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Intranet Supported Knowledge Sharing Behavior

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Abstract

While most corporate organizations in Malaysia have implemented intranet or portal, questions regarding users' utilization

behavior for the purpose of knowledge sharing still remain unanswered.

Against this concern, this study seeks to investigate demographic profiles associated with knowledge

sharing behavior in an intranet computing environment in selected Malaysian companies. Using the survey research method, 700 questionnaires were

distributed using the simple random sampling technique yielding to 359 usable responses. The findings suggest that there is a significant difference in terms of knowledge sharing

behavior across demographic profiles. In addition, it was also found that both length of service and internet experience is a significant predictor of knowledge sharing

behavior in an intranet
computing environment.

Keywords knowledge sharing, intranet, Malaysian companies

Introduction

Since its first inception a decade ago, the intranet has achieved major advancement and sophistication. At present,

intranet technologies have significantly mature and they exist in all sizes, shapes, and forms. In fact, more sophisticated terms like intranet portal, enterprise portal,

enterprise information portal or EIP (Shilakes and Tylman, 1998) have been coined to reflect the advancement and complexity of the technology. Hinrichs

(1997) defined intranet as an internal IS based on internet technology, web services, TCP/IP and HTTP communication protocols, and HTML publishing that permits organization to

define itself as a whole entity, a group, a family, where everyone knows their roles and everyone is working on the improvement and health of the organization.

Intranet, in its full functionalities can be used as a publishing application, discussion application and interactive application. Within the scope of discussion application,

users can utilize the intranet technology for knowledge sharing purposes. Today, while most corporate organizations in Malaysia are intensely implementing

intranet or portal,
questions regarding users'
utilization behavior for the
purpose of knowledge
sharing still remain
unanswered. Not much is
really known about the

extent Malaysian users utilize intranet technology for knowledge sharing purposes. Against this background, this study seeks answer the following research questions i.e.

What are the demographic profiles associated with knowledge sharing behavior in an intranet computing environment? In addition, it also attempt to find answers to the

following: (i) Is there any significant difference of knowledge sharing behavior between male and female? (ii) Is there any significant difference of knowledge sharing

behavior among different age group of users? (iii) Is there any significant difference of knowledge sharing behavior between managers and non-managers? (iv) Does length

or service significantly and positively relate to knowledge sharing behavior? and (iv) Does internet experience significantly and positively

relate to knowledge sharing
behavior?

Literature Review

Intranet Background

While the Internet started out from the ARPANET project in the late 1960s,

intranets are the result of the growing number of companies beginning to run TCP/IP on their intra-organizational networks in the mid-1990s (Slevin, 2000). Karlsbjerg and

Damsgaard (2001)
described intranet as “a
shared information space
that supports the sharing of
information among
members of an
organization. The space

comprised a number of technical standards and platforms interconnected in a network within well-defined boundaries of a group of people or computers. All

communication goes through the web-browser using TCP/IP and HTTP protocols. Thus, any application can be part of the intranet as long as the browser is primary client

interface". Intranets are also sometimes referred to as 'glueware' or 'middleware' since they are utilized to interconnect heterogeneous systems through the browser and

associated protocols and applications (Lyntinen et al., 1998).

Looking from the IS perspectives, intranet technologies offer

formidable benefits compared to traditional technologies which tend to only support well-defined tasks (Damgaards and Scheepers, 1999). These advantages include rapid

scalable development
across a range of platforms,
access to legacy systems
and data warehousing
capabilities, and
development on existing
networks with lower

implementation cost
compared to traditional
client server solutions
(Golden and Hughes, 2001).
In addition, the time taken
for intranet
implementation which

includes design,
development and
implementation and end-
user training is relatively
much quicker than
traditional solutions.
Hence, the intranets are

providing organizations with far more flexibility than traditional IS (Golden and Hughes, 2001).

Intranet Usage for Knowledge Sharing

Recognizing the importance of knowledge sharing, many organizations have deployed or exploited the

intranet as part of their knowledge management initiative programs. The literature indicates that there exist diverse studies that specifically address the role of intranet in

facilitating knowledge
sharing (Newell et al., 1999;
Ruppel and Harrington,
2001; Stoddart, 2001;
Holden, 2003; Lichtenstein
et al., 2004; Hall, 2004;
Panteli et al., 2005;

Stenmark, 2005c;
Stenmark, 2005e). Other
studies such as Scott
(1998); Stenmark (1999a);
Damsgaard and Scheepers
(2001); Stenmark (2002);
Sarkar and Bandyopadhyay

(2002); Dingsoyr and
Conradi (2003); and Skok
and Kamanovitch (2005)
not only addressed
primarily the role of the
intranet in supporting
knowledge management

initiatives but also stressed equal emphasis on knowledge sharing.

In order to best describe how the intranet can facilitate knowledge

sharing, Stenmark (2002) and Lichtenstein et al., (2004) developed a model that describes intranet utilization for supporting knowledge management. Stenmark's model, suggests

that the intranet as a knowledge sharing environment is seen from three perspectives: information, awareness and communication. The information perspective

relates that the intranet gives the organizational members access to both structured and unstructured information in the form of databases and documents. Access to

rich and diverse
information is imperative
for knowledge creation.
The awareness perspective
suggests that the intranet is
used to keep users well-
informed and constantly

connected to information
and people in the
organization. Such a
networking practice
promotes community
building and increases the
likelihood for successful

communication and collaboration. The communication perspective enables organizational members to collectively interpret the available information by supporting

various forms of channels for conversation and negotiations. When users engaged in collaborative work with peers that share their objectives and understand their

vocabulary, the common context for knowledge sharing would then exist.

Lichtenstein et al., (2004)
conceptualization of
knowledge sharing

mediated by the intranet exhibits a sharer who chooses to provide knowledge to be published, and provides that knowledge which is then published on the intranet.

A potential receiver will search and find the required knowledge, retrieve it then relate it to his/her existing knowledge. The knowledge is then assimilated before it can be

applied as required. The fact that the knowledge has been retrieved by the receiver, as well as response to that knowledge, is fed back to the sharer, whose future

knowledge-sharing
behavior may change
accordingly.

Individual Characteristics and Knowledge Sharing Behavior

Every individual is subject to his own personal traits and to the environment or

surrounding that he belongs to or is attached with. Theory of Diffusion of Innovation (Rogers, 1995) posited that besides individual beliefs of the innovation characteristics

(i.e. the object or technology being studied)
other factors such as individual characteristics, organizational characteristics and external characteristics are also

influential in molding one's behavior associated with individual adoption behavior. Models such as Technology Acceptance Model (Davis et al., 1989) and Unified Theory of

Acceptance and Use of
Technology or UTAUT
(Venkatesh et al., 2003)
have been consistently
showed by researchers that
individual characteristics,
organizational

characteristics and technology characteristics are predictors or antecedents of technology adoption (*see* Jeyaraj et al., 2006). A large number of studies on the intranet have

attempted to investigate the effects of the individual characteristics, organizational characteristics and technology characteristics on intranet adoption.

However, these studies either done at the firm-level perspective (Al-Gharbi and Atturki, 2001; Eder and Igarria, 2001) or user-level perspective (Horton et al., 2001; Weitzel and

Hallahan, 2003; Chang, 2004) were meant to determine use or non-use and not for knowledge sharing behavior.

Furthermore, in the context of Malaysia, none has ever

attempted to investigate
knowledge sharing
behavior in an intranet
computing environment.

Research Methodology

The conduct of the study involved survey research method. Several companies with high intranet maturity (i.e. the intranet are being

integrated with organizational information systems) were contacted to participate in the survey. However, only four companies were willing to participate in the study.

After a lengthy discussion with the contact person of these companies, it was decided that the respondents of the study should be the executives in the headquarters only. The

rationale being that, compared with the support staffs, the executives are the heavy users of the intranet. Accordingly, 700 questionnaires were administered to these

participating companies using stratified random sampling. After one-month duration, 423 were returned but 359 were found usable. An instrument comprising of

six-item measures adapted from De Vries et al. (2006) was used to gauge knowledge sharing behavior. Data were analyzed using SPSS version 14.0. Non-response

biases were analyzed by comparing early responders and late responders using independent sample t-test. The results revealed that the responses were free

from non-response biases. Factor analysis was then executed on the items measuring knowledge sharing and the findings showed that all items were cleanly loaded into one

single factor. The reliability analysis performed also showed that items measuring knowledge sharing recorded Cronbach alpha value of 0.907 suggesting that the

instrument used in the study was highly reliable.

Findings

Demographic Profile

Table 1 presents the demographic profiles of the research samples. Between

male and female, the former seemed to outnumbered the later with 54.9% as opposed to 45.1%. Age group between 31 and 35 was most dominant and contributed

to 29.5% of the sample. In terms of qualifications, 284 respondents indicated to have gotten first degree while 23 indicated to have obtained Masters. 306 respondents indicated as

holding executives posts while 53 were holding middle management post. The average length of service was 7.62 while intranet experience recorded a mean of 6.92.

Knowledge Sharing Behavior between Gender

Table 2 depicts the
descriptive profile of
knowledge sharing

behavior between male and female. The results showed that the mean score for both gender is around 5, suggesting that there is not much difference for both male and female in terms of

knowledge sharing behavior. To further ascertain this finding, an independent sample t test was performed and the results evidently showed that the p value is 0.616

which is greater than 0.05, hence indicates that there is no significant difference on knowledge sharing between both gender.

Table 1. Demographic Profiles of Respondents

Please see Table 1 in full PDF version.

**Table 2. Descriptive
Profile of Knowledge
Sharing Behavior
between Male and Female**

**Please see Table 2 in full
PDF version.**

Different Age Group of Users

To investigate whether there are significant differences across different age groups in terms of

knowledge sharing behavior, ANOVA test was performed. The results showed that the p value is greater than 0.05, hence, suggesting that there is significant difference on

knowledge sharing among different age group suggesting. Further analysis was performed using Scheffe test and the result is shown in Table 3.

Table 3. Results of Scheefe Test across Age Groups

**Please see Table 3 in full
PDF version.**

Knowledge Sharing Behavior between Managers and Non- managers

Table 4 depicts the
descriptive profile of

knowledge sharing behavior between executive and middle managers. The mean value of knowledge sharing for middle managers seems to be higher as compared to

the executives. However, to further ascertain whether this difference is significant, an independent sample t test was performed. Evidently, the results showed that the p value is

smaller than 0.05, thus,
implying that the difference
is significant.

Table 4. Descriptive Profile of Knowledge Sharing between Executive and Middle Managers

**Please see Table 4 in full
PDF version.**

Length of Service and Knowledge Sharing Behavior

Table 5 and 6 present the results of linear regression between length of service

and knowledge sharing behavior. It was noted that the value of Pearson's $r = 0.318$ while $R^2 = 0.101$, with $F(1,357) = 40.213$ and $p < 0.001$. These figures show that low correlation but

weak relationship subsist
and that length of service
single-handedly explained
10.1% of the variation of
knowledge sharing
behavior.

**Table 5. Summary of
Regression Model
between Length of
Service and Knowledge
Sharing Behavior**

**Please see Table 5 in full
PDF version.**

**Table 6. Coefficient for
Regression Model
between Length of
Service and Knowledge
Sharing Behavior**

**Please see Table 6 in full
PDF version.**

Internet Experience and Knowledge Sharing Behavior

Table 7 and 8 depict the results of linear regression between length of service

and knowledge sharing behavior. It was noted that the value of Pearson's $r = 0.445$ while $R^2 = 0.198$, with $F(1,357) = 87.995$ and $p < 0.001$. These figures show that low correlation but

moderate relationship exist
and that intranet
experience singularly
explained 19.8% of the
variation of knowledge
sharing behavior.

**Table 7. Summary of
Regression Model
between Intranet
Experience and
Knowledge Sharing
Behavior**

**Please see Table 7 in full
PDF version.**

**Table 8. Coefficient for
Regression Model
between Intranet
Experience and
Knowledge Sharing
Behavior**

**Please see Table 8 in full
PDF version.**

Discussion

Utilizing intranet for knowledge-sharing purposes has been vastly discussed both in IS and KM literature. Typically,

knowledge-sharing activities entail two main activities namely; knowledge donating and knowledge collecting. With the availability of the intranet, these two

activities have become more conveniently practiced. Users at any time of the day and at their own will can easily record or donate whatever knowledge that could be

relevant and beneficial to others. On the other hand, users can also freely retrieve or collect knowledge pertinent to their needs from the intranet, thereafter

assimilating them for usage or application. As this study had evidently showed that intranet was utilized for knowledge sharing purposes, findings by earlier studies are

therefore, affirmed
(Stenmark, 2002;
Lichtenstein et al., 2004).

Numerous studies have
consistently shown that
individual characteristics

such as demographic profile and other traits such as job level, length of service and internet experience are predictors of IT or IS usage behavior. While previous studies

have found gender differences in terms of IT usage behavior (Gefen and Straub, 1997; Gardner, 2004) this study has, however, discovered contradicting result. The

possible explanation could be that, unlike previous studies, IT usage behavior in this study was measured in terms of their knowledge sharing via the intranet. Furthermore, the job

nature of these respondents, which are identical irrespective of their gender, could be also another reason.

This study has categorized the age of the respondents into 7 groups. As noted in the previous section, other than those aged between 20 and 25, other age groups displayed an almost

identical pattern in terms of their knowledge sharing behavior. Compared to other age groups, respondents aged between 20 and 25 have the least number of experience

working in the organizations. Being more junior, surely they have fewer companions or cohort in the workplace and that would certainly

limit their knowledge sharing activities.

With regards to knowledge sharing behavior in terms of job level, this study has found there is a significant

difference between
managers and non-
manager (executives).

However, this finding has to
be interpreted with
cautious considering
uneven number of

respondents between the two job levels.

Nevertheless, it was clear that the overall mean for the middle manager is greater than the executives which could be attributed

by the fact that the job nature of the manager requires them to repetitively share work knowledge especially with their subordinates. Other possible explanation would

be that managers are the centers or nucleus for subordinates in their job reporting. In the process, these subordinates would be likely to share their knowledge and experience

with their superior.

Previous studies indicate that length of service has mixed results as a determinant of IS usage behavior. For instance, Burkhardt (1994)

discovered negative correlation between length of service and computer usage while Liao and Landry (2000) found that staff with longer length of service tend to perceive the

newly implemented IS as being very useful, which in turn became the strong predictor to the IS acceptance. Apparently, in terms of knowledge sharing behavior, the findings of

this study is consistent with that of Liao and Landry (2000). Employees with longer length of service usually have better understanding of organizational processes

and operations, as well as better involvement and contribution during the implementation of the intranet. Hence, these employees would perhaps perceive the intranet as

being very useful, which in turn heightens usage level which includes the purpose of knowledge sharing.

In investigating individual IS utilization behavior,

many researchers had also studied the effect of computer or internet experience. Evidently, many of these studies had found a strong support on the assertion that computer

or internet experience is a predictor of IS usage behavior (Igarria and Iivari, 1995; Hubona and Geitz, 1997; Alshare et al., 2004). In the context of intranet usage study, Chang

(2004) also discovered similar finding, which is also confirmed by the findings of this study.

Intranet is almost similar to internet and the only difference is on the breadth

and scope of its user coverage. Therefore, users who are already familiar with the internet and web-applications will find the intranet is just as convenient to the internet

which in turn promote their usage level not only for information searching but also for knowledge sharing.

Conclusion

The conduct of this study has been to investigate the demographic profiles of knowledge sharing behavior in an intranet

computing environment among executive staffs in selected Malaysian. The study has provided empirical evidence on the importance of intranet as an important knowledge

sharing tool in the workplace. Despite the success of accomplishing the research objectives, this study is also subject to a number of limitations which is mainly associated

with adopted research method. Firstly, the chosen respondents were those holding executive level positions or higher, and users of the lower level positions were omitted.

Therefore, future research should consider adopting every intranet user irrespective of their job level as respondents. As such, differences and comparisons can be made

between job-level and status of intranet utilization. Secondly, the chosen companies were of those of GLC only, hence other public and fully private companies were

excluded. Among government organizations, little is really known about the intranet utilization behavior among civil servants. Apparently, it is worth venturing into

research that explores the status of intranet utilization in government agencies especially when these organizations are steadily geared towards paperless office or e-government.

Equally appealing would be investigating the status of intranet utilization in fully private companies such as those from banking or manufacturing industries. Undeniably, the situation

and atmosphere in these companies are totally different as those from the GLC or government as they are more tailored towards cost-saving and profit making. Apparently, this

situation warrants research undertakings. Thirdly, the perceptual measures employed in the survey instrument are subject to individual interpretation and understanding. Hence,

instead of using self-reported measures for measuring intranet usage for knowledge sharing, a more accurate approach would be installing software-tracking systems

onto the intranet that would both monitor and record usage. However, such approaches would be quite difficult unless permission and access are granted by the

organization's intranet.

Also, objective measures as a substitute to perceptual measures would also provide more accurate measurement.

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