The Study of Consequences of Acceptance Technology When It Is Mandatory: A Conceptual Framework

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Abstract

While appearance of the technology can help employees and organizations achieve the optimized performance, it may have some negative consequences if it is not accepted by employees. Previous studies found some unintended consequences due to system rejection or acceptance by employees including job satisfaction and turnover intention. This paper finds other consequences including psychological contract, organizational commitment and turnover intention and then provides a conceptual framework.

Keywords: IT acceptance, TAM, psychological contract, organizational commitment, turnover intention

1. Introduction

Although development in technology has been used to help business processes, it may have some negative consequence if it is not accepted. Joshi and Lauer (1998) claimed that Information Technology or Systems (IT/IS) implementation may impact users’ work environment in many different ways. Some of the impacts may be unfavorable for users, leading to negative consequences such as reduced job satisfaction, increased stress, and reduced commitment. It may also lead to sabotaging computer equipment, being absent or late to work, bad-mouthing the system, not using the new system and continuing to use the old system, and tampering with the data (Adams et al., 2004; Rivard & Lapointe, 2012).

Previous studies also provide some evidence of the consequences of using information technology, individual’s attitude and their behavior. For example Hussain and his colleagues (Chandio et al., 2013) examined the effect of perceived ease of use and perceived usefulness on behavioral intention. They reported significantly positive effect of perceived ease of use and perceived usefulness on behavioral intention. Chen (2010) also investigated the consequence of e-learning system use including overall job outcomes. However, these authors have considered only positive consequences of information system implementation. Meanwhile, they have failed to consider acceptance of information system and employees “attitude toward the organization” and job. Chen (2008) evaluated job satisfaction among information system personnel. He attempted to find the relationship between job characteristics of IS and job satisfaction. He reported a mutual relationship between them. However, he did not consider system characteristics and its acceptance by employees.

Among the available studies it seems that scholars have failed to provide comprehensive as well as theoretical evidence to be able to predict desirable and undesirable organizational behaviors of employees resulting from the acceptance of information technology. Among these studies, however, Maier and his colleagues (Maier et al., 2013) have considered information system acceptance and negative consequence of information system rejection although they also haven’t considered psychological contract which is an antecedent for job satisfaction (e.g., Xiao & Yan, 2010) in their study. They also have ignored investigating organizational commitment in their model which is an important variable for turnover intention (e.g., Mosadeghrad et al., 2008). Despite these related findings, no available studies have explored the effect of attitude toward using information system due to information system acceptance on turnover intention directly and through psychological contract and organizational commitment. In order to fill this gap this study attempts to provide a framework by considering the impact of technology acceptance on turnover intention directly as well as through psychological contract and organizational commitment.
2. Technology Acceptance Model

The Technology Acceptance Model (TAM) is a core theoretical model in the information technology field that explains and predicts technology use (Cornell et al., 2011). The model suggests when individuals are voluntarily or involuntarily confronted with a new technology, a number of elements affect their choice about utilizing it. The goal of TAM is to predict information technology acceptance and identify design problems before users have experience with a system (Jahankhani et al., 2010). TAM predicts user acceptance of any technology determined by two factors: perceived ease of use and perceived usefulness. Consistent with technology acceptance model, perceived usefulness and perceived ease of use have a significant impact on a user’s attitude toward using the system. TAM explains that individuals’ perceptions are based on perceived usefulness (PU) and perceived ease of use (PEOU) which in turn, influences users’ intention and usage behavior towards a particular information technology (Davis, 1989; Davis et al., 1989). Previous studies applying the TAM and its core constructs, PU and PEOU, proved its validity in predicting user acceptance behavior across technologies and contextual settings (Carayannis, 2013; Piaggesi et al., 2011).

3. Psychological Contract

Psychological contract is a predictor of turnover intention (Bal & Kooij, 2011). Psychological contract refers to people’s mental beliefs and expectation in relationship to their mental obligation in a contract relation between a person and another person such as employer (Leimeister, 2010). The psychological contract is generally defined in the academic literature as the implicit and explicit promises two parties make to one another (Wellin, 2012). The contract is termed psychological because it reflects each party’s perceptions of the relationship and promises involved. A distinguishing feature between psychological contracts and legal contracts is that psychological contracts can be implicit (Cowling & Mailer, 2013). Psychological contracts are violated more regularly during change processes, because perceived organizational obligations are fulfilled to a lesser extent during organizational transformations such as adoption of information technology (Cowling & Mailer, 2013).

4. Turnover Intention

Tett and Meyer (1993) referred to turnover intentions as a conscious and deliberate willfulness to leave the organization. Turnover intention is described as a worker’s plan of intent to leave the current work and looking into the future to find another job (Grigg, 2009). Intentions are the largest instantaneous determining factors of reality behavior. According to Price (1977) turnover can be separated in two components including voluntary and involuntary.

5. Organizational Commitment

Organizational commitment has been studied extensively by several researchers, and has been the subject of numerous critical reviews in recent years (Grigg, 2009; Locke, 2011; Pitt, 2009, Anvari et al., 2014). Organizational commitment has appeared as a centralized concept in the research of work attitudes and behavior (Meyer et al., 2002). This is due in large part to the demonstrated relations between organizational commitment and two variables of considerable significance to the study of vocational behavior: intentions to leave and actual turnover (Allen & Meyer, 1996).

6. A Conceptual Model Development

The researches based on the Technology Acceptance Model (TAM & Davis, 1989; Davis et al., 1989), provide empirical evidence that an individual’s beliefs about an information system and attitude toward using it influence the intent to use the system and consequently the respective usage behavior (Davis, 1989). These relationships have been evaluated and discussed extensively in several studies (Williams et al., 2009). However, it is claimed that this does not hold true for predicting employees’ usage behavior in organizations, especially when use is mandatory (Brown et al., 2002; Teo, 2011). In addition, the investigation of “outcomes in technology adoption research is very limited” (Topi & Tucker, 2014; Venkatesh et al., 2007, p. 277). In particular, the consequences of employees’ negative attitudes toward an information system remain unexplored. This is more precisely stated by Brown et al. (2002), who asked “if an employee’s attitude is not related to his/her intention to use technology, what does it influence?” (p. 293) and subsequently suggest that “attitudes can have a significant influence on an individual’s perception of the work environment and organization” (p. 291).

6.1 The Relationship between ATU and PC

As an organization introduces an information technology, each employee who works with the technology evaluates the technology, for example, in terms of its usefulness and ease of use (Davis et al., 1989). If employees do not evaluate the system as useful and easy to use, especially when they do not have the necessary skill to operate it or even if they don’t know full potential of that information technology and are not even aware
of all of its possibilities, they may evaluate the system rather negatively.

There are many reasons why employees may wish to breach the psychological contract during information technology implementation. For example, employees with poor communication skills may feel that an information technology is being implemented to reduce costs rather than to facilitate work (Stone & Lukaszewski, 2009; Anvari & Atiyaye, 2014; Anvari et al., 2014). This assumption is in line with Ferratt et al (2005), who indicate that employees prefer employer organizations that support human capital over task- and profit-oriented organizations. However perceived organizational support as a mediator of the relations between individual differences and psychological contract breach shows that it has an effect on psychological contract (Suazo & Turnley, 2010). Information technology also may create additional work and stress if it is difficult to use if too many clicks are required or if it requires too much time. Thus the employees may feel that they have additional work to do and it is not fair that they are taken away from what they see as their main job responsibility. As a result, it may affect employee perceptions of the organization and consequently, they may perceive a breach of the psychological contract as fairness forms psychological contract (Noblet et al., 2009).

Moreover, recent research demonstrates that employees are critical of having to wait while opening attachments and manual data entry of incoming paper-based applications are viewed as a disruption of their daily work routines (Maier et al., 2013; Anvari et al., 2013). In the same way, all mentioned reasons can change employee perceptions toward their organization as employees feel that they are not supported by the organization as the organization has provided such a system. However, employees’ perceived organizational support can affect psychological contract.

6.2 The Relationship between PC and TI

Behavior and attitudes are influenced quite significantly by an individual’s perception of his obligations and perceptions of how well the other party’s obligations have been fulfilled (Morrison & Robinson, 2004). The lack of fulfillment of aspects of the psychological contract will lead to a breach of the contract, with a change in attitudes and of behavior as a consequence (Morrison & Robinson, 2004; Rousseau, 1989). Rousseau (1989) suggests that a breach of the psychological contract may lead to strong emotional reactions such as anger, resentment and a sense of injustice. Regarding behavior, Robinson and Rousseau (2000) conducted a research study in which they found that breach of psychological contract may lead to an increase in employee turnover. As such, the notion of a psychological contract provides a framework within which behavior and employee attitudes, such as the intention to leave an organization, can be researched and interpreted (Hancer & George, 2003).

6.3 The Relationship between PC and OC

Researchers have described a psychological contract as having implicit expectations and which usually occur when an individual perceives that their contribution will be reciprocated in the future. Furthermore, (Schein, 1980) took a similar approach and defined a psychological contract as a set of unwritten expectations and obligations which were significant determinants of behavior at the individual and organizational levels. The investigation into the relationship between employee-employer suggests that employees who maintain a positive psychological contract in their organization have positive outcomes for themselves and their employers. Indeed, a high-quality exchange relationship is positively related to employees’ organizational commitment levels, and they are likely to reciprocate the feeling to an even greater degree (Farnsdale et al., 2011). As a result, social exchange theory suggests that psychological contracts have a direct relationship with organizational commitment. This relationship is supported by many researches (Ali et al., 2010; Behery et al., 2012; Sturges et al., 2005).

6.4 The Relationship between OC and TI

The best predictors of turnover intention are professional commitment and organizational commitment (Barak et al., 2001). One of the most predominate associations to organizational commitment is its effect on decreased intent to quit. Indeed, several studies of turnover intention have substantiated that it occurs as an outcome of organizational commitment (Carayon et al., 2006).

There are studies that have examined the relationship between organizational commitment and turnover intention. Moreover, they reported a negative relationship between two variables (Parker et al., 2003; Siong et al., 2006). In a meta-analysis of two hundred commitment studies, Mathieu and Zajac (1990) supported the insight of Mowday et al. (1982) that organizational commitment has a negative relationship with turnover intention. Moreover, this study results also show that an employee who is committed to an organization is more likely to stay in his or her job. Similarly, Tett and Meyer (1993) conducted a meta-analysis of one hundred fifty five studies comprised of one hundred seventy eight independent samples; the researchers found that organizational commitment is a predictor of intention to leave.
7. The Conceptual Framework

The independent and dependent variables are developed based on a literature review. By considering technology evaluation, this paper utilizes the Technology Acceptance Model featuring ease of use, perceived usefulness, and attitude toward using the system. Attitude toward using the system can also lead to work-related outcomes, including psychological contract, turnover intention, and organizational commitment. The conceptual framework is shown in Figure 1.

![Conceptual Framework Diagram]

**Figure 1. Conceptual framework**

**References**


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