

Use of Big Data and AI in digital competence measurement

Zoltán Szűts^a

^aEKE
szuts.z@eik.bme.hu

Abstract

This paper proposes a new method of efficiency measurement of teacher's digital competences by using applied informatics and Big Data. Firstly, it presents the importance of teacher digital competence measurement in the European Union with an emphasis on DigComEdu. Secondly, it argues that there are several challenges and inaccuracies regarding attitude-based surveys and task testings in a virtual environment. Thirdly, it points out the Big Data methods and Artificial Intelligence as one of the solutions. Finally, it brings some conclusions.

The cornerstone of the paper is the fact that we live in an information society where more and more interaction takes place in a network environment. This means that the learning activities and education-based communication are also digital. Several elements of education are stored in clouds and analyzed by computers and algorithms.

In this talk, the author presents the idea of a global educational ecosystem where all the teaching activity is logged to assess the real level of teachers' digital competences.

Keywords: digital competences, Big Data, AI