

## **REPORT**

by Prof. Evdokia Nikolaeva Sotirova, PhD

“Prof. Dr. A.Zlatarov” - Burgas

on the materials provided by

Chief assistant professor Emil Hristov Doychev, PhD

for a competition procedure for awarding the academic position “Assoc. Professor”  
in the higher education area 4. Natural Sciences, Mathematics and Informatics,  
professional field 4.6. Informatics and Computer Science, scientific field “Informatics  
(Informatics-Software technologies)“, for the needs of the Plovdiv University „Paisii Hilendarski“  
issued by the Government Newspaper in No 57/26.06.2020 г.

Grounds for writing the report are order P33-4129/25.08.2020 of the Rector of the Plovdiv University „Paisii Hilendarski“ Prof. Rumen Mladenov, PhD for determining the members of the Scientific Jury and Protocol 1 of the meeting of the Scientific Jury. This opinion has been prepared in accordance with the Law for the Development of Academic Staff in the Republic of Bulgaria (ZRASRB), the Rules for the Implementation of the ZRASRB, the Rules for for the Development of Academic Staff in the Plovdiv University „Paisii Hilendarski“ (amended and supplemented on 10.06.2019 г) and The additional faculty requirements of the Faculty of Mathematics and Informatics (FMI) in Plovdiv University.

The only candidate for the competition is chief assistant professor **Emil Hristov Doychev**, PhD.

### **1.General details of the applicant**

**Emil Hristov Doychev** was born on 02.04.1975. He graduated with a master's degree in 1999 at Plovdiv University „Paisii Hilendarski“, Faculty of Mathematics and Informatics, specialization mathematics with professional qualification mathematician and computer scientist. In 2013 at the same university he obtained a PhD in the higher education area 4. Natural Sciences, Mathematics and Informatics, professional field 4.6. Informatics and Computer Science.

The attached documents show that the applicant that the candidate has started his work experience as a team leader, then as an IT project manager for software application development (from 2001 till now). In 2011 he was appointed to the position of “assistant professor” at the Plovdiv University “P. Hilendarski”, from 2014 till now he works as „chief assistant professor“.

## **2. Description of the presented materials**

The presented materials and documents for participation in the competition, are in accordance with the Rules for the development of the academic staff at Plovdiv University „Paisii Hilendarski“.

For participation in the competition Chief Assist. Prof. Emil Hristov Doychev, PhD presented 25 scientific publications, all after receiving the scientific title „Chief assistant professor“ (7 in journals ([1]-[7]), 18 in the conferences and books ([8]-[25]), of which:

- 1 publication with Impact factor ([1]), 5 publications with SJR index ([9], [10], [12], [13], [14], [21]);

- 5 chapters of books, which according to the specific requirements of FMI is equal to 1 article in a journal with an impact factor or two articles in a journal – [5], [6], [17], [18], [21].

Attached are following reports: annotations (abstracts) of the scientific works for participation in the competition and author's references; one co-authored university textbook and one workbook; references for satisfaction of the additional faculty requirements of the FMI in Plovdiv University, according to 65.(3) from the Rules for the development of the academic staff at Plovdiv University, documents, certifying the educational activity performed by the candidate, reports on the candidate's citations; research projects at the Research Fund; 1 international project under the DAAD program; participation in 10 international and national scientific forums.

The presented documents are very well described and arranged.

## **3. General characteristics of the applicant's teaching, research and applied activities.**

From 2011 till now the applicant at the Plovdiv University in different courses in the field of software technologies for students of Bachelor's and Master's degrees. He has participated in an international project on DAAD “Software Engineering: Computer Science Education and Research Cooperation”, in which the main direction is to create a common course between groups of different universities participating in the project in the discipline “Software technology”. - JCSE (Joint Course in Software Engineering). Chief assistant professor Emil Hristov Doychev is the co-author of one university textbook „Software technology“ [26] and of one workbook „Software technology workbook“ [27], issued by Plovdiv University Publishing House, respectively in 2006 and 2003. He has supervised 20 successfully defended diplomats and has been actively involved in a variety of university teaching activities. All this gives me a reason to highly appreciate the pedagogical experience of the candidate in the competition.

Chief assistant professor Emil Doychev's scientific interests are mainly focused on extremely current topics - technological support for learning through modern educational environments, enabling its personalization, as well as personalization of services offered. The possibilities of such intelligent spaces for communication with the user, tracking of the happening

events, allows drawing of connected conclusions, proposing possible solutions and undertaking concrete actions. The candidate in the competition has serious applied and scientific achievements in working with virtual educational spaces. I support the presented scientific and applied contributions and the grouping of the main achievements of the candidate in the following three main areas: creation of architecture and realization of virtual educational space, creation of reference architecture for ecosystems in the Internet of Things (Virtual Physical Space - ViPS) , and finally - the adaptation of ViPS to different areas of application with a main focus - e-learning and testing, as well as agriculture and tourism.

#### **4. Critical notes and recommendations.**

There are some inaccuracies in the documents presented, for example in the description of the publications in section item Emil Doychev 5.1. Minimum national requirements, groups G7 and G8.

I would recommend to Emil Doychev to continue the started research.

#### **5. Conclusion**

The materials and documents presented by Chief assistant professor Emil Hristov Doychev fully satisfy the requirements of the ZRASRB and the Rules for its implementation. The number of points in the groups of scientometric indicators satisfies the minimum number of points in accordance with the Rules for the Development of Academic Staff in the Plovdiv. The additional faculty requirements of the Faculty of Mathematics and Informatics in Plovdiv University are satisfied.

**This is the reason to give my positive evaluation of the materials for participation in the competition and to recommend to the honorable members of the Scientific Jury to vote for the adjudication of assistant professor Emil Hristov Doychev to the academic position “Assoc. Professor” in the field of Higher Education 4. Natural Sciences, Mathematics and Informatics, professional field 4.6. Informatics and Computer Science, scientific field “Informatics (Informatics-Software technologies)“, for the needs of the Plovdiv University „Paisii Hilendarski”.**

10.10.2020 r

Burgas

Assessor:

(Prof. Evdokia Sotirova, PhD)