

R E V I E W

by Prof. (retired in 2014) **DSc Jordan Borisov Tabov**

determined by Order No. 4 /14.01.2025 of the Director of IMI-BAS for a member of the scientific jury for the competition for the academic position of "associate professor" for the needs of the Institute of Mathematics and Informatics - BAS in the field of higher education

1. Pedagogical sciences; professional field 1.3. "Pedagogy of Education in..."; scientific specialty "Methodology of education in mathematics, informatics and information technologies" (Didactic methods), announced in the State Gazette No. 97 / 15.11.2024 with a single candidate

Ch. assistant **Dr. Georgi Stamov Gachev.**

Brief biographical reference

From those presented by Ch. assistant Dr. Georgi Stamov Gachev documents show that he graduated from St. Petersburg Technical University - Russia in 1994. in the specialty "Mining of non-ferrous, rare and precious metals" with the title "metallurgical engineer - master". In 1997-1999 continued his education at the Technical University of Sofia, where he was trained in the specialty "Processing of solid household waste". In 1998-2000 was also a student at Veliko Tarnovo University "St. St. Cyril and Methodius" majoring in "Finance" and also received a master's degree. His education continued in 1999-2001. at the University of Plovdiv, where he graduated as a "Teacher of Informatics". From 2012 to 2022, he was an assistant at IMI - BAS, and from 1923 until now he was a chief assistant at IMI-BAS, during which time he participated in conducting scientific research in the fields of mathematics, informatics, information technologies and pedagogy.

General description of the presented by Ch. assistant Dr. Georgi Stamov Gachev materials for participation in the competition.

Presented by G. Gachev's certificate of fulfillment of the minimum requirements for participation in a competition for the academic position of associate professor in the announced field of higher education shows that he meets these requirements.

Ch. assistant Dr. Georgi Stamov Gachev submitted 23 publications for participation in the competition, including a monograph. 8 of them are in publications indexed in Scopus or Web of Science. He has divided them into 4 thematic groups, namely:

1. Pedagogical research and didactic models
2. Research and development of new technologies in education
3. Applied mathematics and informatics
4. Development of program products with an educational focus.

For the first of these, he writes on the grounds that its articles participate - within the framework of a European scientific project - in the introduction of a new infrastructure for e-learning, in which researchers in the field of education in mathematics, informatics and natural sciences, teachers and students work in an environment enriched with modern computer and communication technologies.

The second includes publications presenting several concrete ideas for shaping and applying new technologies in education. Post #5 discusses programming learning using a tablet. In my opinion, post #17, peace, deserves special attention. In my opinion, publication #17 deserves special attention, which presents the programmatic implementation of the mathematical game "Combination Nine", in which the interesting game itself is an incentive to apply a programming technique.

The publications of the third group, at first glance, consider problems related to the methodology of teaching mathematics and informatics, but in fact they illustrate tasks and ideas, elements of which can also be used in school education.

The fourth group presents Internet-based software products. Among them, I pay special attention to publication No. 12, containing information about the online competition "VIVA Mathematics with a computer". Another article with important applied importance is Publication No. 6, I present an Online Assessment System for Mathematical Knowledge. It provides automated scoring of answers; moreover, it is universal and can be used to assess knowledge in any field. Publication No. 23 presents an important new resource for Bulgarian education - a virtual school mathematics classroom. It is the result of many years of effort: it has been in development since 2013. It provides open access educational resources for mathematics education to support the simultaneous development of mathematical and digital competence as well as STEAM education. It provides access to thousands of individual problems and hundreds of ready-made math topics; approximately 30,000 visits are registered to it every month,

Teaching activity, work on projects and other activities

As a research assistant in the Department of Information Technologies at FMI of SU "St. Kliment Ohridski" in 2002-2010. Georgi Gachev has also performed teaching activities in the areas of: communication networks, protocols, services, security, wireless networks, programming with Elica, etc. He participated in projects under the 6th and 7th framework programs of the EC.

Later, during the period 2012-2025, he was an active participant in projects of the OMI section, as well as in seminars and national and international conferences.

Critical notes and recommendations

I have no critical remarks to those presented by Ch. assistant Dr. Georgi Gachev materials for the competition. I recommend him to publish articles in the journal "Reports of the BAS", so that the problems and achievements of Bulgarian education become the object of attention of the entire Bulgarian scientific community.

Conclusion

On the basis of what has been said so far about the materials presented, the scientific works, their significance and the scientific contributions contained in them, I believe that Ch. assistant Dr. Georgi Stamov Gachev satisfies all the requirements of the ZRASRB, the Rules of the Ministry of Justice for the implementation of the ZRASRB, the relevant Rules of the BAS and the Regulations of the IMI - BAS on the terms and conditions for occupying the academic position "associate professor" and I recommend the Scientific Jury of the announced competition to propose to the Scientific Council of the Institute of Mathematics and Informatics at the BAS to choose Ch. assistant dr. Georgi Stamov Gachev in the academic position of "associate professor" in the field of higher education in the field of higher education 1. Pedagogical sciences; professional field 1.3. "Pedagogy of Education in..."; scientific specialty "Methodology of education in mathematics, informatics and information technologies" (Didactic methods), announced in the State Gazette no. 97 / 15.11.2024. with a single candidate ch. assistant Dr. Georgi Stamov Gachev for the needs of "Education in Mathematics and Informatics" section at IMI - BAS.

17.02.2025 г.

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Prof. DSc Jordan Tabov