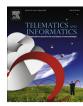
FISEVIER

Contents lists available at ScienceDirect

Telematics and Informatics

journal homepage: www.elsevier.com/locate/tele



CrossMark

Factors affecting the e-learning outcomes: An integration of TAM and IS success model

Hossein Mohammadi*

Department of Public Administration, Allameh Tabataba'i University, Tehran, Iran



Article history:
Received 14 December 2014
Received in revised form 28 February 2015
Accepted 4 March 2015
Available online 17 March 2015

Keywords:
E-learning
Quality
Satisfaction
Intention
Actual use
Perceived learning assistance

ABSTRACT

an The purpose of this paper is to exami egrated mod TAM and IS success model to explore the effects of quality features, per ved ease of use, perceived usefulness on users' intentions and satisfaction nd their effect n e-learning outcomes such as actual stance, alongside the hediating effect of usability towards use and perceived learning use of e-learning in Iran. sed on the e-learning user data collected through a survey, structural equations mode ng (SEM) and the analysis were employed to test the research model. The results reveal that "intent" and "user satisfaction" both had positive g. "System quality" and "information quality" were found effects on actual use of e-lead tors driving ntentions and satisfaction towards use of e-learnto be the prim ing. E-learning ch as actual use and perceived learning assistance were posind intention. At last, "perceived usefulness" mediated tively predicted n ease of use and users' intentions. The sample consisted of e-learnthe relationship be four pu ic universities in Iran. Past studies have seldom examined an inteted mo l in the ntext of e-learning in developing countries. Moreover, this paper ries to r Liter cure review of recent published studies in the field of e-learning. © 2015 Elsevier Ltd. All rights reserved.

1. Introduction

To meet educational purposes and students' demands, e-learning development emerges to be a catalyst for today educational institutions (D and Palyobo, 2013; Alsabawy et al., 2013). E-learning can be defined as a dynamic and immedigmen, brough the use of internet to improve the quality of learning by providing students with access to ate learning with distant exchange and collaboration (Jeong and Hong, 2013; Dominici and Palumbo, resources d ser earning pports learners with some special capabilities such as interactivity, strong search, immediacy, physical mobility ucational activities, self-organized and self-directed learning, corporate training, personalized effective technique of delivering lesson and gaining knowledge (Martin and Ertzberger, 2013; Viberg and Dominici and Palumbo, 2013; Jeong and Hong, 2013; Bidin and Ziden, 2013). E-learning has a positive impact on both there and students in that it positively affects the duration of their attention, learning and training tenacity, and their attitudes towards collaboration and interaction (Ozdamli and Uzunboylu, 2014; Chen and Tseng, 2012). Past studies have indicated that anywhere and anytime learning and access to information and communication are facilitated through using e-learning (Pena-Ayala et al., 2014; Islam, 2013; Chen and Tseng, 2012; Ho and Dzeng, 2010). Kratochvíl

E-mail address: Hossein662@gmail.com.

^{*} Address: Pars Pamchal Alley, Block 17, No 2, Naghshe Iran St. Ansar Alhossein St. Second Square, Kosar, Qazvin, Iran. Tel.: +98 9192864512, +98 9370845268

(2013) and Abachi and Muhammad (2013) note that all individuals involved in e-learning are fond of using it towards learning because of flexible access in terms of time, space, and pace and online collaborative learning. However, demand for the development of e-learning is increasingly growing; still the need for research on potential factors affecting e-learning adoption like quality which is the heart of education and training in all countries (Ehlers and Hilera, 2012) and its outcomes, is felt especially in the context of developing countries (Masoumi and Lindstrom, 2012), a fact that warrants investigation into it. This is followed by the fact that Iranian students' lack of preference for using e-learning, in spite of all pre-mentioned advantages, has created a gap which is seen as a major obstacle in its mass usage and warrants investigation of its reasons. This is in spite of the fact that, as Hassanzadeh et al. (2012) quoted, many Iranian applicants do not have any access to higher education in face-to-face classes and E-learning systems can emerge as an alternative; what's more, satisfy and compensate the weakness of traditional learning methods. So, if we influentially make the best use of learning opportunities provided by computer-mediated and internet-enabled platforms such as e-learning systems, a remarkable result will expect youth and knowledge seekers.

Past studies have used information technology adoption theories such as Technology Acceptance codel (TAM), Innovation Diffusion Theory (IDT) and the Unified Theory of Acceptance and Use of Technology (UTAUT) and the DeLone & McLean's model to explore e-learning users' behavioral patterns. Some of these studies have usen the barries and the drivers of e-learning adoption into consideration (e.g., Islam, 2014, 2013, 2012; Sumplet al., 2011; Cheptand Tseng, 2012). In this paper it is attempted to introduce an integrated model of TAM and DeLote & McLean's and elementary individual's actual use of e-learning system in Iran. As Li et al. (2012) note, it is essentiated example the relationship between e-learners' experiences, perceptions, and their behavioral intentions to use, because system are is an important indicator of the system's success.

Hassanzadeh et al. (2012), in their attempts to assess e-learning systems of cess in Irana pure ersities, identified technical system quality, educational system quality, content and informatical quality, service quality, user satisfaction, and intention to use, influential towards use of system, system loyalty, and goal achievement. Motaghian et al. (2013), in their attempts to assess the influence of IS-oriented, psychological and because a learning systems in Iran, identified that perceived usefulness, perceived ease of use, and system quality improve instructors' intentions to use web-based learning systems.

However, only a limited number of published works have apted an integrated model of IS success model and TAM to explore e-learning usage drivers and outcomes in the context of developing countries. This research, compared to ceptions of e-learning services on the associa-Hassanzadeh et al. (2012), tries to step forward to inve ne B te the stud on an integrated model of TAM and IS success model and tion of e-learning usage determinants and learning out stud context of e-learning which appear to be the main provides a literature review of recent outstanding relate ە lh. eveloping country in the Middle East, which possesses a large contributions of the paper. This paper is focused in Iran a population of over 75 million individuals, 37 million of whit according to Internetworldstats.com (2012) are internet users, ranking Iran first in the Middle East and earth in Ma. This study attempts to fill a research gap by addressing the effects of quality features of e-learning systems in adding quality, service quality, technical system quality, and content quality, service quality, technical system quality, and content and information quality, accompared with a ceived ease of use and perceived usefulness on students' satisfactions and intentions towards learning out to des such as stual use and perceived learning assistance, besides investigating mediating effect of perceived ease of use on tention through perceived usefulness.

The remainder of the paper is structured as follows: we address literature review in the next section. This is followed by the presentation of the desearch hypotheses, discussion of findings, conclusions, and finally recommendations for future studies.

2. Literature wiew

Owing to complicated, its delated, and multi-faceted nature of IS success, early attempts fell short in defining information system success this problem, a success model was presented by DeLone and McLean (1992) which was later modified to impensate for changing in IS over time. IS success model (DeLone and McLean, 2003) identified six components of IS success a follows: system quality, information quality, and service quality, intention to use/use, user satisfaction, and net benefits. In success model, system use precedes user satisfaction and positive experience with use contributes to the enhancement of satisfaction which sequentially leads to a higher intention to use (Petter et al., 2008). The revised IS success model, as one of the most widely used model for IS success, has so far been frequently adopted to examine e-learning system success.

The Technology Acceptance Model proposed by Davis and Bagozzi (Bagozzi et al., 1992) appears to be the most widely used innovation adoption model. This model has been used in a variety of studies to explore the factors affecting individual's use of new technology (Venkatesh and Davis, 2000). Davis (1989) suggests that the sequential relationship of beliefattitude-intention-behavior in TAM, enables us to predict the use of new technologies by users. In fact, TAM is an adaptation of TRA in regard to IS which notes that perceived usefulness and perceived ease of use determine an individual's attitudes towards their intention to use an innovation with the intention serving as a mediator to the actual use of the system (Mohammadi, 2015). Perceived usefulness is also considered to be affected directly by perceived ease of use (Mohammadi, 2014). Table 1 presents the most related and outstanding studies in the area of e-learning usage.

Download English Version:

https://daneshyari.com/en/article/466981

Download Persian Version:

https://daneshyari.com/article/466981

<u>Daneshyari.com</u>