

REVIEW

from prof. Dimitar Atanasov

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According to the competition for the occupation of the academic position "professor" at the Institute of Mathematics and Informatics, BAS, area of higher education 4. Natural sciences, mathematics and informatics, scientific direction 4.6 Informatics and computer sciences, announced in the State Gazette, no. 65/02.08.2024

1. Information.

The competition was announced by IMI-BAN in State Gazette 65/02.08.2024. Documents were submitted by one candidate - Hristo Nikolov Kostadinov, associate professor at IMI-BAN. The set of documents submitted by the only candidate for the competition is complete. The scientific jury for the selection competition was selected by the Scientific Council of IMI and was appointed by order 348/1.10.2024 of the Director of IMI.

2. Candidate's data.

Hristo Nikolov Kostadinov graduated from higher education (master's degree) in 2001 at the FMI of SU "St. Kliment Ohridski" in the specialty "Mathematics". He obtained his PhD from the University of Electro-Communications, Tokyo in 2005. Since 2006, he has been a mathematician at the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences, where he subsequently moved through the positions of chief assistant and associate professor (since 2012).

3. Scientific research.

The candidate submitted 15 publications for participation in the competition. All of them are in the world information databases, admissible for this scientific direction. The publications are up-to-date and were published after the last procedure for acquiring the position of associate professor. On this basis, I consider that they were not used in a previous procedure.

Four main areas of the candidate's scientific interests can be distinguished: construction of codes on rings of integers modulo m and their applications, methods for embedding watermarks in audio files, applications of smart contract platforms based on distributed ledgers, Internet of things.

The main publications of the candidate [1,2,3,4,5,12,13,14] are in the field of search for suitable error correction codes and studies of their characteristics. These publications could be classified as scientific and applied science.

The attached publications satisfy the requirements of ZRAS and the regulations of IMI-BAN. I have no reason to suspect plagiarism and believe that the applicant's contribution to the joint publications is at least as great as that of his co-authors.

5. Approbation of scientific contributions.

The applicant has submitted a list that contains 24 citations obtained based on the applicant's 11 publications. Of these, 4 citations are of publications participating in the competition. The main part of them (12 citations) were generated by two publications in the candidate's main field of research interests.

6. Преподавателска работа и участие в проекти.

In the documents submitted by the candidate, I did not find any information about teaching work.

The candidate declares participation in 7 national and three international projects. Although no evidence of this has been provided, I have no reason to believe that there is a discrepancy with the data submitted.

The candidate has one PhD student.

7. Заключение.

On the basis of the materials submitted by the candidate for the competition, described above, as well as the fact that they meet the minimum national requirements and those of IMI-BAN for occupying the academic position of "professor" in scientific field 4. Natural sciences, mathematics and informatics, professional direction 4.6. Informatics and computer sciences, I propose that Hristo Nikolov Kostadinov be elected to the academic position of "professor", with a scientific specialty of Informatics (Data Protection and the Internet of Things).

Sofia,

10.05.2024 г.

prof. D. Atanasov