The Effect of Computer Games on the Personality and Creativity of Students of University Interested in Gaming Using Data Mining Techniquesl

Niloofar Mirzaei Chahardeh[*]   Mahdi Mazinani[†]

Abstract

Psychologists and sociologists have proposed various theories highlighting the deep connections between computer games and young people's lives, emphasizing their significant impact on morale and personality development. The computer game industry has emerged as one of the most widespread and profitable sectors in youth entertainment. Examining the effects of computer games on different aspects of personality is essential. In this context, a research study titled "The Impact of Computer Games on the Creativity and Personality of Students Interested in Games" was conducted involving a sample of 53 university students. A questionnaire was used for data collection. Data mining techniques, particularly clustering, were employed to analyze the data, with the K-Means algorithm being the primary method used. The results indicate a direct impact of computer games on several personality traits among students, including hidden stress, increased introversion, and a sense of distance from family. Furthermore, the research revealed a positive correlation between computer games and enhanced problem-solving creativity and quicker decision-making abilities.

Keywords: Data Mining Techniques, Computer Games, Personality

[*]Department of Computer Engineering, Islamic Azad University, Science and Research Branch, Tehran, Iran
Niloofar.Mirzaei@srbiau.ac.ir

[†]Department of Electrical and Electronic Engineering, Islamic Azad University, Shahr-e-Quds Branch, Tehran, Iran
Mahdi.mazinani@qodsiau.ac.ir