

Lecture Notes in Networks and Systems 1799

Dalila Durães · Anne-Cecile Caron ·
Sokratis Karkalas ·
Minoru Nakayama · Loreto Lancia ·
Zuzana Kubincová *Editors*

Methodologies and Intelligent Systems for Technology Enhanced Learning, Workshops - 15th International Conference

 Springer



General Aspects of Knowledge Management for the Assessment of Academic Outcomes

Mihai Petrov¹ , Velichka Traneva¹ , Stoyan Tranev² , Meglena Lazarova³ ,
Venelin Todorov^{4,5} , and Antonina Ivanova⁶ 

¹ Department of Mathematics, Informatics and Physics, Burgas State University Prof. Dr. Asen Zlatarov, 1 Prof. Yakim Yakimov Blvd., 8010 Bourgas, Bulgaria
mihpetrov@abv.bg, vtodorov@math.bas.bg

² Industrial Technologies and Management, Burgas State University Prof. Dr. Asen Zlatarov, 1 Prof. Yakim Yakimov Blvd., 8010 Bourgas, Bulgaria
tranev@abv.bg

³ Faculty of Applied Mathematics and Informatics, Technical University of Sofia, 8 "Kliment Ohridski" Blvd., 1000 Sofia, Bulgaria
meqlena.laz@tu-sofia.bg

⁴ Department of Informational Modeling, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 8 Acad. Georgi Bonchev Str., 1113 Sofia, Bulgaria
venelin@parallel.bas.bg

⁵ Department of Parallel Algorithms and Machine Learning With a Laboratory in Neurotechnology, Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, 25A Acad. Georgi Bonchev Str., 1113 Sofia, Bulgaria

⁶ Varna Free University, Yanko Slavchev Str. 84, 9007 Varna, Bulgaria
antonina.ivanova@vfu.bg

Abstract. This study suggests a methodical elaboration of data processing of training processes with the application of demand-supply economic management procedure. The bases of examination processes can be applied to assess criteria related to the efficiency of academic results. The procedures of economic management are applied with the aim of highlighting new directions of scientific management which is a tool for the elaboration of the new strategies for high qualified academic outcomes. The analytical expressions of supply - demand academic processes are suggested and the calculated results are compared with the real ones.

Keywords: Academic Outcomes · Management · supply-demand · Gauss distribution

1 Introduction

The process of training and obtaining professional qualifications is a very important stage for human life. Pedagogical teaching staff has the mission of ensuring a qualitative process and an adequate psychological environment for communication between students and teachers. Training a young cadre is an art and requires skills, possibilities and