



ПРОГРАМНО-ТЕХНІЧНІ КОМПЛЕКСИ

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INFORMATION TECHNOLOGY FOR THE PROCTOR TO DETECT VIOLATIONS DURING THE EXAM¹

Abstract. This article discusses the current problem of cheating students of higher educational institutions during the exam. The subject area is investigated and the results of theoretical and empirical research of cheating as one of the forms of academic fraud of students of higher educational institutions are presented. Statistical data of violations during the exam are shown and the main patterns of violations during the period of distance learning are revealed. The results of the study will help to determine in what period of the final certification students violate the rules of academic honesty more often.

Keywords: distance learning, timing of violations, examination session, clustering, decision making.

INTRODUCTION

The COVID-19 pandemic has led to the largest disruption to education systems in history, affecting nearly 1.6 billion students in more than 200 countries and all continents [1]. The closure of educational institutions affected 94 percent of the world's student population. At the same time, it should be noted that the crisis served as a stimulus for innovation in the field of education. Innovative approaches are used to ensure the continuity of education and training [2]. As indicated in the "Digital Skills of Teachers" section, the skills of teachers should be digitally oriented to find, evaluate and use learning materials in the Internet [3].

In the study [4] it was revealed that after Covid-19, the proctoring system will be very useful for universities that can implement it.

Note that the dialogue around online education has moved to a new level. Various aspects of online courses are reviewed and discussed, such as modality (completely online or hybrid; synchronous or asynchronous), technology platform, assessment and accessibility [5]. The goal of such a dialogue is to develop modern proctoring systems in which examinations are at least as good as traditional examinations [6, 7]. All over the world, the number of educational institutions that

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