



МИНИСТЕРСТВО НА ОТБРАНАТА
ИНСТИТУТ ПО ОТБРАНА „ПРОФЕСОР ЦВЕТАН ЛАЗАРОВ”
София 1592, бул. „Проф. Цветан Лазаров” № 2, факс: 02/92 21 808, <http://di.mod.bg>

REVIEW

by

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ABOUT: The scientific and applied works of Associate Professor Dr. Rosen Stankov Iliev, submitted for participation in a competition for academic position " Professor" in the field of higher education "Technical Sciences", professional field 5.3. "Communication and Computer Technology", scientific specialty "Information Technology and Cyber Security", for the needs of the the Defence Institute, announced by Order № 130 / 16.03.2021 of the Director of the Defence Institute and published in the State Gazette, issue 24 of 23.03.2021

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I. GENERAL INFORMATION ABOUT THE COMPETITION

The competition is for the academic position " Professor" for the needs of the the Defence Institute. It is in the field of higher education "Technical Sciences", professional field 5.3. "Communication and Computer Technology", scientific specialty "Information Technology and Cyber Security". It was announced by Order № 130/16.03.2021 of the Director of the Defence Institute and published in the State Gazette, issue 24 of 23.03.2021. Associate Professor Dr. Eng. Rosen Stankov Iliev submitted documents for the competition.

II. КРАТКИ СВЕДЕНИЯ ЗА КАНДИДАТА

Associate Professor Dr. Rosen Stankov Iliev was born on September 19, 1966 in the town of Kyustendil. He completed his secondary education in his hometown - "Technical School of Electrical Engineering" in 1985. In 1989 he graduated from the "Vasil Levski" National Military University - Veliko Tarnovo, with a specialty in "Engineering Troops", qualification "Mechanical Engineer". In 2004 he graduated from the Technical University of Sofia, majoring in Communication and Information Systems, and in 2005 from "G. S. Rakovski" Military Academy. In 2002, after defending a dissertation, eng. Rosen Stankov Iliev was awarded the educational and scientific degree "Doctor".

He has been working in the military, scientific and military science fields since 1989. During the period 1992-1998 he was a research associate and head of a scientific section (after 1994) at the "Military Research Institute" of the General Staff of the Bulgarian Army. Since 2012 he has been an academic associate professor at "Professor Tsvetan Lazarov" Defence Institute.

III. GENERAL DESCRIPTION OF THE MATERIALS PRESENTED

The total scientific output of the candidate includes 84 titles, of which 64 in Bulgarian and 20 in English. Of these, 32 are independent work of the applicant. One of the publications has an impact factor, two are in a magazine with SJR.

On the topic of the competition the applicant has submitted for review 39 publications, of which 3 monographs. All of them were not reviewed during the habilitation of associate professor Dr. Rosen Stankov Iliev to hold the academic position of "associate professor".

All scientific papers submitted for review are from the thematic focus of the competition for the academic position of "professor" and all I accept for review.

In forming the overall assessment of the candidate's scientific activity I take into account all his scientific output, including the results of his participation in 5 international research projects, 6 national research projects, 15 projects of departmental significance, the attached 16 practical developments and 26 research works.

IV. THEMATIC ORIENTATION OF THE SCIENTIFIC PAPERS

The analysis of the scientific activity of Associate Professor Dr. Rosen Stankov Iliev shows that his scientific interests cover a wide range of problems and demonstrate a variety of creative activities. His research, which has a clear scientific and applied nature, covers the following main areas:

1. Methods, approaches, models and research related to the creation and development of automated control systems, including for the needs of defense.
2. Development of information and communication systems and technologies.
3. Research covering integrated information environments for collaboration.
4. Development of computer systems to support decision making in specific conditions.

IV. CONTRIBUTIONS OF SCIENTIFIC PAPERS

As a scientific contribution of a methodological nature I accept the approaches and methodology for solving specific problems in the field of information processing, methods, methods and solutions related to the creation of automated control systems in the specific conditions of the Bulgarian Army.

1. Systematization of knowledge in a broad scientific field, covering the thematic focus of this competition, but also extending beyond it, in the entire scientific production of the candidate.
2. Approaches, methods and models related to improving information processing [II.3.1, II.3.2, II.3.3, II.3.4, II.3.5, II.3.7, II.3.8, II.3.17, II.3.21, II.3.33, II.3.34, II.3.44, II.3.52, II.3.53, II.3.54, II.3.56, II.3.66].
3. Research concerning information systems and technologies, including the construction of data centers [II.2.2, II.3.24, II.3.26, II.3.38, II.3.43, II.3.45, II.3.46, II.3.47, II.3.48, II.3.49, II.3.50, II.3.55, II.3.57, II.3.60, II.3.74].
4. Methods, tools and technologies related to the creation of integrated information systems for joint work, including computer systems for decision support in crisis management [II.2.1, II.2.5, II.3.10, II.3.11, II.3.22, II.3.28, II.3.39, II.3.65, II.3.68, II.3.69, II.3.69, II.3.71, II.3.72, II.3.75, II.3.76, II.3.77].
5. Water modeling and management [II.1.1, II.2.3, II.3.13, II.3.15, II.3.16, II.3.18, II.3.19, II.3.20, II.3.27, II.3.35, II.3.36, II.3.36, II.3.73, II.3.78].
6. Automated control systems for the needs of defence [II.4.37, II.4.38, II.4.39, II.4.40, II.4.41, II.4.42, II.4.43, III.24, III.25].

VI. APPLIED CONTRIBUTIONS

The results obtained from the applicant's research, which show their applicability and content, in the full volume of the scientific production.

VII. PERSONAL IMPRESSIONS

I know the candidate well, including from our many years of joint work in research institutes related to the country's defence. I am also familiar with a large part of his scientific production, which by their nature cannot be the subject of

public discussion. My detailed acquaintance with the materials of this competition further strengthened my impressions of Associate Professor Dr. Eng. Rosen Stankov Iliev as a well-established and authoritative scientist. This feeling is reinforced by the doctoral students prepared by him.

CONCLUSION

The analysis of the scientific production of Associate Professor Dr. Eng. Rosen Stankov Iliev gives me reason to conclude that he is an authoritative scientist. In view of this and taking into account the requirements of the "Law on the Development of the Academic Staff of the Republic of Bulgaria" and the Regulations for its implementation, as well as what is said in full in this review, **I will vote positively** for the election of Associate Professor Dr. Eng. Rosen Stankov Iliev for holding the academic position "PROFESSOR" at "Professor Tsvetan Lazarov" Defence Institute.

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