PROPOSED MODEL FOR AUTOMATIC LEARNING STYLE DETECTING BASED ON ARTIFICIAL INTELLIGENCE

Marko Bursać[1], MSc; Danijela Milošević[2], PhD; Katarina Mitrović[3], MSc
[1] High railway school of vocational studies, Belgrade, SERBIA, marko.bursac@vzs.edu.rs
[2] University of Kragujevac, Faculty of Technical Sciences, Čačak, SERBIA, danijela.milosevic@ftn.kg.ac.rs
[3] University of Kragujevac, Faculty of Technical Sciences, Čačak, SERBIA, katarina.mitrovic@ftn.kg.ac.rs

***Abstract**: The aim of this paper is to introduce an model for the automatic prediction of learning style based on artificial intelligence methods. The proposed model has three phases: student data collection; the cluster phase and the phase of prediction learning style for new users who are not yet defined. In this work, the methods of clustering (Fuzzi c-Means alhorithm) were used to define eight Felder-Solomon learning styles. By using artificial neural networks based on clustered data, the model defines a learning style for new users. The results presented in the paper give the possibility to use models with the aim of reducing the error in determining the style of learning.*

***Keywords:** Artificial neural network, Fuzzy c-Means, Felder-Silverman learning style, Adaptive learning*