

EVALUATION STATEMENT

with regard to a contest for the academic position of Associated Professor
in professional orientation 5.2. 'Electrical Engineering, Electronics and Automation',
academic discipline 'Electrical Measurements', announced in SG, Issue 55 of 12/07/2019
Applicant: Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD

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

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

Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD participates in the contest for the academic position of Associated Professor with 12 scientific publications, incl. a monograph and 11 scientific articles, categorized as follows:

- 10 scientific articles in journals having ISSN identifier: [Г7.1, Г7.2, Г7.3, Г7.4, Г7.5, Г8.1, Г8.2, Г8.3, Г8.4, Г8.6], 5 of which are referenced and indexed by internationally acclaimed scientific databases: [Г7.1, Г7.2, Г7.3, Г7.4, Г7.5];
- 1 publication in TU-Varna's scientific conference proceedings having ISBN identifier: [Г8.5].

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

Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD has produced over 35 scientific publications, amongst which 9 articles in scientific journals and conferences with an impact factor or SJR values. The applicant has participated in the teams of 10 scientific research projects. He has repeatedly been awarded for excellence and diligent research.

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

Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD is a graduate of the Technical University – Varna and was subsequently selected for Assistant and Chief Assistant Professor at the Department of Theory of Electrical Engineering and Measurement at the same university. In 2016 he earned a doctoral degree. The applicant lectures various academic subjects. He is the co-author of 6 teaching aids for students in professional orientation 5.3 'Communication and Computer Equipment' and 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 Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD 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:

3.1. In the monograph:

- A concept for learning and application of innovative measurement methods and tools;
- Approaches to direct measurement of signal parameters;
- Modified methods and algorithms for measuring signal frequency, impedance

characteristics parameters of a two-port system and generation of a certain type of signals.

3.2. In the articles submitted for participation in the contest:

- Methods for measuring signal parameters using signal analysis, processing and synthesis;
- Software for signal processing in MATLAB environment.

4. Significance of Contributions to Science and Practice

The contributions of Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD 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 and methods and obtaining supporting facts.

5. Critical Remarks and Recommendations

I would make the following comments to the materials submitted for participation in this contest and recommendations to the applicant's future work:

- The number of the applicant's publications for participation in this contest is rather small. It is evident from the materials submitted for preparation of an evaluation statement that the applicant has produced 28 publications further to his doctoral dissertation but participates in the contest for the academic position of Associated Professor with 11 publications.
- The bibliographies at the end of the monograph chapters do not include the author's publications. The notes in Chapter Three (p.73 note 47, p. 83 note 50 and p. 91 note 52) make a reference to the applicant's publications but the latter are not included in the bibliographies.
- It is recommended that the applicant 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 of Varna. Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD has completed the required diverse and meaningful research and teaching work.

In consideration of the above I would reasonably propose that Chief Asst. Prof. Hristo Zhivomirov Karaivanov, PhD be selected for the academic position of Associated Professor in 'Electrical Measurements', professional orientation 5.2. 'Electrical Engineering, Electronics and Automation' at the Technical University of Varna.

14/10/2019

Prof. Mihail Petkov Iliev D. Sc