Number	1	1	1	6

It can be seen that the majority of Dr. Emil Delinov's publications are in the current year 2022, of which 3 are not yet found in the required databases for the minimum national requirements.

The applicant has also submitted a list of citations, which includes 12 citations, which are distributed by year as follows:

Years	2014	2015	2022
Number	1	2	9

The finding that can be made is that the majority of citations are in the year 2022. Of these, all 9 citations are to a conference whose proceedings are not yet found in the IEEE Xplore databases.

Dr. Emil Delinov has submitted an author reference for scientific contributions, which shows that the full list of the candidate's scientific works includes 42 titles, including:

- 1 monograph,
- 2 books,
- 3 textbooks for university students,
- 36 articles and reports published in scientific publications, referenced and indexed in world-renowned databases of scientific information, and those published in non-refereed peer-reviewed journals or published in edited collective volumes.

The contributions of Dr. Emil Delinov according to the scientific works presented, allowing equal participation in the collective publications that do not repeat those of the dissertation work, can be briefly systematized as follows:

In the monograph "Infrastructure Optimization with Cloud Technologies":

- Advantages, criticisms, and disadvantages of cloud computing are summarized and structured.
- The risks associated with them and approaches to minimize and overcome them are summarized.

- A possible approach and paths for the development of the ICT infrastructure are proposed, as well as the steps to go through to move towards optimization.
- Examples of a possible approach to audit, diagnostic analysis, and preparation of a proposal for improving services are given.
- Examples of possible optimization of ICT infrastructure using cloud technologies are presented.
- The possibilities for the application of cloud computing in the joint activity of teams from the structure of an entity have been systematized.
- Some of the approaches listed above can be used as methodologies and have been applied in real subjects.

In the other publications, the scientific contributions are mainly scientific and applied:

- Applications of cloud technologies in educational activities in Bulgaria within the framework of the "Success" project.
- A system for point evaluation of the various activities in the Mathematics and Information Technology classes has been proposed. It is emphasized that the advantages of the application and.
- Analysis of monitoring systems in material objects, as an environment for aggregating information from them, it is possible to use cloud services. Corresponding conclusions have been drawn about the areas of their application.
- As a result of the conducted tests, proposals have been developed for
- optimizations and improvements, both of the communication modules
- both protocols and entire monitoring systems.

The contributions made in the chapters of the two books presented by the author are mainly in the field of mathematics and physics education.

3. Assessment of the fulfillment of the requirements for occupying the academic position "Associate Professor"

The assessment was made according to the requirements of PPZRASRB, which sets out the national minimum requirements for professional direction 4.6. Informatics and computer sciences.

Dr. Emil Delinov fulfills the requirement under Art. 24.1. - successfully defended dissertation for the awarding of the National Academy of Sciences "Doctor" on the topic: "Informatics approaches to increase efficiency in the development of projects in the field of education", Institute of Mathematics and Informatics, BAS - 12.09.2016.

According to Art. 24.2. Dr. Emil Delinov submitted documents for the internship as an assistant, senior assistant, and research assistant, as follows:

- VNVТУ "Todor Kableshkov" assistant from 02.9.1987-07.15.1988 – 1 year and 6 months;
- VNVТУ "Todor Kableshkov" - senior assistant 16.07.1988 - 23.03.1990 - 9 months;
- Research associate - from 23.03.1990 - 06.06.1990 - 2 months.

The submitted documents for the internship as an assistant - 7 documents - VNVТУ "Todor Kableshkov" assistant from 02.9.1987-07.15.1988; senior assistant 16.07.1988 – 23.03.1990; Research Associate - Incomplete Document - Third page only; from 23.03.1990 - 06.06.1990; a copy of certain pages of the Employment Book. The applicant's biography contains information that he worked as a senior assistant and associate professor at the Institute of Medical Sciences - Sofia, but this is not supported by documents. It can also be seen that this parallels other professional commitments under employment contracts.

The conclusion that must be drawn is that Dr. Emil Delinov has the necessary minimum experience as an assistant or alternative positions recognized by ZRASRB under this article.

Art. 24.3. Dr. Emil Delinov has presented a monographic work: Delinov, E., Optimization of infrastructure with cloud technologies, University Publishing House "Paisiy

Hilendarski, Plovdiv, 2022", ISBN 978-619202-763-6. The monograph includes three chapters and a conclusion in a volume of 105 pages. 172 literary sources are cited, of which 151 are from Internet resources. Of the mentioned resources, 7 are with the participation of the author.

According to Art. 24.4. the candidate must meet the minimum national requirements under the Regulations for the Implementation of the Law on the Development of the Academic Staff in the Republic of Bulgaria (PPZRAS).

The implementation of the minimum national requirements (MNI) according to PPZRASRB is presented in a report by Dr. Emil Delinov. Since some of the publications and citations have not been received since May 2022 and are not found in the required databases, therefore they do not receive the required number of points. By groups of indicators, the results obtained are as follows:

Indicators	Declared points on MNI by Dr. Delinov	Number of MNI points at the moment
By indicator group "A" Successfully defended dissertation for the award of the ONS "Doctor" Topic: "Informatics approaches to increase efficiency in the development of projects in the field of education", Institute of Mathematics and Informatics, BAS Year of protection: 2016	50	50
Total points by group A	50	50
Minimum national requirements under indicator group "A"	50	
By indicator group "B" Monograph Делинов, Е., Оптимизация на инфраструктура с облачни технологии, Университетско издателство "Паисий Хилендарски, Пловдив, 2022", ISBN 978-619202-763-6; Университетско издателство "Паисий Хилендарски, Пловдив, 2022 Year of publication: 2022	100	100
Total points by group B	100	100
Minimum national requirements under indicator group "B"	100	
1. Делинов, Е., Система за телекомуникационна подготовка на данни в режим на реално време, Автоматика изчислителна техника и автоматизирани системи, Бр. 12, София, 1987, с. 42-44, ISSN 0205-1745; Zentralblatt MATH.	18	18
2. Гроздев, С., И. Марашева, Е. Делинов, Математически клуб „Сигма” в светлината на проект УСПЕХ [The Mathematical Club “Sigma” in the Light of the Project Success], УСПЕХ, Математика и информатика, 2012, бр.5, с. 453 – 460, ISSN 1310-2230; WoS - SJR without IF; not in Q4 – 10 points	36	30

Indicators	Declared points on MNI by Dr. Delinov	Number of MNI points at the moment
3.Марашева-Делинова, И., Е. Делинов, Една система за формиране на срочна и годишна оценка по математика и информационни технологии, Научно списание "Педагогика", брой 9/2022 г. in print; don't find in WoS; not in Q4 – 10 points.	36	0
4.Delinov, E., A.Stoyanova, I.Marasheva, On the suitability of Cloud Computing as an information aggregating environment from monitoring systems, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20, 2022, in print; don't find in IEEE Explore and SJR	30	0
5.Delinov, E., A.Stoyanova, I.Marasheva, An Approach for an Application of Cloud Computing in Testing Connectivity of Monitoring Systems, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 2022; in print; don't find in IEEE Explore and SJR	30	0
Стоянова, А., И.Марашева, Е.Делинов, Теорема на Минелай за триъгълник и тетраедър, Университетско издателства "Паисий Хилендарски, Пловдив, 2022", ISBN 978-619-202-761-2 – volume 33 pages, 3 authors	45	15
Стоянова, А., И.Марашева, Е.Делинов, Приложение на векторите за решаване на задачи по математика и физика, Университетско издателства "Паисий Хилендарски, Пловдив, 2022", ISBN 978619-202-764-3 – volume 94 pages, 4 chapters, 3 authors, of which two chapters are independent for the author	60	45
Total points by group G	255	108
Minimum national requirements under indicator group "G"	200	
1.Гроздев, С., Ив. Марашева-Делинова, Е. Делинов, Математически клуб „Сигма” в светлината на проект УСПЕХ, Математика и информатика, 2012, бр.5, с. 453-460, ISSN 1310-2230 Cited in: Кирилова, Б., Използване на формативно оценяване в домашната работа, Математика и информатика, 2015, 58, 3, с. 251-260 (Kirilova, B. Using formative assessment in homework. Mathematics and Informatics, 2015, 58, 3, pp.251-260)	8	8
2.Delinov, E., Eskenazi, A., An Approach for a more Objective Evaluation of Practical Projects, Used in the Training Process, Serdica Journal of Computing, 8, Sofia, 2014, 409-431 Cited in:	4	4

Indicators	<i>Declared points on MNI by Dr. Delinov</i>	<i>Number of MNI points at the moment</i>
Kyurkchiev, V., On a Modification of the Model of Phillips for Stabilization Control and Adequate Intervention of the Authorized Body Overseeing the Implementation of the Projects of the Operational Programme, Pliska Studia Mathematica Bulgarica, Vol. 25, No 1		
<p>З.Гроздев, С., Ив. Марашева-Делинова, Е.Делинов, Използване на облачни технологии при верификация на проекти за придобиване на практически знания. Доклади на Четиридесет и втората пролетна конференция на Съюза на математиците в България. Математика и математическо образование, София: Съюз на математиците</p> <p>Cited in: Шотлеков, И., Д. Шаркова, Подходът „Обучаеми обучават обучаеми в облака (04)“ – първи етап, Научно списание "Педагогика", 2014 год. LXXXVI, том 86, кн. 4, с.576-588 (Shotlekov, I., D. Charkova, The Learners Teach Learners in the Cloud Approach (ltlc) – Stage 1, P</p>	8	8
<p>4.E. Delinov, “Another point of view on cloud technologies,” (in Bulgarian) Proceedings of the Eleventh National Conference with International Participation “Education and Research in the Information Society”, June 1-2, 2018, Plovdiv, Association “Development of the information society”, Sofia, 2018, pp281290</p> <p>Cited in: Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20, 2022;</p>	8	0
<p>5.E. Delinov and Iv. Marasheva, “The problems of the ICT infrastructure in the industrial objects – adaptation for students in economic majors,” MASSEE International Congress on Mathematics MICOM 2009, Book of abstracts</p> <p>Cited in: Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20,2022</p>	8	0
<p>6.E .Delinov and A. Eskenazi, “An approach for a more objective evaluation of practical projects, used in the training process,” Serdica Journal of Computing, 8, Sofia, 2014, pp409-432</p> <p>Cited in:</p>	8	0

Indicators	Declared points on MNI by Dr. Delinov	Number of MNI points at the moment
Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20,2022		
7.I. Marasheva-Delinova and E. Delinov, "Motivation of Students for Research Work Using Rotation Bodies Geometry," Proceedings of the 6th Mediterranean Conference on Mathematics Education, 2009, Plovdiv, Faculty of Mathematics and Informatics, Plovdiv Cited in: Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20,2022	8	0
8.S. Grozdev, Iv. Marasheva-Delinova and E. Delinov, "Electronic library of students projects in mathematics and information technologies," (in Bulgarian) Mathematics and Education in Mathematics, Proceedings of the Forty first Spring Cited in: Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20, 2022	8	0
9.S. Grozdev, Iv. Marasheva-Delinova and E. Delinov, "Cloud Technologies And Some Possibilities For Application In Education," (in Bulgarian) Mathematics and Informatics, 2013, 6p.3, pp 239-257 Cited in: Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20,2022	8	0
10.E. Delinov and Iv. Marasheva-Delinova, "Application of cloud computing for the expansion of an electronic library of students projects," (in Bulgarian) Mathematics and Education in Mathematics, Proceedings of the Forty Fourth Spring Conference of the Union of Cited in:	8	0

Indicators	Declared points on MNI by Dr. Delinov	Number of MNI points at the moment
Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20,2022		
11.S. Grozdev, Iv. Marasheva-Delinova and E. Delinov, "The mathematical club Sigma in the Light of the Project Success," (in Bulgarian) Mathematics and Informatics, 2012, 6p.5, c. 453-460 Cited in: Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 19-20,2022	8	0
12.S. Grozdev, Iv. Marasheva-Delinova and E. Delinov, "Use of cloud technologies in the verification of projects for the formation of practical knowledge," (in Bulgarian) Mathematics and Education in Mathematics, Proceedings of the Forty Second Spring Conference of the Union of Bulgarian Mathematicians, Sofia, UBM, 2013, pp 366-372 Cited in: Stoyanova, A., IoT, Cloud, Consumers, Challenges for Smart Appliance Manufacturers, Proceedings of the 13th NATIONAL CONFERENCE WITH INTERNATIONAL PARTICIPATION "ELECTRONICA 2022", Sofia, May 1920, 2022	8	0
Total points by group D	92	20
Minimum national requirements under indicator group "D"	50	

According to Art. 24.5. Dr. Emil Delinov has not proven plagiarism in scientific works according to the law.

The conclusion that can be made is that Dr. Emil Delinov does not meet the national minimum requirements under PPZRASRB. Even after the publication of the works, which are under print and for which there are 0 points, Dr. Delinov cannot reach the required Minimum National Requirements under group "D" indicators - 200 points. The reason is that the journals are indicated as participating in quartile Q4, which is not available for these journals at this time, nor in previous years.

Pending further developments in the scientific field in the field for which he is applying, the following critical remarks and recommendations may be useful:

1. In a certain part of the publications are in Bulgarian journals and conferences, there are not sufficiently convincing research contributions, since the descriptive-analytical component prevails and those defended with experiments, and proofs, are missing.

2. To strengthen the activity by increasing the publications in foreign authoritative journals, as there are none among those presented for the competition.

3. There are few citations of the author and there are no citations in foreign publications, which is not convincing for the assessment of researchers and scientific workers from a professional field 4.6. Informatics and computer sciences regarding the specified scientific and applied contributions. This will be achieved by publishing more and more scientific works in authoritative indexed and refereed Web of Science and Scopus scientific journals.

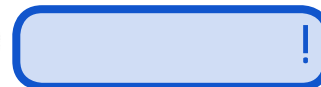
As an opportunity for future research, it can be recommended to combine the accumulated rich experience in business as an expert and manager in information and communication technologies with the application and development of cloud technologies, as well as analyze the results after their implementation. As a convincing proof of the recognition of these contributions, it is necessary to publish the results of scientific research in authoritative scientific publications (including abroad), which are indexed and referenced in the databases specified in the national minimum requirements.

Conclusion

All the requirements, conditions, and criteria under the Law on the Development of the Academic Staff in the Republic of Bulgaria, the Rules for its Implementation, and the Rules for the Development of the Academic Staff of Trakia University - Stara Zagora have not been met, therefore, at the present moment, I am giving a negative conclusion for the selection of Dr. Emil Georgiev Delinov by competition for the academic position of "associate professor" in the scientific specialty "Informatics" in professional direction 4.6. Informatics and computer sciences, the field of higher education 4.Natural sciences, mathematics, and informatics.

03.08.2022

Reviewer:

A blue rounded rectangular box with a white exclamation mark inside, used to redact the reviewer's name.

Assoc.Prof.Veselina Nedeva