

EVALUATION STATEMENT

with regard to a contest for the academic position of Associated Professor
in 5.2. 'Electrical Engineering, Electronics and Automation' professional orientation,
'Power Electronics' academic discipline, announced in SG, Issue 93 of 26/11/2019

Applicant: Angel Stanimirov Marinov Eng.D.

Scientific Jury Member: Prof. Mihail Petkov Iliev, D. Eng. Sc.

1. General Characteristics of the Applicant's Scientific and Applied Research

Angel Stanimirov Marinov Eng.D. participates in the contest for the academic position of Associated Professor with 50 scientific publications categorized as follows:

- 13 scientific publications in editions referenced and indexed by internationally acclaimed scientific databases, equivalent to a habilitation thesis as per the Act on Academic Staff Development in the Republic of Bulgaria [B4.1 - B4.13];
- 11 scientific publications in editions referenced and indexed by internationally acclaimed scientific databases [Г7.1 - Г7.11];
- 26 scientific publications in unreferenced journals requiring review of scientific production or in edited volumes [Г8.1 - Г8.26].

6 of the submitted publications within the contest are single-authored. No appendix has been presented for assignment of authorship in the collaborative publications and I have therefore assumed equal authorship for the contributors listed.

Angel Marinov Eng.D. has produced over 60 scientific publications, inclusive of 44 ones indexed within SCOPUS and Web of Science databases. The author's citation report includes 17 citation counts, incl. 8 ones in editions referenced and indexed by internationally acclaimed scientific databases. In his capacity as Head of the 'General Engineering' Scientific Section at the Research Institute of the Technical University of Varna the applicant actively participates in R&D activities.

2. Evaluation of the Applicant's Pedagogical Competence and Activities

Angel Stanimirov Marinov Eng.D. is a graduate of the Technical University – Varna. In 2012 he earned a doctoral degree of the same higher education institution. The applicant was subsequently selected for Assistant and Associated Professor at the Technical University – Varna where he has delivered courses and lectures at various academic subjects in the curricula of Bachelor's and Master's programmes. Angel Marinov Eng.D. is the co-author of 2 methodological manuals and 7 syllabi for students from different specialties in professional orientation 5.2 'Electrical Engineering, Electronics and Automation' at TU-Varna. All in all, it can be concluded that the teaching work and pedagogical activities of Angel Stanimirov Marinov Eng.D. are diverse and meaningful.

3. Key Scientific and Applied Research Contributions

The contributions in the applicant's scientific production have applied research characteristics and could be categorized as follows:

- Argumentation of materials and structures for implementation of magnetic components for power electronic converters (PEC);
- Proposed modified algorithms for research of PEC;

- Proposed modified solutions for circuit design of PEC having improved energy and performance indicators;
- Proposed research and modelling approaches and algorithms for electrothermal equipment and processes;
- Proposed circuits and structures for application of piezoelectric polymer elements;
- Enhanced algorithms and software solutions for e-learning in electronics;
- Proposed modified solutions for smart energy systems, research and control systems for electric machines and renewable energy systems.

4. Significance of Contributions to Science and Practice

The contributions of Angel Stanimirov Marinov Eng.D. have applied research characteristics, could be applied in practice and classified as follows:

- Enhancing knowledge and systems through formulation of innovative approaches in existing scientific areas;
- Developing modified algorithms, methods and circuits and obtaining supporting facts.

5. Critical Remarks and Recommendations

I have no substantial comments to the materials submitted for participation in this contest. I would recommend that the applicant:

- Narrow down his research area in view of achieving more significant results and their publishing in high impact scientific journals;
- Seek possibilities for building a team of young researchers to work in the field so as to enable participation in significant local and international projects.

Conclusion

The scientific production submitted for participation in this contest and subject to evaluation is in line with the scientometric requirements outlined in the Act on Academic Staff Development in the Republic of Bulgaria and in the normative documents for taking the academic position of Associated Professor at the Technical University – Varna. Angel Stanimirov Marinov Eng.D. has completed the required diverse and meaningful research and teaching work.

In consideration of the above I would reasonably propose that Angel Stanimirov Marinov Eng.D. be selected for the academic position of Associated Professor in 5.2. 'Electrical Engineering, Electronics and Automation' professional orientation at the Technical University - Varna.

18/02/2020

Prof. Mihail Petkov Iliev, D. Eng. Sc.