Impact of Knowledge Sharing Adoption on Universities’ Virtual Learning Communities

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Abstract

In new age, knowledge has become a significant source. Knowledge sharing is a substantial component of success in any organisation. In various organisations, knowledge sharing adoption is lacking, especially among academic staff working in Saudi universities. This paper investigates collectivism impact on knowledge-sharing factors among academics in Saudi e-learning communities. A conceptual model that will affect the knowledge sharing behaviour within the e-learning community in Saudi universities is proposed. Hypotheses have been accordingly developed. Data was collected in different Saudi public universities. Partial Least Square approach has been applied to analyse the data. The findings of this study provide key factors affecting the process of knowledge-sharing adoption between academic staff within the virtual learning communities in Saudi universities.

1. Introduction

Knowledge Management or “KM” is a new research area within the Arab countries and specifically in Saudi Arabia. Because Saudi Arabia has given great priority to change its society to knowledge-based-economy and knowledge-based-society, in recent times, Saudi Arabia has started to build multiple knowledge centres keeping in mind the end goal to broaden their economy resources from the natural resources productions only reliance to the knowledge-based-economy [57].

With regards to this study, the Saudi Ministry of Education has launched the national “LOR” project known as Learning Objects Repository "Maknaz" that aims to serve strategic arrangements towards the enhancements in knowledge growth and learning resources. In any case, there is a need to populate the Saudi national “LOR” "Maknaz" with the reusable learning electronic materials and digitalized contents [7] referred from [4].

There is no doubt that the E-learning communities do not have a coordinated knowledge management system that prompts learning contents creation, while the knowledge management practices and then procedures in an internet learning approach. Moreover, knowledge management strategies in e-learning offer Saudi e-learning communities with knowledge contents producing, reusing, sharing and filtering. Hence, "Maknaz" repository contents will be viably populated when knowledge sharing practices are embraced in Saudi e-learning environment.

The e-learning communities refer to the educational environments, which addresses learning needs of its individuals through PC-mediated correspondence. It is also referred to the “computer-supported knowledge-building communities” [55]. Idea of learning communities depends on the reflection that learning and knowledge are part of communities that share the values, beliefs and methods for doing things [19]. In this admiration, the knowledge is hard to isolate from practice; on the other way, the practice is inseparable from learning communities in which this practice occurs.

In the light of these reasons, universities in Saudi Arabia have begun to thoroughly consider the future of e-learning in their institutions. Research by [13] has proposed that with the new information innovations accessible, future of universities is in creating knowledge procedures and developing their knowledge production possibilities. As expressed in [31] there has been the rhetoric of utilizing e-learning to bolster the knowledge based-economy by proposing more extensive and diverse sorts of access for learning. As indicated by [34], the knowledge sharing is the primary...
part of the success in most organisations. Specifically, the academic organisations performance may not be capable and up to the market expectations because of their knowledge sharing absence. Recent research has demonstrated the key components that impact knowledge sharing reception in different organizational settings cited in [37], [54], [21], and [29]. Same as other organisations, universities as knowledge-based bodies have a tendency to depend on more on the sharing of knowledge. Nevertheless, a little research has explored the knowledge sharing adoption by the academic staff in academic institutions, particularly in Saudi universities e-learning communities context [34], [4, 5].

1.1. Research problem

This research paper investigates the different factors that influence the adoption of knowledge sharing activities in Saudi e-learning communities. The research attempts to address the following research question: (1) what are the factors that influence the adoption of knowledge sharing among academic staff in e-learning communities in Saudi universities? (2) What is the effect of collectivism on knowledge sharing factors towards staff attitude of knowledge sharing in e-learning communities in Saudi universities?

2. Literature review

A research explored that knowledge originates inside people or social frameworks (gatherings of people) [6]. Some recent researchers have grouped the knowledge management into organizational and individual dimensions [23]. The most frequent studied knowledge management organizational dimensions are top management support and leadership, information technology infrastructure, rewards and incentives [65], [9]. Other than the organizational dimensions, the most frequently discussed factors of individual dimensions are people self-motivation, and interpersonal trust [16], [24]. Literature shows that accessibility to a few distinctive knowledge management factors and the abundance of these factors impact the adequacy of the knowledge sharing behavior and attitude. For-instance, it is explored in [66] that a portion of the common utilized factors are self-motivation, and trust as discussed earlier. Various other factors that influence the knowledge sharing in organisations include the extrinsic motivational rewards, internal environment of the organisation, and the support from top management.

2.1. Knowledge management organisational factors

The literature review of this research has been done to discover the knowledge management organisational factors influencing the knowledge-sharing adoption and how the collectivism culture can influence these factors. It includes the organizational rewards, the knowledge sharing process, leadership support, IT infrastructure, behavioral intention and attitude, and subjective norms and collectivism culture. These factors are illustrated as:

Leadership refers to top management functions to make the knowledge management activities initiatives [30]. There is no doubt that leadership support has a key role in any knowledge management adoption activity in organisations [30], [26]. Various studies have affirmed that adoption of sharing staff experiences or practicing sharing their knowledge is essentially impacted by the level of top leadership reception for the same activities [43], [30], [49]. As cited in [65], the leaders’ roles are imperative in boosting knowledge management conduct within their organisation. This implies that staff will probably take after their leaders when they urge them to share the knowledge.

Knowledge-sharing processes allude to the procedures of collecting and donating knowledge [49]. The Knowledge donation signifies the workers activities to disseminate their intellectual property in an organisation while knowledge collection refers to the representatives’ activity requesting knowledge from each other keeping in mind the end goal to build the intellectual capital [49]. Knowledge sharing activity is a key process among other knowledge sharing processes including knowledge creation, exchange, dissemination and acquisition [30]. In various researches, the knowledge sharing has been portrayed as the stage that exists between “knowledge creation and information use of (KM) exercises [52], [1], [59]. The effective knowledge sharing processes in any organisation will facilitate the procedures to socially share knowledge between staff in order to easily generate knowledge contents that improves the creation of organizational knowledge growth and its intellectual capital [47].

Moving forward there is another factor “Reward system” that refers to incentives for the knowledge sharing endeavors [62]. The organizational rewards can be utilized to motivate individuals to arrange endeavors towards accomplishing organisational targets. Various researchers have contended that a reward energizes the workers; representatives like to play out their employment well, when they see rewards on successful accomplishment of task or activity [20], [33]. Thus,
one of the imperative factors is to set up the right motivation, reward or motivational encouragements to urge individuals to apply and share knowledge. Offering motivating rewards to workers empower and fortify the positive conduct and culture required for successful knowledge sharing [39]. Research led by [34] in Malaysian university and its outcomes demonstrated that the rewards have a positive impact on the state of mind in the knowledge sharing contexts in terms of academics.

IT infrastructure refers to such technologies that are supporting communication among staff to help in the decision-making procedures. Information Technology is an empowering factor in the successful knowledge sharing framework. It has a crucial part in the knowledge sharing practice as it raises the level of knowledge sharing adoption. Moreover, IT is emphatically connected with the knowledge creation in different ways varies from knowledge flow and sharing to storing. In the light of infrastructure offered by IT, knowledge management platforms can be largely embraced to capture, create, deliver, and share boundless volume of knowledge contents within various organizations.

2.2. Knowledge management individual factors

In terms of individual dimensions, most frequently discussed factors are self-motivation and trust [16], [24]. Moreover, Knowledge-sharing is a key part of KM since it supports depository codification of accessible information in an organisation. Individual’s interpersonal trust and self-motivation factors got solid emphasis from various researchers in affecting the achievement of knowledge sharing [3]. Organization managers consider a social norm that influences staff’s knowledge sharing behaviour, and model their practice by influencing staff to imitate. In literature, various distinctive KM factors can impact the adequacy of knowledge sharing behavior and attitude. Some of the usually found factors are self-motivation and trust [66]. Research [30] studied six KM success factors that interface with each other, as opposed to an irregular accumulation of irrelevant factors.

Sharing knowledge successfully requires the top management support and positive social collaboration and trust among the individuals of company groups [36]. There should be an atmosphere of trust within the organization. It is a psychological feeling that if there is trust, there will be sense of security and performance of employees will be better; keeping in mind that the end goal that organisations is to build up an environment of trust where the members can willingly have the eagerness to share their knowledge and to work for the advantage of the whole community [15].

Another concept which is widely used in KM literature in connection to self-motivation is the 'self- efficacy'. Here the Self-efficacy alludes to an individual's confidence in his/her own abilities. Also, it implies the amount of trust the members have in their own capacity to get success. The more the self-motivation a person has the more he will perform and the more he will share knowledge. So, a positive social collaboration of company members and administration support are important to share knowledge successfully.

2.3. Culture

Culture is defined in [67] as “the collective programming of the mind which distinguishes the members of one group or category of people from another”. Hofstede’s cultural dimensions show Saudi Arabia on individualism-collectivism (IDV) with an index score of 20, which means a high collectivistic society [68]. Cultural factors have been widely studied in information system research [68], [69], [71] and [72].

2.4. Subjective norms

The subjective norm is explored by [2] as the degree of the individual's observation that he or she can have, on whether individuals who are important to him or her consider a particular behaviour to be performed or not. It is the extent to which an individual considers the influence of others on that person to adopt a new technology or to perform a specific task [63]. Various researchers have discovered positive connections between the subjective norms and individual's attitude towards the behavioural intention to adopt a new system in an organisation [50]. Subjective norm is considered as a social related pressure on an individual to perform particular behavior under internal social consideration [64].

2.5. Attitude and behavioural intention

Attitude is negative or positive feeling that an individual has to keep in mind the end goal to complete a particular behavior [2]. Researchers have confirmed that the extent of intensity in people’s attitude can affect the degree of occurrence for the behavioral intention. It is described as "physical tendency that is communicated by assessing a specific factor with some level of disfavor or favor [35]. Attitude is indeed a main variable for our study as it is a predetermining variable affecting performing any certain behavior with considering the subjective norms affecting the behavioural intention as well. It is contended in [46] that attitude of teachers' towards tolerating and
utilizing technology is a key factor that decides the successful acknowledgment and utilization of IT framework among instructors. As indicated by [63], the attitude of teachers' is an important factor towards achievement of any activity to receive any innovation or framework in educational field. Subsequently, as attitude of instructors' significantly impacts the way toward deciding the utilization of any IT framework, it is needed to research their attitude towards embracing the e-learning framework for utilizing it for knowledge sharing practices among academic staff in the e-learning communities in several Saudi educational institutions. The researcher defines the behavioral intention as the individual's perceived likelihood to engage in a given behavior [28]. Scholars argue that individual thoughts, beliefs beside his attitude are the co-determinants of any behavioral intention towards adopting new technology or system [25].

3. Theoretical background and hypotheses development

This research is based on theoretical background and hypotheses development to investigate the factors of knowledge sharing adoption in e-learning communities in Saudi universities, and proposes a model that will influence the process of the knowledge sharing inside the e-learning communities through the application of KM practices. In this way, the literature review on wide theoretical models for organizational and individuals KM factors and attitude towards behavioral intention was carried out in this study. These theories include the Theory of Reasoned Action (TRA) cited in [28], Theory of Planned Behavior (TPB) cited in [2], [28] and the Unified Theory of Acceptance and Use of Technology (UTAUT) model cited in [64]. With regards to predicting human behavior, Theory of Planned Behavior (TPB) and the Theory of Reasoned Action (TRA) are generally examined. Hypotheses propose that a people behaviour is anticipated by his or her behavioral intention, which is affected by his or her attitude towards a certain behavior, among different involving factors. TRA concentrates on foreseeing behavioral intention and actual behaviour. It depends on behavioral thoughts and beliefs and subjective norms as cited in [60], [44] and [14]. With regards to present research, authors have utilized TRA to foresee the actual use of knowledge sharing adoption in Saudi e-learning communities as being affected by the participants' behavioral intention goal, which thus relies on their subjective norms and attitude [12], [60].

Moreover, recent researches expressed that knowledge generates inside communities of people and have characterized KM into the organizational and individual dimensions. Conducted literature on KM with considering the Saudi context has revealed different factors including organizational factors: (motivational rewards, the knowledge sharing process, leadership support, IT infrastructure); individual factors including (trust and self-motivation) as well as behavioral intention, attitude and subjective norms as illustrated in [8], [10], [32], [45]. In addition to these factors, the collectivism factor was embraced from Hofstede's (1980) since it is very relevant to the Saudi society. Figure 1 shows the research model.

3.1. Hypotheses

Knowledge management organizational factors

In this case, the researchers have affirmed that leadership has a solid association with attitude of their representative. For instance, it has been highlighted that the leaders are imperative in sharing information and the staff are affected by the level of top administration engagement in knowledge sharing [11], [49], and [65]. This implies the leader’s part in empowering workers for new practices which has an impact on the staff attitude towards receiving the practice, and this will influence representatives to have an inspirational disposition towards the knowledge sharing. Literature, likewise recommends that the rewards are successful factors which will make beneficial outcome on worker attitude about sharing the knowledge [33], [17]. What's more, [34] explored that rewards have a positive impact on attitude in the knowledge sharing in term of academics. The compelling utilization of KM is regularly taking into account the utilization of (IT) frameworks. Staff can share the knowledge by an Information Technology if they have been familiar with using the system in the
right way as it was developed for. With our research purposed, following hypotheses are developed:

Hypothesis 1: Collectivism will moderate the relationship between Leadership Support and attitude toward knowledge sharing such that the relationship is strong for academics in Saudi universities’ e-learning communities.

Hypothesis 2: Collectivism will moderate the relationship between Knowledge Sharing Process and attitude toward knowledge sharing such that the relationship is strong for academics in Saudi universities’ e-learning communities.

Hypothesis 3: Collectivism will moderate the relationship between Organisational Reward and attitude toward knowledge sharing such that the relationship is strong for academics in Saudi universities’ e-learning communities.

Hypothesis 4: Collectivism will moderate the relationship between IT Infrastructure and attitude toward knowledge sharing such that the relationship is strong for academics in Saudi universities’ e-learning communities.

Hypothesis 5: Collectivism will moderate the relationship between Interpersonal Trust and attitude toward knowledge sharing such that the relationship is strong for academics in Saudi universities’ e-learning communities.

Hypothesis 6: Collectivism will moderate the relationship between People Self-Motivation and attitude toward knowledge sharing such that the relationship is strong for academics in Saudi universities’ e-learning communities.

Knowledge management individual factors

One of the most important individual factor in terms of KM is “Trust” that prompts expanded knowledge sharing and upgrades the probability that the knowledge will be comprehended and then applied. Trust is specifically limited to the level of psychological security in knowledge sharing – the more trust amongst company members, the more sharing of knowledge [41]. There is a positive relationship amongst knowledge sharing and trust [3].

In KM, without the activity of members and the adjusting of the gathering and individual objectives, powerful knowledge sharing can't be guaranteed. This conviction is integral to how individuals think and carry on. Keeping in mind the end goal to accomplish an objective, a person needs to trust that it can be conceivable and he/she can achieve it [48]. Notwithstanding, to share the knowledge, it is insufficient that members have an intrinsic desire to share the knowledge, knowledge maker should likewise see that the knowledge can be effectively applied. The more self-motivation or efficacy individuals have, the more certainty they will have on their own insight and their ability. Intrinsic belief and motivation, prompts expanded profitability and supports the members of the group to share the more knowledge and therefore these hypotheses are developed:

Hypothesis 5: Collectivism will moderate the relationship between Interpersonal Trust and attitude toward knowledge sharing such that the relationship is strong for academics in Saudi universities’ e-learning communities.

Subjective norms

The factor “Subjective norm” reflects the person impression of whether a certain behaviour is acknowledged by his circle of impact or not. A recent research has recognized that the subjective norm has a great impact on individual's behavior [2], [64]. In this way, the following hypothesis is developed.

Hypothesis 7: Subjective Norm (SN) of educators has a significant positive effect on their behavioural intention (BI) toward knowledge sharing adoption in Saudi universities’ e-learning communities.

Attitude and behavioural intention

As indicated by [28], the attitude affects behavioral intention. The solid relationship amongst the behavior and attitude has gotten impressive empirical support as cited in [51], [18], and [38]. Literature demonstrates that individual’s attitude with respect to knowledge sharing reflects their willingness to be required in the knowledge sharing adoption. Accordingly, the following hypotheses are proposed:

Hypothesis 8: Academics’ Attitude (ATT) towards knowledge sharing adoption in Saudi universities’ e-learning communities has a significant positive effect on the behavioural intention (BI) toward knowledge sharing practices in e-learning communities in Saudi Arabia.

Hypothesis 9: Academics’ Behavioural Intention (BI) towards knowledge sharing adoption in Saudi universities’ e-learning communities has a significant positive effect on the actual adoption of knowledge sharing practices in e-learning communities in Saudi Arabia.

4. Methodology

This study has used quantitative method to collect numerical data from respondents in Saudi universities. The survey instrument is used to collect data. Data has been collected in major public universities in Saudi Arabia. This research adopts previously validated instruments in order to ensure the survey items are adequate. The survey has been developed in English. A translated Arabic version has been included in the survey. The five point Likert scale (1=strongly
agree to 5=strongly agree) is used as it is one of the most commonly used techniques of scaling responses in a survey design. Survey was sent to 500 participants and 200 participated in the survey. After removing incomplete responses, a total of 160 responses have been used for data analysis. The research model has been tested using Partial Least Squares- Structural Equation Modelling (PLS-SEM) statistical technique using SmartPLS version 3 [53]. Partial Least Squares approach is used to test theoretical models and to understand the simultaneous modelling of relationships among various independent and dependent factors.

4.1. Data analysis

Descriptive analysis shows that 60% of the participants are male and 40% are female. 55% are in the age bracket of 26-35 years, 30% participants are 36-45 years and 15% are above 45 years. 51% of the respondents hold Master degree, followed by bachelor’s degree with 35% and 14% hold doctoral degree. 45% of participants have more than 5 years of work experience, followed by 30% between 3-5 years; 25% of the participants have work experience of 1-3 years.

The data has been analysed using Partial Least Squares (PLS) approach, which is considered to be suitable for this study. PLS allows the investigators to simultaneously evaluate structural path coefficients and measurement model parameters. It allows formative and reflective variables to be tested together [22]. In our research model all factors except subjective norms are modelled as reflective indicators because they are viewed as effects of latent variables. The subjective norms is formative in nature [27], which is not interchangeable because it is a multidimensional variable, which means change in one indicator does not necessarily denote change in other indicator.

4.1.1. Reliability and validity assessment

The measurement model is assessed by internal consistency, convergent validity and discriminant validity. Convergent and discriminant validity are calculated using items loadings were at least 0.70 and the square root of the average variance extracted (AVE) from its factor indicators, which was at least 0.70 and was greater than that factor correlation with other factors. Subjective norm is a formative construct that cannot be examined in this procedure. However, the validity of subjective norm has been examined using outer weights that are significant at p value < 0.05. In addition for the reliability of formative indicator, the variance inflation factor (VIF) value is less than 5, which means there is no multicollinearity.

Table 1 shows the average variance extracted (AVE), Cronbach’s reliability, composite reliability and the AVE of all constructs exceeds the recommended value of 0.70. An independent t-test was conducted to compare the culture (collectivism) differences which was significant at p<0.05.

Table 1. Reliability, correlation, and discriminant validity of constructs.

4.1.2. Structural model testing

The structural model testing is conducted to test the proposed hypotheses. The significance of the paths between construct is analysed by t-test calculated with the bootstrapping technique at a 5 percent significance level. Moreover, the moderating effects were performed using the product indicator approach which refers to the product of each item of the independent variable with each item of the moderator variable [73]. The coefficients of the causal relationships between factors are determined by the significance of the path coefficients and the (R²) variance of the dependent construct. Table 2 shows the path co-efficient mean, standard deviation and t-statistics and p-value for each of the proposed hypotheses. The recommended t-values are t >1.96 at p < 0.05, t > 2.576 at p < 0.01, t > 3.29 at p < 0.001 for two-tailed tests. Figure 2 shows the path testing.
Table 2. Hypotheses testing.

<table>
<thead>
<tr>
<th>Path</th>
<th>Path coefficient mean</th>
<th>SD</th>
<th>T statistics</th>
<th>P value</th>
<th>Supported?</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>0.22</td>
<td>0.01</td>
<td>1.98</td>
<td>0.002*</td>
<td>Yes</td>
</tr>
<tr>
<td>H2</td>
<td>0.29</td>
<td>0.02</td>
<td>2.65</td>
<td>0.000***</td>
<td>Yes</td>
</tr>
<tr>
<td>H3</td>
<td>0.10</td>
<td>0.03</td>
<td>1.10</td>
<td>0.25</td>
<td>No</td>
</tr>
<tr>
<td>H4</td>
<td>0.24</td>
<td>0.04</td>
<td>1.97</td>
<td>0.001*</td>
<td>Yes</td>
</tr>
<tr>
<td>H5</td>
<td>0.21</td>
<td>0.02</td>
<td>2.29</td>
<td>0.000***</td>
<td>Yes</td>
</tr>
<tr>
<td>H6</td>
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<td>1.05</td>
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<tr>
<td>H7</td>
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<td>0.03</td>
<td>1.99</td>
<td>0.002*</td>
<td>Yes</td>
</tr>
<tr>
<td>H8</td>
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<td>0.04</td>
<td>3.90</td>
<td>0.000***</td>
<td>Yes</td>
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<tr>
<td>H9</td>
<td>0.42</td>
<td>0.07</td>
<td>2.10</td>
<td>0.000***</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Note:
- *Significant at 0.05 level, **Significant at 0.01 level, ***Significant at 0.001 level

Figure 2. Path testing

As shown in the Figure 2, the results confirm the relationship in significance for all hypotheses at p<0.05, except H3 where the relationship organisation reward and attitude is insignificant. R²=0.37 indicates 37 percent variance in attitude. For the behavioural intention R²=0.41 indicates 41 percent variance. R²=0.25 indicates 25 percent variance in actual knowledge sharing adoption in Saudi e-learning communities.

5. Findings and discussion

According to the path testing as shown in Figure 2, the order of significance among the knowledge management organisational factors that have a significant effect is “leadership support”, followed by “IT infrastructure”, “knowledge sharing process” and “organisational reward”. Statistically significant support was found for collectivism effects on the relationship between ‘leadership’ and staff attitude towards knowledge sharing adoption in Saudi e-learning communities. It can be interpreted that academic staff share information and insights throughout the organization and have considerable influenced by the degree of top management adoption, which in turn from collectivism culture values. This is consistent with [65], [30]. The organisation promotes a knowledge sharing culture that focuses on participation. Information technology infrastructure plays a successful role in e-learning adoption. The results also shows significant collectivism effects on the relationship between ‘information technology infrastructure’ and staff attitude towards knowledge sharing adoption in Saudi e-learning communities. In addition, giving incentives to employees helps to stimulate and reinforce the positive attitude. However, our results show the insignificant collectivism effect on “organisational reward” and staff attitude. This could be attributed to the fact that the data had been collected in Saudi Arabia and all the participants in the survey are Muslims. As per Islamic belief, rewards are encouraged by religion which is consistent with Prophet Mohammed’s recommendation as reported by Ibn Mas’ud that The Prophet (PBUH) said: "Envy is permitted only in two cases: a man whom Allah gives wealth, and he disposes of it rightfully, and a man to whom Allah gives knowledge which he applies and teaches it". Hence participants are not accepting “organisational reward” as an important organisational factor in knowledge sharing. In addition, the reason behind the significance of “knowledge sharing process” is that sharing more accurate data and timely information with others is one of the biggest advantages towards e-learning communities. The results also confirm that individual attitude is the key factor of behavioural intention to adopt actual knowledge sharing adoption in Saudi e-learning communities. This is in line with related studies [40], [61].

The findings show the order of significance among knowledge-sharing individual factors is ‘interpersonal trust’ followed by ‘people self-motivation’. This indicates ‘interpersonal trust’ is more likely to be associated with staff attitude towards knowledge-sharing adoption. Saudi Arabia is a high collectivistic society as found in [67] and thus people form strong relationships where everybody takes responsibility for fellow members of their group. As a result, people prefer to communicate and establish interpersonal trust with known bodies. This shows knowledge-sharing is expected to be more in e-learning communities where there is a culture of trust amongst the staff members. Also, when the staff motivate oneself, they are likely to contact more and share knowledge, which leads to the generation of more knowledge. The results are consistent with [41,42] and [3].
The results also confirm that staff attitude and subjective norm is the key factor of behavioral intention to adopt actual knowledge-sharing adoption in Saudi e-learning communities. In the context of the current study, the actual use of knowledge-sharing adoption in Saudi e-learning communities is influenced by the staff behavioural usage intention, which in turn depends on the users’ attitude and the subjective norms. The results are consistent with [58], [41] and [56].

6. Conclusion and implication

The study has fulfilled its main aim that was to examine the key factors that influence the adoption of knowledge sharing activities in Saudi universities’ e-learning communities. Data was collected from various public universities in Saudi Arabia and total of 160 responses were used for analyses. Partial least square approach was used to test the hypotheses of the study. The results indicated that among knowledge management organisational factors, ‘leadership support’, ‘knowledge sharing process’ and ‘IT infrastructure’ is positively and significantly related to staff knowledge sharing attitude. However ‘organization rewards’ did not significantly affect attitude. In addition, among knowledge management individual factors, ‘interpersonal trust’ is positively supported, while ‘people self-motivation’ doesn’t have a positive effect on staff knowledge sharing attitude. Among other factors, subjective norm and attitude significantly impact ‘behavioural intention’ toward knowledge sharing adoption in the Saudi universities’ e-learning communities.

Concerning implications from a theoretical perspective, this study contributes to the literature by presenting a proposed knowledge sharing adoption model in the academic context towards the e-learning communities. Practically, therefore, in an effort to make academic staff to adopt knowledge sharing practices, Saudi universities should implement supportive knowledge management practices to build actual knowledge sharing practices in the organization. As a result, e-learning stakeholders will gain advantages from knowledge management practices to share what they create and capture which will maximize the community’s knowledge resulting in more production for the open educational resources and organization goals achievement as well [5].

6.1. Limitation and future research

Like any research this study has limitations. First, the data collection was restricted to academic staff in public universities in Saudi Arabia, which may affect the generalization of the study. Second, this study did not cover all aspects of knowledge sharing adoption. Third, this study did not consider the type of knowledge sharing. Thus, this is an area for future research to consider.

10. References


