

OPINION

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Professional field 3. Social, economic and legal sciences,

Member of the Scientific Committee appointed by order of the Rector of NBU 3-PK-231/22.07.21, on competition for occupying the academic position " Professor" in the professional field 3.Social, Economic and Legal Sciences, scientific area 3.2. Psychology, published in State Gazette No 51/18.06.2021, with **Assoc. Prof. Dr. Moris Avram Greenberg** single applicant for the position

I. Assessment of compliance with the minimum national requirements and NBU requirements.

From the materials presented in the competition by Assoc. Prof. Dr. Greenberg and more precisely from the Table of "Individual assessment under the Law on the Protection of Human Rights and Fundamental Freedoms," it is clear, without doubt, that the candidate has exceeded not only the national but also the requirements of NBU. This is especially true for indicators D and on, where the candidate's points are times more than the stated benchmark. The list includes 28 articles in refereed (peer reviewed) and indexed journals; 32 articles in non-refereed journals; 4 chapters (studias) in refereed and 4 in non-refereed works; 61 citations in refereed journals; 3 Ph.D students' supervisory work; scientific management of 10 national and international research projects; about 30 public lectures presented at various national and international forums (6 of which with extremely high rating); recognized creative realization as a teacher and author of unique bachelor's and master's programs in Bulgarian and English; exceptional interest in the application of academic knowledge through dissemination, publication, project participation, organization and participation in international schools for the training of students and young researchers, etc.

II. Research (creative) activity and results

1. Evaluation of the monographic work, including evaluation of the scientific and scientific-applied contributions of the author.

The monograph gives a summary of the different stages of development of the ideas of Assoc. Prof. Dr. Greenberg on the use of complex cognitive models of simulations to shed light on the role of knowledge in the decision-making process in resolving social dilemmas. These ideas are defended in 18 of his articles, as the author himself writes, but are expanded, supplemented and united in the monographic work "Social Dilemmas". At the same time, the monograph introduces completely new ideas and results from current research, to which the entire IV part of the monograph, dealing with

agent-based models with reinforced learning, is devoted. By emphasizing and contrasting the choices of cooperative (collaborative) behavior in single and multiple play (type Prisoner Dilemma), by assessing the expected usefulness of the outcome for each participant and the impact of reinforced learning, Dr. Greenberg analyzes social dilemmas and decision making as a product of various complex cognitive (but also social) factors, including the type of game, selective attention, type of interaction, group affiliation, games' roles, etc. The author comes to the conclusion of creating multi-agent systems, in this case — a multi-agent model of cooperation, which demonstrates sustainable cooperation.

2. Evaluation of contributions.

The contributions indicated in the Self-assessment report of the candidate are exhaustive and fully confirm the stated theoretical and applied aspects in his scientific production. In a sense, most of them have strong applied nature, insofar as they either complement and introduce new description mechanisms in already established structures such as AMBR / DUAL; or propose new cognitive architecture (TRIPLE), new decision-making models taking into account reinforcement and game type (CSRL, SARL, Model-A), innovative research with eye-tracking equipment during the game Prisoner's Dilemma, realization of relational models through game theory.

3. Citation by other authors.

The 61 citations in refereed journals mentioned in the Self-assessment Report exceed the national requirements stated in the “Act on Development of the Academic Staff in the Republic of Bulgaria” and those set by the NBU’s normative documents.

4. Evaluation of the results of participation in research and creative projects and application of the obtained results in practice.

Dr. Grinberg is an active initiator and manager of research projects. He is successfully using different grant systems to fund his research interests, including project management in the Fifth and Sixth Framework Programs, Tempus and others. Altogether, within a period of 20 years, Dr. Grinberg took part in 16 projects. As to the quality of the work, undoubtedly, they were highly praised otherwise their number wouldn't be so high. And that in turn indicates that the creative ideas of Dr. Greenberg, face good implementation and support from the national and the international scientific community, not least because of his active membership in 5 different professional organizations.

III. Teaching and learning activities

1. Classroom and extracurricular employment, work in the electronic training module "MOODLE - NBU," providing student internships and internships, work with students and PhD students.

In the last academic year Dr. Grinberg has had more than the required number of hours (269 hours) auditory activity. He has introduced 7 courses for the Bachelor and Master Programs at NBU; has been instructor in 8 auditory and 2 non-auditory courses in English; has participated in 9 international summer schools and seminars; has been invited as a lecturer and has taught 6 courses in Universities outside Bulgaria; has been tutor for 9 graduates and had participated in 30 state exam committees; has prepared 20 reviews of bachelor's and master's theses; and has organized numerous student's internships at the Cognitive Departments' Laboratories.

2. Working with Erasmus students.

All courses taught by Dr. Greenberg in English language are enrolled by Erasmus students, especially those at the Master Program.

IV. Administrative and public activities

1. Participation in collective governing bodies of NBU.

As a member of the Faculty at NBU (more than 20 years), Dr. Greenberg has held and continues to hold a number of managerial positions. Among them are: Deputy Rector for Quality, Evaluation and Certification of NBU; Director of the Laboratories "Artificial Cognitive Systems" and HiLab; Director of the NBU Evaluation Center; Director of the Bachelor Program for distinguished students, and Director of the Master Program in Cognitive Sciences. These positions reveal a very active participation in the administrative governing bodies of NBU.

2. Social activity.

Dr. Grinberg demonstrates a strong commitment to disseminating the current achievements of cognitive (social) psychology in a non-professional environment by participating in TED shows, public forums, etc. The topics are highly sensitive and most often deal with the interpretation and application of scientific explanations related to the decision-making processes and resolving social and moral dilemmas in particular social environments. Dr. Greenberg is open to different types of social activities and among them public lecturing is most strongly followed.

VI. Opinions, recommendations and notes on the activity and achievements of the candidate

My opinion is that Dr. Greenberg should have applied for professorship earlier in time. My arguments are based on his long and successful experience as course instructor and tutor, his project managing abilities, his innovative research qualities and high citation rate of his works. All of the above makes him eligible for becoming a full professor and faculty member at most academic national and international institutions.

VII. Conclusion

Giving a high evaluation of the candidate's achievements and having in mind all arguments stated above, I propose Assoc. Prof. Moris Greenberg to the Scientific Jury to be given positive evaluation and to be elected by the Academic Council of NBU as a Full Professor in the professional field 3. "Social, Economic and Legal Sciences" and scientific area 3.2. "Psychology".

Date 17.09.2021

Signature