DETERMINANTS OF HEDONIC AND UTILITARIAN FACTORS IN
SOCIAL NETWORK SITES ACCEPTANCE MODEL

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This thesis is dedicated to my beloved parents
ACKNOWLEDGEMENT

I would like to acknowledge all who stood with me through this intense process. In particular, I wish to express my sincere appreciation to my main supervisor, Associate Professor Dr. Azizah bt Abdul Rahman and my co-supervisor Dr. Noorminshah A. Ahad. I will always be grateful for their supports.
ABSTRACT

Social Network Sites (SNS) are a rapidly growing phenomenon. Despite considerable growth in the number of SNS, very few of these sites are successful at retaining membership and confirming behavioural use intention by their members. At the same time, despite remarkable statistics related to the number of users and rate of growth of successful SNS, there has been little research into an explanation on sources of user acceptance on these sites. In particular, though SNS are found to be both hedonic oriented and utilitarian oriented systems, the combined influence of both hedonic and utilitarian factors on acceptance of SNS has been rarely investigated. The purpose of the study is to identify determinants of hedonic and utilitarian factors leading to SNS user use intention. Through the unification of theoretical backgrounds of behavioural use intention, in particular the Technology Acceptance Model and interdisciplinary literature relevant to SNS, comprehensive set of constructs and their interrelationships were formed as the research hypotheses. The research hypotheses guide the development of measurement model which was specified in an instrument. The instrument was applied in two stages of a pilot study and the main study for data gathering. Employing cluster sampling technique, 712 students of 15 faculties as secondary sampling units from three academic institutes as primary sampling units responded to the study in a paper-based questionnaire mode. The study applied Structural Equation Modeling and statistical analysis such as factor analysis, path analysis and regression analysis. The findings demonstrate the relation between various aspects of utilitarian and hedonic factors with use intention through the representative constructs of Perceived Enjoyment and Perceived Usefulness. As a result, four constructs including Social Connectedness, Social Communication, Social Awareness and Subjective Norms were identified to be determinants of Perceived Usefulness in SNS. On the other hand, Interactivity in Use, Curiosity and Novelty were identified as determinants of Perceived Enjoyment. Additionally, the significant relationships between Perceived Enjoyment and Perceived Usefulness with Behavioural Use Intention on SNS were found. The results lead to development of SNS acceptance model including both significant influential hedonic and utilitarian factors. This study provides a theoretical model and an instrument for evaluating the acceptance of SNS and has the potential to guide the implementation and design of new SNS.
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<tr>
<td>CMC</td>
<td>Computer Mediated Communication</td>
</tr>
<tr>
<td>HCI</td>
<td>Human Computer Interaction</td>
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<tr>
<td>IS</td>
<td>Information System</td>
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<td>SNS</td>
<td>Social Network Sites</td>
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<tr>
<td>EFA</td>
<td>Exploratory Factor Analysis</td>
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<td>CFA</td>
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<tr>
<td>AVE</td>
<td>Average Variance Extracted</td>
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<tr>
<td>GOF</td>
<td>Goodness of Fit</td>
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<td>GFI</td>
<td>Goodness of Fit Index</td>
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<td>AGFI</td>
<td>Adjusted Goodness of Fit Index</td>
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<td>RMSEA</td>
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<td>CR</td>
<td>Critical Ratio</td>
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<td>UI</td>
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<td>PEOU</td>
<td>Perceived Ease of Use</td>
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<td>Perceived Enjoyment</td>
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<td>Flow in Use</td>
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<td>NVL</td>
<td>Novelty</td>
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<td>CUR</td>
<td>Curiosity</td>
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<td>PRS</td>
<td>Presence</td>
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<td>CMU</td>
<td>Social Communication</td>
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CHAPTER 1

INTRODUCTION

1.1 Overview

The purpose of this study is to determine factors leading to use intention on Social Network Sites (SNS) through exploring a combination of hedonic and utilitarian factors in order to develop SNS acceptance model. This chapter introduces the initial step of the research which poses the research questions through the development of the problem statements. The descriptions of various aspects of the research background are discussed in terms of “growth and transformation of internet use”, “nature of human and social network sites” and “theoretical backgrounds about intention to use technologies” which taken together express the scope and importance of this research.

The research background guides the study to develop research questions. Consideration of research background and research questions underlines the motivation for conducting this study and directed this research to collect data for the advancement of knowledge about the user and use intention as well as adoption and acceptance of SNS. Therefore, subsequent to discussing the research background and problem statements, an unambiguous set of objectives is defined to illustrate what is intended to be accomplished. This is followed by a discussion of the scope and significance of this study and the structure of the thesis.
1.2 **Background of the Study**

The growth of Information and Communication Technology (ICT) has led to an evolution in the previous solutions to many predicaments and problems. Such growth has supported users in obtaining various goals and performing a variety of functions which were not possible before. One of the aspects of such growth is commercialization of the Internet which has promoted a novel environment and tools which significantly affect human life.

In the last decade, individuals have increasingly turned to the Internet as their primary source of information, leaving behind many other forms of media (Horrigan, 2008; Purcell, 2010). The Internet has replaced or improved the utilities of various everyday information tools such as maps, magazines and books. The Internet has also replaced or facilitated many individuals’ regular procedures such as banking and shopping.

Internet technology like any other class of technology has evolved during its lifecycle. In recent years, the Internet has transformed from a tool for information dissemination to a socially constructed network surrounded by various forms of formal and informal virtual online communities. The ubiquity of electronic networks and the breadth of digital platforms beyond simple forums have led to major economic and social transformations worldwide (Agarwal *et al.*, 2008).

Rather than being a source of information, the Internet has increasingly enabled people to connect with other Internet users. Proliferation of SNS in such an environment is the best representative of this issue. Facebook, for example, connects over a billion users who communicate and interact with each other worldwide (Jin *et al.*, 2013; Marichal, 2013). Understanding the transformation of the user’s behavioral intentions and adoption of SNS which allow users to interact with each other can provide a better understanding of users’ intent in terms of new streams of Internet applications.
The use of SNS as a tool for computer mediated communication is experiencing remarkable growth. SNS are designed to support social interactions in modern life. Since the popularity of the Internet has increased around the world, SNS such as Facebook have been widely used. The extensive involvement of individuals in these environments has caused SNS to become one of the most popular and supplemental means of human communication (Doğruer et al., 2011; Ross et al., 2009).

SNS are not bordered by geographic, financial and time constraints, and offers immense functional potential for transmitting and processing a message or meaning from individuals since it supports more alternatives for reprocessability, synchronicity and symbol sets. Such attributes are the inherent characteristics of these sites which have attracted an enormous number of users worldwide (Jin et al., 2013; Marichal, 2013).

In discussing SNS, the use of SNS is not just based on a result of the attraction and recognition of these sites but based on outstanding statistics related to the number of users, rate of growth and reaching the highest traffic rankings worldwide and within Malaysia. According to Alexa (2013) statistics, Facebook for instance has the highest traffic rank in Malaysia over the last three years and such a pattern is similar to the worldwide website traffic ranks statistics. The total number of Facebook users in Malaysia is approaching 13,000,000 and grew by around 350,000 in the first 6 months of 2012 (Rohaya et al., 2013). This evidence reveals the importance of SNS and the need for further and more in-depth investigation into such tools to understand the significance of why people intend to use these sites.

SNS are used and adopted by various types of users around the world especially younger people. Individuals use SNS for conducting a communicative interpersonal interaction involving a range of contextual discourses within these sites. There are various forms of usages for SNS. While these sites primarily provide an environment for connecting with friends and acquaintances, they also promote an amusing and efficient environment for messaging which enhanced communication (Bumgarner, 2007; Joinson, 2008). On the other hand, SNS are being used as a
directory that enables the tracking of great numbers of users, allowing various forms of broad-based peer-to-peer social observation (Lampe et al., 2006).

Uses of SNS have been investigated by many scholars (Bumgarner, 2007; Joinson, 2008; Valenzuela et al., 2009; Lin and Lu, 2013; Ku et al., 2013) by applying use and gratification methodology. These methodologies can be considered as the most common practical methodology in media studies to evaluate motivations of media use. The researches which applied such methodologies found SNS are used as social utility software and its directory enables individual and group participation.

In line with these researches, Valenzuela et al. (2009) found four reasons for membership in a SNS which are entertainment, socializing, self-status and information seeking. Using similar approach, Joinson (2008) found people use Facebook primarily for social connection, shared identities, content sharing and social investigation.

While a wide range of study on SNS aimed to explore influential factors on use intention on SNS, there is lack of comprehensive studies on SNS which integrated all essential factors of SNS use intention in a single study (Pornsakulvanich and Dumrongsiiri, 2013; Lin and Lu, 2011). Thus, conducting research on SNS to integrate all factors related to SNS use can be a critical step in understanding why people intend to use SNS.

Understanding why people are using SNS requires investigating all factors influencing SNS use. In particular, exploring both utilitarian and hedonic factors related to SNS use can be a potential direction for better and comprehensive understanding of sources of use intention to participate in these sites. Both of these factors have been found to clarify the sources of users’ intention to use SNS (Lin and Lu, 2011; Pillai and Mukherjee, 2011; Lee et al., 2012; Ernst et al., 2013; Jin, 2013). Utilitarian factors are related to goal-oriented and reasonable behavior concerned with instrumental value, while hedonic factors are involved in seeking fun and enjoyment in an experience (Babin et al., 1994; Wertenbroch and Dhar, 2000; Voss et al., 2003).
Part of the foundation of this study background is the evidence demonstrating the importance of an in-depth investigation of SNS for understanding SNS users’ intentions to use these sites. Subsequently, such an investigation supports the enhanced understanding adoption and acceptance of users in SNS through exploring a combination of hedonic and utilitarian factors in such environments.

With the increased growth in internet use, many scholars have endeavored to understand sources of use intention on online environments. The variety of applications in online environment have led researchers to apply various theories and models regarding different research domains such as e-commerce (Bhattacherjee, 2001), e-learning (Lee et al., 2005) and e-banking (Lai and Li, 2005).

There are various theories and models that discuss important factors influencing behavioral use intention. These studies mostly described factors significant to users in the process of adoption, acceptance and use of technology which can lead to behavioral user intention. The most common theoretical background for exploring use intention regarding technology includes a range of theories and models such as Expectation-Confirmation Theory (ECT) which was presented by Oliver (1977), Information System success Model (ISSM) by DeLone and McLean (1992), Diffusion of Innovations (DOI) theory by Rogers (1995), Theory of Planned Behavior (TPB) by Ajzen (1991) and Theory of Reasoned Action (TRA) by Ajzen and Fishbein (1973).

While all discussed theories are applicable and were applied to explore use intention, most of the study stream relevant to use intention in online environment is drawn from Technology Acceptance Model (TAM) by (Davis, 1989). Furthermore, TAM model more than any other model or theory has been applied and variously extended in different fields to fit various contexts (Venkatesh and Bala, 2008). Thus, the theoretical grounding for the current study also originated from TAM in order to investigate use intention on SNS which has been discussed further in Chapter Two.

TAM has been selected as theoretical grounding of the research for several main reasons. First, extended TAM model is parsimonious with high explanatory
power for the variance in users' behavioral intentions and can be used as a guideline to develop a successful acceptance model (Venkatesh and Davis, 2000) which is the final goal of this study. Second, after much research, TAM has been successfully tested across a wide range of computing technologies and organizational settings (Hasan and Ahmed, 2007). Third, research has supported the robustness of the model across time and populations (Venkatesh and Davis, 2000). Fourth, in line with the application of TAM in a stream of prior studies and based on the fact that SNS was considered as both a utilitarian system (Gómez-Borja, 2012) and hedonic system (Hu et al., 2011), TAM allows this study to investigate both hedonic and utilitarian factors related to SNS usage.

1.3 Statement of the Problems

There has been a vast amount of research on Internet technology. In recent years, a new stream of research in this field has started gaining attention in regard to SNS usage. Research on SNS has been predominantly conducted in fields such as privacy (Mohamed and Ahmad, 2012), education (Karpinski et al., 2013), psychology (Wang et al., 2012), health (Lauckner et al., 2013), marketing (Fuciu and Gorski, 2013), cultural (Al Omoush et al., 2012), social (Lee, 2013) aspects. However, there is a lack of studies (Lu and Yang, 2013; Ku et al., 2013) that have researched user behaviors regarding the adoption and acceptance of SNS. Additionally, the few studies which investigated SNS acceptance and adoption have neglected significant parts of inherent nature of SNS which is related to both hedonic and utilitarian factors of SNS use (Yeh et al., 2011; Lee et al., 2012; Ernst et al., 2013; Jin, 2013).

To understand why people intend to use SNS, it is essential to primarily understand the nature of these sites. While some scholars (Sledgianowski and Kulviwat, 2008; Hu et al., 2011) have described SNS as hedonic in nature, other groups of researchers (Alarcón-del-Amo et al., 2012; Gómez, 2012) described SNS as utilitarian in nature. Based on this fact, it can be concluded that SNS is both
hedonic-oriented and utilitarian-oriented. Additionally, while both hedonic and utilitarian factors are essential in SNS use acceptance and adoption, there is lack of study that integrated both of these factors for understanding SNS (Ernst et al., 2013; Pillai and Mukherjee, 2011).

The hedonic oriented SNS researches (Sledgianowski and Kulviwat, 2008; Boyd and Ellison, 2007; Thambusamy et al., 2010; Harden et al., 2012) discussed SNS as a system related to a range of functionalities relevant to fun and enjoyment while participating SNS. The utilitarian oriented research on SNS studies (Raacke and Bonds, 2008; Subrahmanyam et al., 2008; Bonds and Raacke, 2010) discussed SNS as system related to a range of functionalities relevant to external benefits such as the ability to communicate, organize events and stay in touch with friends.

It is variously discussed that individuals adopt and use ICT as they recognize the opportunity of achieving both usefulness and enjoyment from ICT (Teo et al., 1999; Moon and Kim, 2001; van der Heijden, 2004; Kim et al., 2007; Lu and Su, 2009; Lin and Bhattacherjee, 2008). The adoption and use of SNS is also considered to be pertinent to user perceptions about usefulness (Kate et al., 2010) and enjoyment (Shin, 2010). Meanwhile, perceived usefulness and perceived enjoyment are found to be the best representative constructs for hedonic and utilitarian factors on SNS (Pillai and Mukherjee, 2011). However, there is a lack of studies which investigate a combination of these constructs on SNS domains (Yeh et al., 2011; Ernst et al., 2013).

In addition to perceived usefulness and perceived enjoyment which are rarely discussed in previous studies of SNS, many other factors such as relationship maintenance, social presence and curiosity have significantly determined hedonic or utilitarian outcomes for SNS use (Xu et al., 2012; Lallmahomed et al., 2013; Choi et al., 2013) which consequently lead to use intention on SNS. However, many of these factors are not tested or included as evidence for SNS use intention into an integrated model for understanding use acceptance of these sites. This leaves open the question about determinants of hedonic and utilitarian factors on SNS in relationship with acceptance of these sites.
On the other hand, despite extensive growth in the number of SNS, very few of these sites have been successful in retaining members and ensuring continued usage by their members (Ma and Agarwal, 2007; Kaplan and Haenlein, 2010). Meanwhile, a few of the SNS that have been able to garner high membership are among the most visited websites worldwide. Based on the fact that many SNS fail and a few rise to the top, this poses the question of which factors cause users to intend to use these SNS which consequently lead to acceptance and adoption of these SNS. This fact elicits the necessity to understand the relationship between the influencing factors to theory and model SNS acceptance model.

Based on the above discussion, there is a lack of empirical studies which assessed use intention on SNS while considering both hedonic and utilitarian factors on these sites. This is a significant gap in previous SNS studies. Furthermore, there are no studies that have comprehensively theorized and modeled the acceptance and adoption in SNS, particularly regarding intention to use these sites through understanding both hedonic and utilitarian factors of usage. In fact, there is limited understanding of the patterns of acceptance and adoption of SNS. These are the circumstances that motivated the conduct of this research.

The problem statements of this research can be expressed in three main parts. The first part concerns the lack of reflection on the use intention on SNS with consideration of both hedonic and utilitarian factors relevant to SNS use based on the nature of social network environment. The second part concerns the lack of practical instruments for measuring such factors in such a context. The third part concerns the possibility of modeling acceptance of SNS through a framework of constructs relevant to both hedonic and utilitarian factors which exist in the dynamic social network environment.
1.4 Research Questions

While many scholars have sought to investigate the causes, applications, and motivators of user participation in SNS, this research proposes a new practice for the empirical exploration of essential factors in relationship with SNS use intention. Such practice aims to integrate both hedonic and utilitarian factors influencing SNS use intention. Accordingly, this study’s effort would help to clarify how to theorise a new model of SNS acceptance model.

Based on the fact that SNS was considered as both a utilitarian system (Gómez-Borja, 2012) and hedonic system (Hu et al., 2011), the current study investigates SNS use intention through exploring both hedonic and utilitarian factors in order to develop SNS acceptance model. Thus, the core question can be declared as “how to model SNS use acceptance regarding hedonic and utilitarian influential factors on use intention?” for this study. Based on the research core question, the research questions can be fragmented into smaller inter-connected problems. These problems can be phrased as research questions as follows:

(i) What are the hedonic and utilitarian determinants of SNS use?
(ii) What is the interrelationship between hedonic and utilitarian factors and use intention on SNS?
(iii) How to develop SNS acceptance model based on both hedonic and utilitarian factors?

1.5 Research Objectives

The main objective of this study is to contribute to a theoretical understanding that allows for the development of SNS acceptance model. Reflection on the study’s core question and research questions led to the identification of the following set of defined research objectives to guide the direction of this study:
To identify the hedonic and utilitarian determinants of SNS use.

To identify the interrelationship between hedonic and utilitarian factors and use intention on SNS.

To develop SNS acceptance model through both hedonic and utilitarian factors.

1.6 Research Scope

Based on the research questions and research objectives discussed above, the aim of the current study is on the development of SNS acceptance model through relevant hedonic and utilitarian factor in SNS use. Thereby, this research focuses on developing a reliable and validated measurement model for SNS to understand determinants of hedonic and utilitarian factors in SNS and consequently modeling use intention through hedonic and utilitarian factors of SNS use.

SNS fall under a broad category known as online communities which allow the members to have public or semi-public profile while creating specific types of relationships between users. Since there are a variety of SNS encompassing many attributes of online technologies, Facebook was selected in this study to gather information for some noteworthy reasons. First, Facebook includes most of the attributes of SNS relevant to the context of the study and thus can be used to make assumptions about general purpose SNS. Second, since Facebook is the most popular SNS, most of the target populations were members of this site.

On the other hand, since SNS users differ by age range and other demographics including social, economic or cultural background, this study targeted only university students aged 18 to 34 who are members of Facebook within Malaysia. It is based on the fact that the age distribution of SNS users is significantly spread between the ages of 18 to 34 in Malaysia (Rohaya et al., 2013) as well as worldwide and students at this age are the most frequent users of SNS. Additional details on the sampling frame of this study are illustrated in Chapter Three.
1.7 Importance of the Study

The role of the Internet user has been transformed during the last decade from atomic and passive users to active and dynamic users which are more involved and participating in social online environments. This necessitates more exploration of factors influencing users in such environments. At the same time, SNS are growing remarkably which highlights the need for further investigation of these sites. Hence, the importance of this study primary relies on understanding why individuals intend to use SNS based on outcomes of various empirical and statistical analysis.

Furthermore, this study contributes to the understanding of SNS use intention through exploring hedonic and utilitarian factors which provide insights into social and active users by discussing such existing factors on SNS context. Such exploration supports the development of SNS acceptance model through hedonic and utilitarian factors which was not investigated in previous studies of SNS. Such a model is an important deliverable which provides the foundation for prospect evaluation, artifact design and system implementation of future SNS.

The findings of this study also contribute to the body of ideas and knowledge about SNS use which is accompanied by the development of justified constructs and verified measurement model for SNS use. Such findings are a practical step which is critical for future research studies on SNS, whether those researches are about building and evaluation or theorizing and justification.

1.8 Organization of the Study

The main reflections of this thesis can be summarized in several main stages. The primary stages involve an extensive review of the literature to propose a research conceptual framework and subsequently develop research hypotheses. Next stage is through identifying and developing relevant constructs pertinent to the proposed
structural model on SNS. Subsequently, validated and reliable instruments are developed based on the constructs. Consequently, the relationships between the constructs are theorized based on analysis of empirical gathered data.

The study is reported in six chapters. Each chapter starts with an overview which explains the aims and intentions of each chapter. The current chapter outlined the research questions, objectives and scope. It is followed by a broad literature review presented in Chapter Two. The literature review starts with an overview of SNS and continues with a systematic review of interdisciplinary research on SNS. Hedonic and utilitarian factors related to SNS are discussed. Theoretical background relevant to use intention is also reviewed which led to selection of TAM as the theoretical grounding for this research. As a result, essential domains of the research are identified, leading to the development of the research hypotheses and research conceptual framework at the end of the literature review.

Following the literature review, the explanation of research methodology is demonstrated in Chapter Three which is used as a guideline for the research process. A combination of various methods and tools are described in order to ensure that research obtains validated and reliable deliverables in each stage. Consequently, the research operational framework is developed in detail at the end of that chapter.

The other critical phase of this research is development of measurement model which is covered in Chapter Four. The development of instrument is essential for evaluation of measurement model and final research model. This chapter demonstrates the process of development of constructs in the context of study as well as development of instruments. The procedure of instrument evaluation regarding accuracy and consistency is also demonstrated, leading to development of a refined instrument as measurement model. Chapter Four also shows the result of empirical analysis which is performed on the pilot study gathered data in order to estimate and evaluate the measurement model.

In Chapter Five, the outcomes of various statistical analysis on the main sample frame are illustrated which covers the achieved research objectives. These
results are based on an extensive empirical data gathering which determined the relations of identified constructs. Accordingly the accepted and rejected research hypotheses are discussed based on practical analysis and the final validated model is presented.

The combination of the described results posed the research main contributions which are covered in Chapter Six. Furthermore, the highlights of achievements, limitation of the research and recommended directions for further research are covered in that chapter.
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