

BIG DATA AND E-LEARNING: THE IMPACT ON THE FUTURE OF LEARNING INDUSTRY

Valentin PAU¹
Marius Iulian MIHAILESCU²

Rezumat. În prezent, unul dintre cele mai interesante aspecte ale e-Learning-ului este acela de evoluție continuă, arhitectura big data reprezentând o componentă importantă, asupra căreia comunitățile e-Learning au început să se oprească din ce în ce mai mult. Lucrarea de față își propune analizarea beneficiilor tehnologice ale conceptului de tip big data și impactul asupra viitorului e-Learning-ului dar și menționarea aspectelor critice ce țin de integritatea datelor.

Abstract. In nowadays, one of the most interesting aspects of e-Learning is that he is continuously evolving, where, the big data architecture represents an important component over which the e-Learning communities has stopped more and more. In our work paper we will analyze the technological benefits of the big data concept and the impact on the future of e-Learning but also we will mention the critical aspects regarding the integrity of the data.

Keywords: big data, e-Learning, platform, integrity

1. Introduction

When we are talking about *big data*, especially when it comes up about e-Learning industry, the definition of big data is suffering a small modification, which can be stated as “the data created by learners during their online training and courses in which are enrolled”.

There are many definitions for *big data* and most of them are adapted according to the needs of the market, infrastructure and user requirements. Below, we have presented some of the latest definitions about *big data*, which from this year, 2015, are more flexible and easy to understand with the environment itself. Analyst, *Doug Laney* [6], has characterized *big data* as “*data that’s an order of magnitude greater than data you’re accustomed to*”; IBM’s chief executive, *Virginia Rometty*, preconize that “*there will be 5.200 gigabytes of data for every human on the planet by 2020*”; one of the Forbes contributor, *Raj Sabhlok* [7], state that “*he right data and the right time not only reduce stress but also boosts your productivity. And that goes for your company too.*”; the director from Social Innovation Fund [8], *Michael D. Smith*, believe in a positive way as being” ...a

¹Prof., PhD, PhD (ABD), Eng., *Titu Maiorescu* University, full/member of the Academy of Romania Scientist (e-mail: v_pau@utm.ro).

²Lect. Ph.D, *Titu Maiorescu* University.