Chapter 4
About Digital Avatars for Control Systems Using Big Data and Knowledge Sharing in Virtual Industries

Vardan Mkrttchian
HHH University, Australia

Ivan Palatkin
K. G. Razumovsky Moscow State University of Technologies and Management, Russia

Leyla Gamidullaeva
Penza State University, Russia

Svetlana Panasenko
Plekhanov Russian University of Economics, Russia

ABSTRACT
The authors in this chapter show the essence, dignity, current state, and development prospects of avatar-based management using blockchain technology for improving implementation of economic solutions in the digital economy of Russia. The purpose of this chapter is not to review the existing published work on avatar-based models for policy advice but to try an assessment of the merits and problems of avatar-based models as a solid basis for economic policy advice that is mainly based on the work and experience within the recently finished projects Triple H Avatar, an avatar-based software platform for HHH University, Sydney, Australia. The agenda of this project was to develop an avatar-based closed model with strong empirical grounding and micro-foundations that provides a uniform platform to address issues in different areas of digital economic and creating new tools to improve blockchain technology using the intelligent visualization techniques for big data analytics.

DOI: 10.4018/978-1-5225-7519-1.ch004
INTRODUCTION

The model of teaching students in an environment enabled by the evolutions in modern virtual industry software tool is in need of a new paradigm for solving problems of human-computer interaction. This is especially so if Block chain technology is to be adopted in order to implement human-computer interaction in the education sector in an economically viable way. The purpose of this chapter is not to consider existing literature on avatar-based models for the purpose of providing policy advice. Rather, the purpose is to attempt to evaluate the merits and problems of avatar-based Electronic/Ubiquitous/pervasive learning (E/U-learning 4.0) models as a solid basis for economic policy recommendations that are mainly based on performance. The scope of performance covered in this chapter is the reflexive adaptability of the E/U learning software system.

The chapter is organized as follows. The introduction is followed by the inspiration for the chapter; a background highlighting software adaptivity of E/U-learning software; an analysis on the reflexive adaptation of E/U-learning software; solutions and recommendations to attaining reflexive adaptation of E/U learning software; and a conclusion.

INSPIRATION FOR THE CHAPTER

The chapter is written based on the reflections on the experiences in a recently completed project at the HHH University, Sydney, Australia. In this project christened the “Triple H Avatar”, an Avatar-based Software Platform was developed for HHH University, Sydney, Australia. The agenda of this project was to create a closed model based on avatars supported with strong empirical grounding and micro levels. The avatars will provide a single platform for solving problems in the educational sector and it also has the potential to address various areas of the digital economy. It will also create new tools for improving upon Block chain technology using Intelligent Visualization technologies for Big Data Analysis and Knowledge sharing in virtual industries as well. (Mkrtchian, and Aleshina, 2017). In this section, an overview of the Triple H Avatar and its implications on E/U learning software systems will be discussed.

Triple H Avatar and E/U Learning

This approach adopted by the HHH University, Sydney, Australia to the learning model using Block chain technology led to the creation of Electronic / Ubiquitous Learning - pervasive e-learning (E/U-Learning 4.0)-) or new tools for improving upon
Knowledge Portals: A Review
[www.igi-global.com/article/knowledge-portals/218231?camid=4v1a](www.igi-global.com/article/knowledge-portals/218231?camid=4v1a)

An Integrated Risk Management Framework: Measuring the Success of Organizational Knowledge Protection
[www.igi-global.com/article/an-integrated-risk-management-framework/117903?camid=4v1a](www.igi-global.com/article/an-integrated-risk-management-framework/117903?camid=4v1a)