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Exploring Predictive Switching Factors for Mobile Number Portability

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Executive Summary

In today's dynamic and competitive environment, customers have numerous choices to take decision on which products and services to use. In the wireless communications industry, the introduction of mobile number portability (MNP) may induce more and more consumers to switch their network operator, as MNP allows consumers to retain their original telephone number when switching from one carrier to another. This might have significant effect on price competition and market share of network providers (Shi, Chiang, & Rhee, 2006).

In this backdrop, the present study examines the effect of MNP on consumers' switching intentions and also the factors affecting those switching intentions in Indian mobile phone services context. Further, the study investigates the relationship between switching intentions and actual switching (ASW) or actual staying (AST) behaviour of consumers.

The main findings of the study are:

- After MNP implementation, consumers' switching intentions have not changed, as they appear to be satisfied with the services of their current service provider and with regard to those who have already switched, they switched without MNP.
- Factors such as service quality, relational quality (i.e., satisfaction, trust, and commitment), price, reputation and image, attitude towards switching, perceived ease of use and usefulness, and switching costs (SCs) significantly affect consumers' switching intentions.
- Consumers' switching intentions predict both ASW and AST behaviour of consumers. However, switching intentions better predict AST than ASW behaviour. This implies that even if consumers have intentions to switch their current operator, they would not actually switch because of SCs involved in terms of time, money, and effort.

The authors have suggested initiatives that the service providers as well as the Telecom Regulatory Authority of India (TRAI) need to undertake for proper implementation and acceptance of MNP among consumers.

KEY WORDS

Switching Intentions

Mobile Number Portability (MNP)

Relational Quality

Service Providers

Telecom Regulatory Authority of India (TRAI)

n the past several years, there has been intense competition in the wireless telecommunications industry, following an unprecedented increase in the growth rate. The growth of the wireless telecommunications industry is due to the greater number of subscribers and greater variety of services, namely, wireline services, wireless services (global system for mobile communication [GSM] and code division multiple access [CDMA]), internet services, public mobile radio trunked services, global mobile personal communication by satellite (GMPCS), very small aperture terminals (VSATs), mobile value-added services, etc., that are now offered. In the early stages of market growth, the emphasis was on acquiring new subscribers but now as the market has matured, the significance of retaining current consumers has increased drastically. Indeed, acquiring new consumers is more difficult and expensive than retaining the existing consumers, which is important for manufacturing and services sectors of an economy (Saeed, Hussain, & Riaz, 2011).

Telecommunication sector is one of the technologically developed sectors of the Indian economy, as reported by the Telecom Regulatory Authority of India (TRAI). The total number of telephone subscribers was 621 million in the year 2010, which increased to 951 million in 2012 and 1,048 million in 2013 (Table 1) (Cellular Operators Association of India, n.d.). The number of wireless subscribers reached 998 million in 2013, as consumers realized the utility of mobile services in handling their day-to-day affairs (personal as well as professional). In response to the introduction of mobile number portability (MNP), whereby consumers can retain their mobile number even when switching to another telecom operator, initially 1 per cent (in 2011) applications were received, which subsequently increased to 5 per cent (in 2012) and 6 per cent (in 2013) (Table 1). Since consumer switching has become a critical issue facing mobile service firms, leading to the relationship dissolution, the debate to

attract and retain consumers has resulted in the development of relationship marketing strategies. In this regard, Duck (1982) explained relationship dissolution as the permanent dismembership, that is, migration of users from one service provider to another. In most services context, consumer switching is associated with negative consequences such as declining market share and poor profitability (Keaveney, 1995). As switching has become a common practice among mobile users, it assumes additional significance in this context. To control switching, mobile service providers are increasingly relying on contracts that would lock-in consumers for a definite time period, but with changing competitive dynamics, contracts are not being favoured by many users (Braff & Laogue, 2004). Therefore, it becomes important to understand the fundamental drivers of consumers' switching behaviour in the context of mobile services.

MNP allows consumers to retain their telephone numbers when switching from one service provider to another. The switching costs (SCs) associated with subscriber identity module (SIM) have been abolished, which offers adequate opportunities for the consumers to choose the service provider that best suits their telecom needs. MNP is important for telecom markets because besides removing the barrier to switching, it has several additional advantages in the Indian context, where there is an oligopoly structure of telecommunication market and everyone is trying their best to impress and satisfy immediate subscribers in order to maintain the number of existing ones and also to attract potential customers. Therefore, with the introduction of MNP in India, subscribers can enjoy the freedom of choice, thereby exiting bad network service provider, as they can easily make comparison between the services of few or limited network operators and switch to the one that best suits their need, without sacrificing their mobile numbers. However, the success of MNP is likely to depend on factors such as how simple and inexpensive the implementation of portability is.

Table 1: Subscriber Statistics (2010–2013)

	FY-2010	FY-2011	FY-2012	FY-2013
Total subscribers (million)	621	846	951	1048
Total wireless subscribers (million)	584	812	919	998
Active subscribers (million)	NA	574	683	788
MNP requests (million)	NA	6	42	58
MNP as a percentage of wireless subscribers	NA	1%	5%	6%

Source: Cellular Operators Association of India (2015).

Switching cost reduces the consumers' incentives to change their network providers, when they are not satisfied with the existing services. MNP reduces the cost associated with network switching and thus eases the burden of consumers, induces more competition, and helps the new entrants (Armstrong, 1997). Therefore, it is possible that more and more consumers get involved in switching their service providers and this switching behaviour of consumers significantly affects price competition and market share of network providers in the wireless/mobile communication industry (Shi et al., 2006).

As it is clear from Table 2, before MNP, the share of Bharti Airtel was 28.09 per cent, followed by Vodafone (22.88%), Idea (15.06%), Bharat Sanchar Nigam Limited (BSNL) (14.99%), Aircel (9.24%), etc. However, with MNP, most of the large network operators gained market share (e.g., Bharti Airtel 28.18%, Vodafone 23.01%, Idea 18.82%, and Aircel 9.94%) while the smaller firms such as Videocon, Mahanagar Telephone Nigam Limited (MTNL), and Loop mobile struggled to hold their current market position (Shi et al., 2006). Consumers who did not like the services of Videocon, MTNL, etc., switched to get the benefit from MNP.

Several studies have been conducted to investigate the costs and benefits of MNP, consumer adoption of MNP, and the effects of MNP on call rates and service quality (SQ) (Buehler, Dewenter, & Haucap, 2006; Dick & Basu, 1994). With the exception of one study (Shin & Kim, 2008), pertinent previous literature has not examined

consumers' switching intentions with MNP and if in the past they had intentions to switch their service provider, how many of them actually switched and what were the factors behind that switching. Therefore, the present study explores the factors causing switching intentions and analyses whether MNP has increased consumers' switching intentions. The factors predicting consumers' switching intentions include awareness about MNP (AAMNP), SQ, satisfaction, trust, commitment, price, reputation and image, attitude towards switching (ATS), perceived ease of use (PEOU) and perceived usefulness (PU), and SCs.

A review of extant pertinent literature reveals that numerous studies have been conducted by eminent researchers in the telecom sector but only limited aspects of customer switching intentions have been covered. For example, Gerpott, Rams, and Schindler (2001) demonstrated that overall customer satisfaction (CS) had a significant impact on customer loyalty (CL), which in turn influenced a customer's intention to terminate/extend the contractual relationship with his mobile cellular network operator. Further, the study found that mobile service price and personal service benefit perceptions were the supply-related variables with the strongest effects on network operator. However, as the study was confined to CS and CL, future research can be pursued with customer-side variables reflecting specific individual customer goals and motivations in using cellular services. Buehler and Haucap (2004) examined the consequences of MNP and revealed that the ultimate effect of introducing MNP

Table 2: Market Share of Network Providers in India

S. No.	Name of the Network Provider			% of Net Increase/ Decrease
1	Bharti Airtel	28.09	28.18	0.09
2	Vodafone Essar	22.88	23.01	0.13
3	Idea	15.06	18.82	3.76
4	BSNL	14.99	13.05	(1.94)
5	Aircel	9.24	9.94	0.70
6	Reliance Telecom/Telewings	3.00	5.40	2.40
7	Uninor	3.41	=	(3.41)
8	Videocon	1.35	0.76	(0.59)
9	MTNL	0.94	0.44	(0.44)
10	Loop Mobile	0.56	0.41	(0.41)
11	Stel	0.43	-	-
12	Etisalat	0.05	-	-

Source: http://www.coai.com/statistics/gsm-subscriber-figure-report

was the abolition of SCs, that is, the cost of changing SIM card. However, the study was conceptual in nature and it ignored the empirical effects of MNP on consumers' switching behaviour. Aydin and Ozer (2005) suggested a significant relationship between CS, CL, trust, and SC's sub-constructs in the mobile phone market. The study tested cause-effect relationships simultaneously between the variables on the basis of correlation; in future, these relationships should be tested by using structural equation modelling (SEM). Shin and Kim (2008) found that CS, switching barriers, and demographics significantly affected subscribers' intention to switch. Among these factors, switching barriers (positive) had the most significant influence. However, the study was confined only to the positive switching barriers and was also limited to intentions; therefore, future research needs to explore the actual staying (AST) and switching behaviour of consumers. Lyons (2009) examined the impact of MNP on mobile telephony retail prices by using international time-series cross-section data and found that MNP reduced average prices when the switching process was rapid (less than five days) but not when it was slower. However, the study is conceptual in nature. Rahman, Haque, and Ahmad (2011) determined the factors (i.e., SQ, call rate, and brand image) of customers' perception towards an operator and suggested that price and SQ were more important factors influencing customers' choice of service provider than brand image. As the study was conducted in Malaysia, it was felt that similar research could be conducted in different cultural settings.

Thus, the previous studies were limited to either one or two aspects of customer switching in mobile phone services. The proposed study intends to fill this research gap by examining all the dimensions of customer switching intentions such as awareness of MNP application, SQ, relational quality (RQ), perceived price, reputation and image of the operator, ATS, PEOU, PU, and SCs. The study also proposes to find out the effects of MNP on customers' switching intentions, which have never been explored earlier. Besides this, an attempt shall be made to find factors influencing customers' actual switching (ASW) or AST in mobile phone services.

HYPOTHESES DEVELOPMENT

Keaveney (1995) was the first to develop a model of consumer switching behaviour for service incidents in which he identified eight incidents, that is, pricing, inconvenience, core service failures, employees' response to service failures, attraction by competitors, ethical problems, involuntary switching, and seldom mentioned incidents.

In the mobile communication sector, which has oligopoly characteristics, MNP has increased the competition, protected the consumers, allowed them to switch the service provider easier than ever before, and decreased the cost of changing the provider. In this regard, Durukan, Bozaci, and Dogan (2011) analysed the relationship between awareness of MNP and consumers' switching intentions on the basis of benefits, costs, quality, recent developments, and discounts, but revealed that there was no relationship between 'awareness of MNP' and 'consumers' switching intentions'. Though awareness regarding MNP can assist consumers in taking appropriate decisions regarding switching the service provider, consumers shall also consider economical, relational, technical, and functional factors before deciding in favour of switching the current network operator. Awareness regarding MNP can generate understanding about the industry and help in differentiating between superior and low quality product so as to keep the market updated and create awareness of what is happening in the industry; however, the decision to exit a network operator shall never solely depend on their awareness regarding MNP. Hence, the following hypothesis can be formulated.

H1: Consumers' MNP awareness has no significant impact on their switching intentions.

SQ in the telecom industry is an important indicator to assess a firm's performance. Mobile subscribers who perceive that operators differ in service levels are more likely to switch than those who do not see any difference among networks (Federal Communications Commission, 2005). In this context, Bansal and Taylor (1999) revealed that SQ was indirectly related to consumers' switching intentions via ATS. Similarly, Bansal, Taylor, and James (2005) asserted that consumers would switch their existing service provider if they perceived low SQ. Chen and Wang (2009) analysed the relationship between core SQ and consumer satisfaction in insurance sector and revealed that core SQ was a critical determinant of consumer satisfaction. The higher level of core SQ increases the level of consumers' satisfaction and decreases their intentions to switch. Also, Shin and Kim (2008) reported that SQ was indirectly related to switching intentions via satisfaction and Khan, Ghouri, Siddqui, Shaikh, and Alam (2010) demonstrated that there was a positive relationship between unfavourable SQ and consumers' switching a bank. Similarly, Anton, Camarero, and Carrero (2007) indicated that consumers' perception of poor SQ had a positive effect on termination intentions. In addition, Hess, Ganesan, and Klein (2003) concluded that high quality could actually motivate consumers to strengthen the relationship with their service provider. Further, Huang, Cheng, and Farn (2007) found that quality helped in promoting consumers' loyalty and Bell, Auh, and Smalley (2005) indicated that both technical and functional SQ were positively related to consumer loyalty. Thus, the following hypothesis can be formulated.

H2: Lower level of SQ significantly leads to higher consumers' switching intentions.

RQ is an overall construct, which is based on the previous experiences and impressions the consumer has with the service provider (Hennig-Thurau & Klee, 1997). Pi and Huang (2011) treated RQ with a service organization as a second-order latent construct encompassing satisfaction, trust, and commitment. Cronin and Taylor (1992), Oliver and Swan (1989), and Sharma and Patterson (2000) found that CS had a significant impact on repurchase intentions in a wide range of services. Also, Liang, Wang, and Farquhar (2009) provided empirical evidence that consumer satisfaction was significantly related to behavioural loyalty in financial services industry. Trust—the consumer's feeling that the seller will fulfil his promises—is also an antecedent of consumers' future behavioural intentions (Garbarino & Johnson, 1999; Morgan & Hunt, 1994). Trust is also a strong predictor of commitment, which leads to repurchase intentions (Hennig-Thurau, Gwinner, & Gremler, 2002; Sharma & Patterson, 2000). In the context of hair styling and auto repair services, Bansal et al. (2005) found a negative relationship between satisfaction, trust, commitment, and consumers' switching of service provider. Further, Wetzels, Ruyter, and Birgelen (1998) reported that commitment was a strong factor, which enhanced staying intentions. In addition, Lau and Lee (1999) examined a significant positive association between customers' trust in brand and their loyalty and Ranaweera and Prabhu (2003) confirmed that trust had a significant positive impact on consumer retention. Hence, the following hypothesis can be formulated.

H3: The lower the satisfaction, trust, and commitment towards the service provider, the higher the consumers' switching intentions.

There are two tendencies with respect to consumers' perception of the price. The first maintains that consumers regard high prices as a signal of high quality and vice versa (Dodds, Monroe, & Grewal, 1991); the second, in contrast, suggests that low prices can also function as a signal of good value for money (Kirmani & Rao, 2000). In either case, whether a low price is perceived as a low quality or a high price is perceived as uneconomical, when consumers are dissatisfied with the value for money or perceive the price to be unfair, their intentions are stronger to switch the supplier (Campbell, 1999). In this regard, Keaveney (1995) suggested that consumers voluntarily switched suppliers because of their personal dissatisfaction with the prices they paid. This dissatisfaction arose when the consumers perceived the price to be unfair or excessively higher than alternative options. Also, Bansal et al. (2005) indicated that among the reasons why consumers switched suppliers, price-related issues were important. Even Khan et al. (2010) concluded that price positively influenced consumer switching behaviour. Similarly, Anton et al. (2007) demonstrated that consumers' perception of paying an unfair price for the service positively affected their intention to exit the relationship. Therefore, the following hypothesis can be formulated.

H4: Unfavourable perception of price has a positive impact on consumers' switching intentions.

Reputation has been described as a social identity and an important intangible resource that can significantly contribute to a firm's performance and its survival (Rao, 1994). It is a key asset to firms, as it is valuable, distinctive, difficult to duplicate, non-substitutable, and it provides the firm with a sustainable competitive advantage (Wang, Lo, & Hui, 2003). In this context, Muffatto and Panizzolo (1995) indicated that reputation played a key role in measuring consumer satisfaction and thus, it was identified as a key ingredient to retain consumers in the services sector. Also, Wang et al. (2003) revealed that the quality of product/service benefited not only by lowering costs but also by increasing competitiveness through the establishment of a good reputation and attraction and retention of consumers. Bloemer, Ruyter, and Peeters (1998) found that image was indirectly related to loyalty via perceived quality, whereas Awang (2010) demonstrated that corporate reputation was indirectly related to competitive advantage via perceived value and perceived quality of the service. Further, Khan et al. (2010) examined a positive relationship between unfavourable bank reputation and consumers' switching of a bank. Thus, the following hypothesis can be formulated.

H5: Unfavourable reputation of service provider significantly influences consumers' switching intentions.

The role of one's ATS in predicting intentions to switch remains unexplored in mobile services or telecom sector. Generally, the more favourable the attitude is with respect to the behaviour in question, the stronger is an individual's intention to perform that behaviour (Ajzen, 1999). In the context of mortgage services, Bansal and Taylor (1999) revealed that ATS was the most influential determinant of switching intentions, which was influenced by subjective norms, consequentially influencing consumers' switching intentions. Bansal and Taylor (1999, 2002) also concluded that attitudes towards switching were associated with consumers' switching intentions. Thus, a person holding favourable ATS will be more likely to switch his current service provider (Desbarats, 1983). Hence, the following hypothesis can be formulated.

H6: Positive ATS significantly leads to strong switching intentions.

Perceived usefulness is often regarded as a concept that includes components such as effectiveness, efficiency, availability, sociability, reassurance, and instrumentality (Leung & Wei, 2000). PEOU refers to the degree of effort that consumers associate with using a mobile service (Davis, 1989). In this regard, Hung, Ku, and Chang (2003) revealed that PEOU influenced intentions to use mobile services. In addition, Nysveen, Pederson, and Thorbjornsen (2005) concluded that there was a strong and direct effect of PU and PEOU on intentions to use goal-directed mobile services. Davis (1989) also indicated that PEOU positively influenced PU, suggesting that only if the mobile services were easy to use, the consumers would be able to take advantage of all the possible benefits of the goal-directed services. Thus, PEOU and PU are important motivations for using mobile services. Hence, the following hypothesis can be formulated.

H7: PEOU and PU are significant factors determining consumers' switching intentions.

Switching costs are defined as those costs that consumers associate with the process of switching from one supplier to another (Burnham, Frels, &

Mahajan, 2003; Wathne, Biong, & Heide, 2001). Jones, Mothersbaugh, and Beatty (2000) and Ping (1993) established a direct relationship between SCs and repurchase intentions. Lee and Cunningham (2001) found a significant impact of SC variables on service loyalty and concluded that service loyalty was not only determined by perceived SQ, but also by cost consideration that arose from present transaction and future switching possibilities. Burnham et al. (2003) affirmed that SCs drove consumers' intention to stay with their current service provider. If SCs are low, dissatisfaction with the SQ, price, or firm will motivate the intention to switch suppliers (Bansal et al., 2005). Anton et al. (2007) also found that SCs are indirectly related to consumers' switching intention via SQ, commitment, price, and anger incidents. Bansal and Taylor (1999) revealed that there is a direct relationship between SCs and consumers' switching intentions. More recently, Shin and Kim (2008) indicated that switching barriers are the key factors in subscribers' switching intentions. Thus, the following hypothesis can be formulated.

H8: The lower the SCs, the higher the consumers' switching intentions.

A critical factor in the Theory of Planned Behaviour (TPB) is an individual's intention to perform a particular behaviour. Behavioural intentions are considered to be a critical factor in explaining consumers' actual behaviour, where an individual's strong intention to perform certain behaviour is likely to result in its performance (Ajzen, 1991). The evidence for prediction of behaviour from intentions can be found in the applications of the Theory of Reasoned Action (TRA) and TPB in several behavioural contexts (Ajzen & Driver, 1992; East, 1993). In this context, Ajzen and Fishbein (1980) insisted that most individual's behaviour was predictably based on his/her intentions. Zeithaml, Berry, and Parasuraman (1996) also demonstrated that a favourable intention to switch predicted ASW. Further, Bansal and Taylor (1999) revealed that the stronger the consumers' intention to switch the service provider, the more likely they were to engage in switching behaviour. Hence, the following hypothesis can be formulated.

H9: Consumers' switching intentions significantly influence their ASW.

Changing consumer preferences and spending patterns influence consumers behaviour. For example, Beckett, Hewer, and Howcroft (2000) found that bank consumers transferred their account to alternative

providers because of changed lifestyle, such as marriage or shifting of house. Abratt and Russel (1999) showed that price followed by trust, SQ, and firm, being available at a time of crisis, were the most important criteria in the selection of a private bank. In contrast, Riggal (1980) confirmed that the convenience factor was most important for bank consumers followed by friends' suggestions and low service charges. In addition, Zeithaml et al. (1996) demonstrated the existence of a positive relationship between commitment and behavioural intentions, which implied greater chances of AST behaviour. Moreover, consequences of relationship efforts on consumers' behavioural intentions can be viewed as signals of retention or defection (Liang & Wang, 2007). Thus, the following hypothesis can be formulated.

H10: Consumers' switching intentions have a negative impact on their AST.

One important source of constraints that consumers face in the case of switching-related behaviours is perceived SCs, which makes it costly for the consumers to switch to another supplier (Fornell, 1992; Fornell & Wernerfelt, 1987). For example, Bansal and Taylor (1999) demonstrated that the lower the SCs, the more successfully consumers were predicted to engage in switching behaviour. In the context of banks, Ghouri et al. (2010) analysed the relationship between unfavourable perceptions of price, unfavourable bank reputation, poor SQ, low SCs, and consumers' switching, and found that there existed a positive and significant relationship between these factors and consumer's switching. Sathish, Kumar, Naveen, and Jeevanantham (2011) revealed that poor network coverage, frequent network problems, high call rates, and influence from family and friends were the most important factors affecting switching behaviour of consumers. However, Durukan et al. (2011) demonstrated that there was no relationship between the awareness of consumers regarding MNP and their switching. Bansal et al. (2005) asserted that service switching was influenced less by consumer evaluation of service provider characteristics and service experience than by alternative attractiveness as well as personal and social factors. Holloway, Wang, and Beatty (2009) found that following a failed service recovery, consumers with high relationship quality would experience a greater decline in their intentions to repurchase from the service provider in the future. Keaveney (1995) also publicized that core service failures, service encounter failures, and inconvenience caused consumers to switch services. Further, Shin and Kim (2008) revealed that higher levels of perceived switching barriers were associated with higher levels of switching behaviour, whereas Wieringa and Verhoef (2007) found lower relationship quality to be significantly related to more switching. Therefore, the following hypothesis can be formulated.

H11a: Various predictive switching factors (namely, awareness of MNP application, SQ, RQ, perceived price, reputation and image of the operator, ATS, PEOU, and PU and SCs) significantly influence ASW.

Customer loyalty is defined as consumer's intent to stay with an organization (Zeithaml et al., 1996). Perceived SQ, CS, and loyalty have been identified as key factors in banking and other service industries (Dick & Basu, 1994; Lewis, 1993). In this context, Bloemer et al. (1998) revealed that image of a bank did not have a direct positive effect on loyalty while quality had a direct and indirect effect on loyalty, where the indirect influence was via satisfaction. De Matos, Henrique, and Rosa (2009) found that SC was a significant antecedent of both attitudinal and behavioural loyalty, with a strong influence on attitudinal loyalty. Yen (2010) showed that high perceived risk affected the relationship of SCs and consumer loyalty. Jones et al. (2000) observed that stronger interpersonal relationships were associated with higher repurchase intentions. Bell et al. (2005) found that the effect of technical SQ on consumer loyalty was much greater than the effect of functional SQ. Dongjin, Shenghui, and Kai (2008) stated that perceived value positively influenced consumers' repurchase intentions. Goala (2007) reported that calculative commitment resisted switching when there were inappropriate employee responses to service failures, a pricing problem, and a service encounter failure. In addition, Seo, Ranganathan, and Babad (2008) found that more complex service plan, more sophisticated handset, longer consumer association, and higher connectivity quality of wireless were positively related to consumer retention behaviour. Hence, the following hypothesis can be formulated.

H11b: Various predictive switching factors (namely, awareness of MNP application, SQ, RQ, perceived price, reputation and image of the operator, ATS, PEOU, and PU and SCs) significantly influence AST.

RESEARCH DESIGN AND METHODOLOGY

The present study examines the factors that lead to consumers' switching intentions from one mobile service provider to another after the introduction of MNP. The data were collected through structured instrument. The items of various constructs in the instrument, covering all the aspects of consumers switching intentions in mobile telecommunication services, were extracted from the previous literature (Exhibit 1).

new services being introduced in the market, have complete awareness, and are adaptive about these new services/offerings (Amin, Ahmad, & Huib, 2012). They like creativity and innovation and easily move from one product to another. In fact, preferring new and innovative product is the core attribute associated with youngsters (Stanton, Michael, & Bruce, 1994). On the contrary, entrepreneurs, professionals, salaried persons, and senior citizens are less interested in new/innovative/value-added services being introduced, as

Exhibit 1: Item Generation of Switching Factors

S. No.	Dimensions	Source of Item Generation
1.	Awareness about MNP	Rousseau and Venter (1993)
2.	Service quality	Crosby, Evans, and Cowless (1990); Taylor and Baker (1994); Sharma and Patterson (1999); Hartline and Ferrell (1996)
3.	Relational quality	Moorman, Zaltman, and Deshpande (1992)
4.	Satisfaction	Oliver (1980); Goodwin and Ross (1992)
5.	Trust	Larzelere and Huston (1980); Morgan and Hunt (1994)
6.	Commitment	Lassar, Mittal, and Sharma (1995); Garbarino and Johnson (1999); Kumar, Scheer, and Steenkamp (1995); Verhoef, Franses, and Hoekstra (2002)
7.	Pricing	Gerpott et al. (2001); Bansal et al. (2005)
8.	Reputation and Image	Aaker and Keller (1990); Smith and Park (1992); Loken and John (1993); Gupta (2002)
9.	Attitude towards switching	Bansal and Taylor (1999)
10.	Ease of use and Usefulness	Davis, Bagozzi, and Warshaw (1989); Nysveen et al. (2005)
11.	Switching costs	Burnham et al. (2003); Jones, Mothersbaugh, and Beatty (2002)
12.	Actual switching	Gerrard and Cunningham (2004); Hess et al. (2003); Grace and O'Cass (2003)
13.	Actual staying	Colgate and Lang (2001); Ganesh, Arnold, and Reynolds (2000); Keaveney (1995)

Source: Literature survey.

To enhance the validity of the proposed model, a pretest was conducted before the final survey. For pilot testing, students of a North Indian university were contacted on convenience basis. After analysing the data collected through pilot survey, it was realized that one item of SC, namely, 'don't know what we will end up having to deal with while switching', was found ambiguous and therefore not considered for final survey. Thereafter, the instrument was finalized, which consisted of demographic profile, general information, and various aspects of consumer switching intentions. A 5-point Likert scale ranging from 'strongly agree' (5) to 'strongly disagree' (1) was employed for each item. For the final survey, the respondents were the regular postgraduate students of the same university, considering that youngsters are always in search of they use their mobile phones mainly for professional purposes. These students were selected after obtaining department-wise list of students from the nodal section of the university and thereafter arranging all the departments in an alphabetical order. According to the list, the total number of regular students as on 31 December 2011 was 2,804. After arranging departments alphabetically, the sample size was calculated using the formula given by Burns and Bush (2006, p. 378) and the sample size obtained was 260. Out of 260 students, who were personally approached, 242 returned properly filled-in instruments, thus providing a response rate of 93.07 per cent.

Outliers were detected and removed before analysing the data. Normality of the data was also established, as normality is a pre-requisite for many statistical tests. In order to find out the perceptual gap between two groups of telecommunication consumers (i.e., male and female; prepaid and post-paid; consumers who switched with MNP or without MNP), independent samples *t*-test was applied. Confirmatory factor analysis (CFA) was used to test the adequacy of the measurement model (Anderson & Gerbing, 1988). The adequacy of the measurement model was evaluated on the criteria of convergent validity, discriminant validity, and reliability. Finally, for testing the hypotheses, SEM was used, which is a comprehensive statistical approach to test relationships among observed and latent variables (Hoyle, 1995).

ANALYSIS AND DISCUSSION

A preliminary analysis of the data revealed that the final sample consisted of 231 students (after removing 11 outliers), out of which 36 per cent were males and remaining females; 29 per cent students were from pure sciences and 71 per cent from non-sciences. Further, considering previous qualification, 43 per cent had BA, 37 per cent had BSc and 13 per cent BCom (Table 3). Among these students, Airtel had the maximum number of subscribers (28%), followed by Aircel (22%), Vodafone (21%), Reliance (10%), etc. The reasons for being attached to their current service provider included better network coverage, low call rates, and low internet charges. About 88 per cent sampled students had prepaid connections and 44 per cent had already switched their previous service provider—16 per cent respondents switched from Airtel and among them, only 5 per cent switched with MNP and 40 per cent without MNP. When asked about the reasons for not adopting MNP, 28 per cent expressed unavailability at that time, 17 per cent felt that the MNP process was time-consuming, and 11 per cent did not adopt because of inconvenience caused by MNP and lack of information about it. Further, 29 per cent telecom users wanted to switch their current service provider in the future and they intended to subscribe to the services of BSNL (a government organization). Most of the respondents (71%) did not want to switch their service provider (Khan, Shaikh, & Shah, 2012) just because they were content with their services, call rates, network coverage, etc.

Table 3: Demographic Profile of Respondents

Respondent Profile	Number	Percentage
Gender		
Male	84	36
Female	147	64
Department		
Sciences	67	29
Non-sciences	164	71
Semester		
First	113	49
Third	104	45
Fifth	14	6
Previous Qualification		
BA	99	43
BSc	85	37
BCom	30	13
Others	17	7
Father's Occupation		
Government employee	111	48
Businessman	95	41
Ex-servicemen	25	11

Source: Primary data collected from the customers of mobile services.

In order to weed out the perceptual gap between two groups, independent samples t-test was applied. The results of t-test reveal that there exists no significant difference in the opinions of male and female, prepaid and post-paid consumers, and also the consumers who switched with MNP and without MNP with regard to factors predicting consumers' switching/staying intentions, as significance two-tailed value is above 0.05 for majority of these factors (Table 4).

Table 4: Descriptive Statistics of Switching Intentions

Title	Description	Mean	Standardized Regression Weights (SRW)	<i>t</i> -value	Alpha	Composite Reliability (CR)
1.	Awareness about MNP				0.527	0.94
AAMNP2	You are completely aware of MNP	2.94	0.869	2.277		
AAMNP3	You know the costs of MNP	2.75	0.449	7.627		

Table 4 continued

 $Table\ 4\ continued$

			Standardized Regression			Composite Reliability
Title	Description	Mean	Weights (SRW)	<i>t</i> -value	Alpha	(CR)
AAMNP4	You exactly know the benefits of MNP	3.33	1.000	*		
AAMNP5	You know the entire porting procedure	2.16	0.492	*		
AAMNP8	MNP improves service quality	3.73	0.664	2.753		
AAMNP9	MNP leads to introduction of new or innovative services	3.82	0.624	*		
2.	Service Quality				0.923	0.99
SQ1	The quality of the network, based on your overall experience in using the network for phone calls, is satisfactory	3.31	0.720	11.054		
5Q2	Call quality of the network is better than other telecom service providers	3.46	0.803	13.809		
SQ3	The quality of the customer care services of the network is highly motivated/supportive	3.35	0.726	12.066		
SQ5	You are satisfied with your current service provider's overall service quality	3.35	0.773	13.108		
SQ6	Your current service provider is performing well for you	3.52	0.803	13.818		
SQ7	Your telecom operator provides services at time	3.28	0.704	11.615		
SQ8	High reliability in the delivery of services	3.40	0.712	11.787		
SQ10	Your current service provider ensures satisfactory services	3.49	0.753	12.663		
SQ11	Your mobile service provider provides quality services that satisfy your need	3.42	0.808	*		
3.	Relational Quality				0.963	0.99
SA .	Satisfaction					
RQS1	You are satisfied with your service provider	3.38	0.662	11.370		
RQS3	Your service provider ensures quality services at right time	3.30	0.682	11.845		
RQS4	Overall, you feel that the service response you receive is good	3.41	0.794	14.821		
RQS5	You are satisfied with the service provider's existing schemes	3.30	0.753	13.649		
RQS6	You are satisfied with the way service provider handles your problems	3.28	0.772	14.199		
RQS7	You are satisfied with the services given for continuous dealings	3.26	0.764	13.950		
RQS8	You are satisfied with the availability of information about services, call rates, and processing fees	3.35	0.745	13.444		
RQS10	You complain your friends and relatives about this service provider (R)	3.54	0.686	11.948		
RQS11	Current service provider meets all your expected requirements	3.24	0.703	12.352		
RQS12	The services satisfy your telecom needs	3.23	0.732	*		
SB	Trust					
RQT1	You trust your current service provider	3.30	0.747	13.616		
RQT2	You feel a sense of loyalty towards your current service provider	3.40	0.844	16.589		
RQT3	The performance of the current service provider always meets your expectations	3.34	0.752	13.763		
RQT4	Service provider can be counted on to produce good results.	3.31	0.743	13.509		
RQT6	You are concerned that the performance will not be worth the money (R)	3.28	0.683	11.977		
RQT7	Your service provider is honest and truthful with you	3.24	0.728	13.115		
RQT8	Your service provider treats you fairly and justly	3.42	0.731	13.208		
RQT10	You can trust your service provider completely	3.28	0.774	14.390		
RQT11	Your service provider is sincere in the delivery of mobile services	3.61	0.760	14.003		
RQT12	You can rely on your operator to serve well	3.19	0.679	11.852		
RQT13	You can trust the procedural system of your operator	3.33	0.805	15.328		

Table 4 continued

 $Table\ 4\ continued$

Tial .	Description	Na	Standardized Regression	Augles	A11	Composite Reliability
Title	Description	Mean	Weights (SRW)	<i>t</i> -value *	Alpha	(CR)
RQT14	Your operator is reliable because it is mainly concerned with your interest	3.43	0.707	<u>*</u>		
3C	Commitment					
RQC1	You feel committed to your operator	3.15	0.782	13.747		
RQC2	You feel a strong sense of belongingness to your operator	3.44	0.844	14.146		
RQC3	You feel pleasure in being a customer of your operator	3.42	0.773	13.535		
RQC4	The operator takes the best care of its customers	3.42	0.814	14.582		
RQC5	Your operator deserves your loyalty	3.39	0.773	13.519		
RQC6	Even if it is to your advantage, you do not feel like leaving your current service provider	3.16	0.615	*		
4.	Price				0.889	0.98
P1	You pay a better price for services to your service provider than you would pay to competitors	3.16	0.611	8.675		
P2	The cost of services at your service provider is lower than the competitors	3.36	0.752	10.601		
P3	The call rates of other operators are low (R)	3.63	0.822	9.995		
P4	Every year your telecom company raises the call rates	3.34	0.511	6.921		
P5	Prices, tariffs, and conditions of your access are affordable or acceptable	3.27	0.766	10.790		
P6	Prices charged for connectivity from your access to the fixed network are reasonable	3.32	0.813	11.397		
P7	Prices of value added services are not according to your expectations (R)	3.35	0.726	*		
P8	Your service provider does not make frequent changes in the local, STD, and ISD charges	3.29	0.585	8.273		
P9	You think that prices for the mobile services are reasonable	3.31	0.716	10.100		
P10	You think that the monthly bills for using services are reasonable	3.45	0.709	*		
5.	Reputation				0.896	0.98
RI1	You simply like, admire, and respect or trust your telecom company	3.27	0.694	9.465		
RI2	You think that the company sells services that are of high quality, innovative, reliable, or good value for money	3.45	0.699	9.523		
RI4	Your service provider offers extra talk time	3.14	0.671	9.180		
RI5	Your service provider gives attractive advertisements of its services that motivate you	3.39	0.688	9.387		
RI6	Positive image of your service provider enhances brand image	3.41	0.657	9.006		
RI8	Overall, you are very positive towards your brand	3.30	0.674	9.221		
RI9	You are quite satisfied with the present service provider	3.43	0.800	10.706		
RI10	You associate positive things with brand	3.32	0.735	9.957		
RI11	Your current service provider educates you about various features of a service offer	3.49	0.677	*		
6.	Attitude towards Switching				0.885	0.98
	After MNP, switching from 'current service provider' to a 'new service provider' would be					
ATS1	A good idea (R)	3.47	0.839	9.459		
ATS2	Useful (R)	3.08	0.819	10.382		
ATS3	Beneficial (R)	3.06	0.755	8.892		
ATS4	Wise decision (R)	3.26	0.724	8.641		
ATS5	Pleasant (R)	3.18	0.672	9.679		

Table 4 continued

Table 4 continued

* *****			Standardized Regression			Composite Reliability
Title	Description	Mean	Weights (SRW)	<i>t</i> -value	Alpha	(CR)
ATS6	Desirable (R)	3.25	0.615	*		
<i>1</i> .	Perceived Ease of Use and Perceived Usefulness				0.915	0.98
PEOUPU1	Using this service provider saves time	3.32	0.684	11.071		
PEOUPU2	Using this service provider improves your efficiency	3.12	0.878	11.512		
PEOUPU3	Services are useful to you	3.40	0.758	16.750		
PEOUPU5	Using this service provider helps you to accomplish things more quickly	3.29	0.663	14.708		
PEOUPU6	Using this service provider helps you to perform things more conveniently	3.40	0.810	14.733		
PEOUPU7	You derive maximum benefits out of your current service provider's policies		0.811	*		
PEOUPU8	Learning to use service of current service provider is easy to you	3.43	0.750	13.132		
PEOUPU9	Your interaction with service provider is clear and understandable	3.51	0.748	*		
В.	Switching Cost				0.869	0.98
SC1	Switching to a new service provider involves a huge cost	3.13	0.666	9.646		
SC2	Services offered by other service providers would not match with your expectations	3.29	0.700	10.147		
SC3	It is difficult to compare other service providers	3.26	0.693	10.052		
SC5	Switching to a new service provider will probably involve hidden costs/charges	3.43	0.647	9.361		
SC8	Evaluating other service providers amounts to be a time- consuming exercise	3.31	0.710	10.306		
SC11	To get information regarding how new service provider works would be easy (R)	3.47	0.806	5.193		
SC12	It takes time to understand the steps of switching to a new service provider	3.49	0.541	11.682		
SC13	The process of being comfortable with a new service is easy (R)	3.39	0.734	*		
SC14	Lot of formalities involved in switching to a new service provider	3.68	0.827	*		
9.	Actual Switching				0.762	0.94
ASW2	Low service quality always induces you to switch service provider	2.91	0.702	7.148		
ASW3	Low satisfaction, low trust, and low commitment force you to switch the current telecom operator	2.75	0.735	7.264		
ASW4	Unfavourable service prices always motivate you to leave the service provider/operator	2.61	0.668	6.980		
ASW8	If the service is difficult to use and you consider it as useless, you would switch the operator	3.04	0.578	*		
10.	Actual Staying				0.895	0.98
AST1	You are confident that your service provider offers the better service	3.26	0.715	10.692		
AST2	Your current service provider treats you very well	3.37	0.786	11.792		
AST3	You feel a sense of loyalty	3.29	0.709	10.501		
AST4	Too much botheration in terms of time and efforts, if you switch	3.46	0.650	9.505		
AST5	You feel a bond with your current service provider	3.35	0.710	10.600		
AST6	Your complaints are resolved satisfactorily	3.44	0.774	11.660		
AST7	Your service provider or operator pays special attention on service failures	3.20	0,768	*		

Source: Primary data collected from the customers of mobile services.

Notes: (1) R refers to reverse/negative item in the instrument for cross-checking of respondents' response. (2) * is used to specify the blank box for items in Table 4 (i.e., where we constrained it as 1 in *t*-value calculations).

A CFA was conducted through AMOS (16.0), using maximum-likelihood estimation (Joreskog & Sorbom, 1993), on the major factors of consumers' switching intentions (Table 4). In order to assess the fitness of the models, multiple fit indices have been reported, namely, χ^2/df , goodness of fit index (GFI), adjusted goodness of fit index (AGFI), comparative fit index (CFI), normed-fit index (NFI), Tucker-Lewis index (TLI), Root Mean Square Residual (RMR), and root mean square error of approximation (RMSEA). All these indices reveal that measurement models are reasonably consistent with the data, that is, χ^2/df is less than 5.00; GFI, AGFI, CFI, NFI, and TLI are more than 0.90; RMR and RMSEA are less than 0.08 (Bentler, 1990; Taylor & Todd, 1995) (Table 5). The validity and reliability of the measures were assessed through standardized regression weights (SRWs) and variance extracted (Table 6). Construct validity of each construct was calculated as it directly affected the substantive models being tested (Bagozzi & Edwards, 1998). Factor loadings above 0.50 are generally considered the minimal level at which convergent validity could be suggested (Bagozzi & Yi, 1988) and in the present study, convergent validity of each construct gets established, as majority of loadings are above 0.50 (Table 6). Another criterion being used for assessing convergent validity is average variance extracted (AVE), which came out to be above 0.50 (Table 7). In addition to assessing the validity of the measure, reliability of each construct was assessed through Cronbach's alpha co-efficient and the value above 0.70 signifies that the data are reliable (Nunnally, 1978).

Table 6: Standardized Regression Weights

Relationships	SIs	ASW	AST
AAMNP	0.16	0.050	-0.051
SQ	0.91	0.101	-0.064
RQS	0.93	0.231	-0.223
RQT	0.95	0.703	-0.782
RQC	0.86	0.061	-0.072
P	0.90	0.092	-0.103
RI	0.91	0.039	-0.176
ATS	0.51	0.199	-0.076
PEOU	0.91	0.240	-0.226
PU	0.86	0.013	-0.133
SC	-0.82	-0.020	0.248

Source: Primary data collected from the customers of mobile services.

Note: SIs= Switching Intentions.

Table 7: Reliability and Validity of Constructs

Constructs	Convergent Validity/AVE	Composite Reliability	Cronbach's Alpha
AAMNP	0.51	0.94	0.527
SQ	0.57	0.99	0.923
RQ (S, T, C)	0.51	0.99	0.963
Р	0.51	0.98	0.889
RI	0.49	0.98	0.896
ATS	0.56	0.98	0.885
PEOU and PU	0.59	0.98	0.915
SC	0.50	0.98	0.869
ASW	0.45	0.94	0.762
AST	0.55	0.98	0.895

Source: Primary data collected from the customers of mobile services.

Table 5: Fit Indices of Measurement Models

Constructs	CMIN	<i>p</i> -values	CMIN/df	GFI	AGFI	RMR	RMSEA	NFI	TLI	CFI
AAMNP	13.725	0.089	1.716	0.980	0.941	0.068	0.056	0.925	0.936	0.969
SQ	60.995	0.000	2.259	0.947	0.912	0.045	0.074	0.951	0.962	0.972
RQ (Satisfaction, trust, commitment)	641.931	0.000	1.855	0.836	0.808	0.095	0.061	0.869	0.928	0.934
Price (P)	76.609	0.000	2.321	0.941	0.902	0.058	0.076	0.927	0.941	0.957
Reputation (RI)	50.538	0.004	1.872	0.955	0.924	0.048	0.062	0.946	0.965	0.974
ATS	15.288	0.032	2.184	0.979	0.938	0.036	0.072	0.978	0.974	0.988
PEOU and PU	35.916	0.016	1.796	0.964	0.935	0.041	0.059	0.967	0.979	0.985
SC	51.809	0.002	1.993	0.953	0.919	0.057	0.066	0.937	0.955	0.967
ASW	31.188	0.203	1.594	0.993	0.967	0.032	0.051	0.986	0.984	0.995
AST	11.966	0.366	1.088	0.986	0.963	0.033	0.020	0.986	0.998	0.999

Source: Primary data collected from the customers of mobile services.

Note: CMIN is the value of Chi-square or Minimum Discrepancy Chi-square.

Another way of establishing reliability is through composite reliability (CR), which came out to be above 0.90, thus indicating the internal consistency of the data (Table 7). Discriminant validity can be statistically demonstrated using a Chi-square difference test to each of the possible pairs of the measurement scales. The results of the test reveal that for all the pairs of construct, the Chi-square values are significant at 0.05 level ($\chi^2 > 3.84$, df = 1), thereby indicating discriminant validity

of constructs in all possible pairings (Ahire, Golhar, & Waller, 1996). As the correlation matrix reveals a high degree of relationship among the factors predicting consumers' switching intentions, discriminant validity could not be established by comparing AVE of the construct with the squared correlation between the pair of constructs (Table 8). Since most of the correlation coefficients are above 0.50, theoretical restrictions in achieving discriminant validity are obvious.

Table 8: Correlation Matrix of Predictive Switching Factors

		AAMNP	SQ	RQS	RQT	RQC	Р	RI	ATS	PU	PEOU	SC	ASW	AST
AAMNP	Pearson correlation	1												
	Sig. (two-tailed)													
	N	231												
SQ	Pearson correlation	0.118	1											
	Sig. (two-tailed)	0.074												
	N	231	231											
RQS	Pearson correlation	0.131*	0.733**	1										
	Sig. (two-tailed)	0.047	0.000											
	N	231	231	231										
RQT	Pearson correlation	0.136*	0729**	0.757**	1									
	Sig. (two-tailed)	0.039	0.000	0.000										
	N	231	231	231	231									
RQC	Pearson correlation	0.128	0.483**	0.498**	0.487**	1								
	Sig. (two-tailed)	0.052	0.000	0.000	0.000									
	N	231	231	231	231	231								
P	Pearson Correlation	0.179**	0.586**	0.646**	0.637**	0.476**	1							
	Sig. (two-tailed)	0.006	0.000	0.000	0.000	0.000								
	N	231	231	231	231	231	231							
RI	Pearson correlation	0.170**	0.614**	0.595**	0.592**	0.396**	0.553**	1						
	Sig. (two-tailed)	0.010	0.000	0.000	0.000	0.000	0.000							
	N	231	231	231	231	231	231	231						
ATS	Pearson correlation	-0.048	0.466**	0.515**	0.451**	0.398**	0.546**	0.441**	1					
	Sig. (two-tailed)	0.464	0.000	0.000	0.000	0.000	0.000	0.000						
	N	231	231	231	231	231	231	231	231					
PU	Pearson Correlation	0.185**	0.629**	0.654**	0.664**	0.454**	0.604**	0.470**	0.440**	1				
	Sig. (two-tailed)	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000					
	N	231	231	231	231	231	231	231	231	231				
PEOU	Pearson correlation	0.145*	0.480^{**}	0.518**	0.510**	0.365**	0.488**	0.585**	0.390**	0.593**	1			
	Sig. (two-tailed)	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
	N	231	231	231	231	231	231	231	231	231	231			
SC	Pearson correlation	0.107	0.525**	0.747**	0.604**	0.446**	0.587**	0.417**	0.479**	0.458**	0.469**	1		
	Sig. (two-tailed)	0.106	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
	N	231	231	231	231	231	231	231	231	231	231	231		
ASW	Pearson correlation	-0.022	0.425**	0.557**	0.549**	0.374**	0.565**	0.417**	0.515**	0.500**	0.447**	0.430**	1	
	Sig. (two-tailed)	0.742	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
	N	231	231	231	231	231	231	231	231	231	231	231	231	
AST	Pearson correlation	0.156*	0.452**	0.529**	0.489**	0.528**	0.457**	0.452**	0.231**	0.473**	0.472**	0.588**	0.565**	1
	Sig. (two-tailed)	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	N	231	231	231	231	231	231	231	231	231	231	231	231	

Source: Primary data collected from the customers of mobile services.

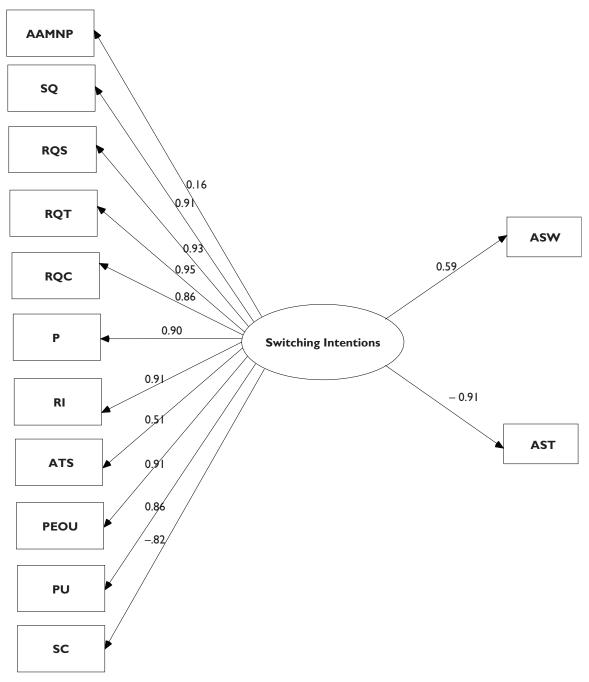
Notes: *Correlation is significant at the 0.05 level (two-tailed).

^{**}Correlation is significant at the 0.01 level (two-tailed).

Table 6 shows the direct effects of predictive switching factors on the switching intentions, AST, and ASW. The results reveal that the highest contributing variable towards switching intentions and AST/ASW is trust (SI: 0.95, ASW:0.703, AST: -0.782). Hence, trust towards the service provider plays a significant role in influencing not only the switching intentions but also AST and ASW.

To test the hypothesized relationships in the model (Figure 1), SEM was conducted using AMOS (16.0). The structural model was examined to test the hypotheses depicting relationship among constructs (Table 9). It becomes evident from the SEM results that consumers' awareness regarding MNP has no effect on their intentions to switch the current operator (β = 0.16, p = 0.018);

Figure 1: Structural Model of Predictive Switching Factors for MNP



Source: Literature survey.

Notes: AAMNP—Awareness about mobile number portability; SQ—service quality; RQS—relational quality satisfaction; RQT—relational quality trust; RQC—relational quality commitment; P—price; RI—reputation and image; ATS—attitude towards switching; PEOU—perceived ease of use; PU—perceived usefulness; SC—switching costs; ASW—actual switching; and AST—actual staying.

thus, H1 stands accepted. This implies that consumers with complete information regarding MNP do not intend to switch current operator, possibly, because of switching barriers (i.e., SCs). In this context, Durukan et al. (2011) revealed that there was no meaningful relationship between 'awareness about MNP' and 'switching intentions'. Besides the proposed model, two other models, namely, formative model and high-order formative model, were also tested. The fit indices reveal that the proposed model is the best fit model as compared to the other two models (Table 9).

The results of SEM analysis also depict that unfavourable reputation significantly affects consumers' switching intentions (β = 0.91); therefore, H5 also stands accepted. Hence, consumers are more inclined to purchase the product/services of those companies whom they perceive as having favourable reputation among their competitors (Nguyen & Leblanc, 2001).

It also becomes clear from SEM results that consumers' positive ATS significantly predicts their switching intentions ($\beta = 0.51$, p = 0.00), which leads to the acceptance

Table 9: Overall Fitness of Structural Model

Models	CMIN/df	GFI	AGFI	CFI	NFI	TLI	RMR	RMSEA
Proposed model	2.424	0.915	0.869	0.975	0.958	0.967	0.029	0.079
Formative model	18.529	0.901	0.825	0.872	0.846	0.861	0.117	0.276
Higher order formative model	7.485	0.826	0.712	0.763	0.742	0.754	0.055	0.168

Source: Primary data collected from the customers of mobile services.

It is again clear from the SEM results that lower SQ significantly influences consumers' switching intentions (β = 0.91, p = 0.00); hence, H2 is also accepted. In this regard, Saeed et al. (2011) demonstrated a positive association between poor SQ and switching intentions.

The SEM analysis further reveals that low satisfaction (β = 0.93), low trust (β = 0.95), and low commitment (β = 0.86) are the significant factors influencing consumers' switching intentions. Hence, on the basis of these results, H3 stands accepted. The negative relationship between satisfaction with a service provider and switching intentions is well established (e.g., Bansal & Taylor, 1999; Cronin, Brady, & Hult, 2000). This signifies that if a consumer is not satisfied with the services of his/her network operator, then he/she may think of leaving that service provider. Also, if consumers trust the products/ services of their current service provider, their intention to switch that service provider is low. In this regard, Anton et al. (2007) revealed a significant relationship between low commitment towards service provider and switching intentions. This explains that if consumers are highly committed to their service provider, their intention to leave that service provider is also low.

The direct effect of unfavourable prices on consumers' switching intentions (β = 0.90) is significant and positive, which also leads to the acceptance of this hypothesis (H4). Hence, when consumers are dissatisfied with the value for money or perceive the price to be unfair, their intentions will be stronger to switch the service provider (Campbell, 1999).

of H6. This finds support from Bansal and Taylor (1999), who stated that ATS was the most influential determinant of switching intentions. Hence, if a consumer is holding favourable ATS, he/she will be more likely to switch his current service provider (Desbarats, 1983).

The model further explains that PEOU (β = 0.91) and PU (β = 0.86) significantly predict consumers' switching from one service provider to another, which supports H7. Thus, when consumers perceive the services of current operator as easy to use, their intentions to leave the provider will be low and, in contrast, if they perceive that services are difficult to use, they intend to switch current operator (Nysveen et al., 2005).

The SEM results also justify that lower SCs significantly lead to higher consumers' switching intentions ($\beta = -0.82$, p = 0.00); therefore, H8 stands accepted. This demonstrates that if SCs are low, consumers' switching intentions will be high. The direct effect of consumers' switching intentions on ASW behaviour of consumers is also significant and positive ($\beta = 0.59$), which leads to the acceptance of H9. This implies that if consumers have strong intention to leave their service provider, may be because of low SQ, unfavourable prices, low commitment, etc., they will definitely switch the current operator. The consequences of relationship efforts on consumers' behavioural intentions can be viewed as signals of retention or defection (Liang & Wang, 2007).

Again, it is clear from SEM analysis that consumers' switching intentions negatively influence AST

behaviour of consumers or their loyalty with current operator ($\beta = -0.91$, p = 0.00). All this leads to the acceptance of H10. If consumers are very much satisfied with the quality and pricing of services, their intention to leave current operator decreases, which signifies consumers' loyalty with their operator.

However, SEM analysis depicts that except for 'trust towards the service provider', other predictive switching factors do not significantly contribute towards ASW and AST behaviour of consumers; hence H11a and H11b stand rejected. The results reveal that predictive switching factors do not have direct significant effect on ASW or AST behaviour; this relationship is fully mediated by the switching intentions of the consumers. On the contrary, Khan et al. (2010) stated that there was a significant relationship between unfavourable perception of price, unfavourable bank reputation, poor SQ, low SCs on the one hand and consumers switching behaviour on the other. Further, according to Holloway et al. (2009), following a failed service recovery, consumers with high relationship quality would experience a greater decline in their intentions to repurchase from the service provider in the future.

After running SEM, it was found that the overall fit measures provided a good fit for the hypothesized causal model (Bagozzi & Yi, 1988; Baumgartner & Homburg, 1996). The GFI (0.915), AGFI (0.869), RMSEA (0.07) and RMSR (0.03) are all within the acceptable range. The other indices like NFI, CFI, and TLI are all above 0.90. As these values are above 0.90, it can be concluded that the model exhibits a reasonable fit to the data (Table 9).

CONCLUSION

The availability of a number of subscriber options for consumers and varied tariff rates of each player motivate the consumers to switch between service providers. MNP permits to switch operators without changing his/her telephone number. The present study focuses on consumers' switching intentions after the introduction of MNP, factors affecting consumers' switching intentions, and also the relationship between switching intentions and ASW or AST behaviour of consumers.

The findings of the present study reveal that after the implementation of MNP, consumers' switching intentions have not enhanced, as they appear to be satisfied with the services of their current service provider; those

who have already switched, did so without MNP. Also, the consumers, who intend to switch their operator in future, want to do so without MNP, as MNP involves too much cost, time, and effort.

The study findings also reveal that the factors such as SQ, RQ (i.e., satisfaction, trust, and commitment), price, reputation and image, ATS, PEOU and PU, and SCs significantly affect consumers' switching intentions (Bansal & Taylor, 2002; Davis, 1989; Hess et al., 2003; Ping, 1993). The study has also examined the relationship between AAMNP application and switching intentions and the result finds no significant relationship between the two, a finding that is also supported by Durukan et al. (2011). Along with this, the study findings demonstrate that various switching factors significantly affect ASW and AST behaviour of consumers (Holloway et al., 2009; Yen, 2010).

The study suggests that consumers' switching intentions predict both ASW and AST behaviour of consumers. However, switching intentions better predict AST, that is, consumer loyalty, more than ASW behaviour. This implies that even if consumers have intentions to switch their current operator, they would not switch because of SCs involved in terms of time, money, and effort. This is consistent with the findings of Chuang (2011) who found that SC was the most significant factor for retaining the subscribers. Thus, it can be concluded that with the introduction of MNP, consumers' switching intentions have not increased and most of them want to remain with their current operator.

MANAGERIAL IMPLICATIONS

In order to develop socially desirable, legally justifiable, industrially feasible, and economically viable policy, it is advised that regulators should not only enforce MNP, but they should try to reduce the switching barriers and enhance consumers' awareness of MNP, so that subscribers can take advantage of this system. By understanding consumers' switching intentions, regulators can ensure MNP's effective implementation, which will also make it more convenient for end users to switch current operator if the services do not meet their expectations. Thus, government as well as telecom operators should organize programmes, seminars, informative advertisements, and other communication activities about the MNP system to help in shortening and simplifying the procedure of reaching the MNP targets. The operators should open separate

counters in their retail outlets for providing information to each and every consumer about the benefits and costs of MNP service.

The results of the study reveal that the factor contributing more towards ASW is the 'trust towards the service provider'; therefore, the service provider should extend consistent and reliable services so that the consumers repose confidence in that network operator. Also these operators should resort to improving SQ, reducing prices (call rates), providing more value-added services, etc., as a mechanism to retain the current base of consumers. This shall also improve the future prospects of the service provider in the long run.

Delaying tactics and other measures used by the operator to prevent the consumers from switching implies that he or she is not properly implementing the MNP services. The government should issue show cause notice to these operators on violating the laws relating to MNP. TRAI should identify some possible measures to improve communication between the parties involved in the MNP process. One way to improve this communication is to reduce the amount of messages being exchanged between the recipient and the donors, for example, by combining execution and validation messages. The study also reveals that one reason why the consumers are not adopting MNP is the paper work involved that consumes too much of their time. To avoid this problem, TRAI should define the stages in the porting process so that operators do not misuse their position to create unnecessary delays. At present, very few telecom companies provide MNP services in India; hence, the government should take necessary steps or frame strict policies regarding mandatory introduction of MNP. The administrative arrangement of the porting process should also be taken up by the government, as administrative arrangement is equally important like the technical arrangement, which includes porting time, porting charges, etc. Also the poorly designed systems, which are very complex or easily abused, take away the benefits that the MNP is supposed to deliver. TRAI should also fix time limits for the validation process, as majority of the respondents face problems because of the time-consuming process involved in porting. As the AAMNP is generated mainly through advertisements, friends, and relatives, it is advisable that telecom operators should offer discounts and other incentives to the person who motivates his relatives and friends to avail MNP.

The present study demonstrates various factors affecting consumers' switching intentions; hence, the

operators should attempt to strengthen these switching factors in order to prevent customers from exiting. Telecom companies should train their sales personnel for promoting new products or services, and educating and informing consumers about the new offerings so that they can avail these services with proper information and knowledge.

LIMITATIONS AND FUTURE RESEARCH

The study is conducted with limited factors affecting consumers' switching intentions, thereby excluding some more factors, namely, attractiveness of alternatives, subjective norms, service affordability, promotional offers, etc. The results of the study indicate that most of the consumers have switched from private network operator to BSNL and would prefer to subscribe to the services of BSNL in future. Therefore, research should be conducted to find out the reasons for not trusting private network operators. Our current understanding of SCs is limited to the costs involved in switching from current service provider to the new one. Future research should examine how costs associated with returning to the origin affect the decision to leave in the first place, especially in case of contractual agreements such as BSNL. The results also reveal that consumers do not favour MNP for switching their operators because companies follow delaying tactics or do not provide unique portability code. Therefore, another study should be conducted to investigate why companies are not implementing MNP properly. The concept of portability has also been recently introduced in health insurance sector. Therefore, all insurers issuing health insurance policies will allow for credit gained by the insured for pre-existing conditions in terms of waiting period when a policyholder switches from one insurer to another or from one plan to another, provided the previous policy has been maintained without break. Thus, future research can also be conducted in health insurance sector.

REFERENCES

Aaker, D.A., & Keller, K.L. (1990). Consumer evaluations of brand extensions. *Journal of Marketing*, 54(1), 27–41.

Abratt, R., & Russell, J. (1999). Relationship marketing in private banking in South Africa. *International Journal of Bank Marketing*, 17(1), 5–19.

Ahire, S.L., Golhar, D.Y., & Waller, M.A. (1996). Development and validation of TQM implementation constructs. *Decision Science*, 27(1), 23–56.

- Ajzen, I. (1991). The theory of planned behaviour. *Organisational Behaviour and Human Decision Processes*, 50(2), 179–211.
- Ajzen, I. (1999). Dual-mode processing in the pursuit of insight is no vice. *Psychological Inquiry*, 10(2), 110–112.
- Ajzen, I., & Driver, B.L. (1992). Application of the theory of planned behaviour to leisure choice. *Journal of Leisure Research*, 24(3), 207–224.
- Ajzen, I., & Fishbein, M. (1980). *Understanding attitudes* and predicting social behaviour. Englewood Cliffs, NJ: Prentice-Hall.
- Amin, S.M., Ahmad, U.N.U., & Huib, L.S. (2012). Factors contributing to customer loyalty towards telecommunication service provider. *Procedia—Social and Behavioral Sciences*, 40(December), 282–286.
- Anderson, J.C., & Gerbing, D.W. (1988). Structural equation modeling in practice: A review and recommended two-step approach. *Psychological Bulletin*, 103(3), 411–423.
- Anton, C., Camarero, C., & Carrero, M. (2007). Analysing firms' failures as determinants of consumer switching intentions. *European Journal of Marketing*, 41(1/2), 135–158.
- Armstrong, M. (1997). Competition in telecommunication. *Oxford Review of Economic Policy*, 13(1), 64–82.
- Awang, Z. (2010, June). Analysing the effects of corporate reputation on the competitiveness of telecommunication industry, using the structural equation modeling: The case of Kelantan. Proceedings of the Regional Conference on Statistical Sciences, Malaysia Institute of Statistics, Faculty of Computer and Mathematical Sciences, University Technology, MARA (UTM), Malaysia (pp. 283–396).
- Aydin, S., & Ozer, G. (2005). National customer satisfaction indices: An implementation in the Turkish mobile telephone market. *Marketing Intelligence and Planning*, 23(5), 486–504.
- Bagozzi, R.P., & Edwards, E.A. (1998). Goal setting and goal pursuit in the regulation of body weight. *Psychology and Health*, 13(4), 593–621.
- Bagozzi, R.P., & Yi, Y. (1988). On the evaluation of structural equation models. *Journal of the Academy of Marketing Science*, 16(1), 74–94.
- Bansal, H.S., & Taylor, S.F. (1999). The service provider switching model (SPSM): A model of consumer switching behaviour in the service industry. *Journal of Service Research*, 2(2), 200–218.
- Bansal, H.S., & Taylor, S.F. (2002). Investigating interactive effects in the theory of planned behaviour in a service-provider switching context. *Psychology and Marketing*, 19(5), 407–425.
- Bansal, H.S., Taylor, S.F., & James, Y.S. (2005). Migrating to new service providers: Towards a unifying framework of consumer's switching behaviours. *Journal of the Academy* of Marketing Science, 33(1), 96–115.

- Baumgartner, H., & Homburg, C. (1996). Applications of structural equation modeling in marketing and consumer research: A review. *International Journal of Research in Marketing*, 13(2), 139–161.
- Beckett, A., Hewer, P., & Howcroft, B. (2000). An exposition of consumer behaviour in the financial services industry. *International Journal of Bank Marketing*, 18(1), 15–26.
- Bell, S.J., Auh, S., & Smalley, K. (2005). Customer relationship dynamics: Service quality and customer loyalty in the context of varying levels of customer expertise and switching costs. *Journal of the Academy of Marketing Science*, 33(2), 169–183.
- Bentler, P.M. (1990). Comparative fit indexes in structural models. *Psychological Bulletin*, 107(2), 238–246.
- Bloemer, J., De Ruyter, K., & Peeters, P. (1998). Investigating drivers of bank loyalty: The complex relationship between image, service quality and satisfaction. *International Journal of Bank Marketing*, 16(7), 276–286.
- Braff, A., & Laogue, S.M. (2004). Mobile's dissatisfied customers. *McKinsey Quarterly*, *3*, 10–12.
- Buehler, S., Dewenter, R., & Haucap, J. (2006). Mobile number portability in Europe. *Telecommunications Policy*, 30(7), 385–399.
- Buehler, S., & Haucap, J. (2004). Mobile number portability. *Journal of Industry, Competition, and Trade, 4*(3), 223–238.
- Burnham, T.A., Frels, J.K., & Mahajan, V. (2003). Consumer switching costs: A typology, antecedents and consequences. *Journal of the Academy of Marketing Science*, 31(2), 109–126.
- Burns, A.C., & Bush, R.F. (2006). *Marketing research* (5th ed.). New Jersey: Pearson Education Inc.
- Campbell, A. (1999). Staying alive: Evolution, culture and women's intra-sexual aggression. *Behavioural and Brain Sciences*, 22(2), 203–252.
- Cellular Operators Association of India (COAI). (2015). National Telecom Statistics. Retrieved on 15 December, 2015 from http://www.coai.com/statistics/telecomstatistics/national
- Chen, M.F., & Wang, L.H. (2009). The moderating role of switching barriers on customer loyalty in the life insurance industry. *The Services Industries Journal*, 29(8), 1105–1123.
- Chuang, Y.F. (2011). Pull-and-suck effects in Taiwan mobile phone subscribers switching intentions. *Telecommunications Policy*, 35(2), 128–140.
- Colgate, M., & Lang, B. (2001). Switching barriers in consumer markets: An investigation of the financial services industry. *Journal of Consumer Marketing*, 18(4/5), 332–347.
- Cronin, J.J., Brady, M.K., & Hult, G.T.M. (2000). Assessing the effects of quality, value, and customer satisfaction on consumer behavioural intentions in service environments. *Journal of Retailing*, 76(2), 193–218.

- Cronin, J.J. Jr., & Taylor, S.A. (1992). Measuring service quality: A re-examination and extension. *Journal of Marketing*, 56(3), 55–68.
- Crosby, L.A., Evans, K.R., & Cowles, D. (1990). Relationship quality in services selling: An interpersonal influence perspective. *Journal of Marketing*, 54(3), 68–81.
- Davis, F.D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. *MIS Quarterly*, 13(3), 319–340.
- Davis, F.D., Bagozzi, R.P., & Warshaw, P.R. (1989). User acceptance of computer technology: A comparison of two theoretical models. *Management Science*, 35(8), 982–1003.
- De Matos, C.A., Henrique, J.L., & Rosa, F. (2009). The different roles of switching cost on the satisfaction–loyalty relationship. *International Journal of Bank Marketing*, 27(7), 506–523.
- Desbarats, J. (1983). Spatial choice and constraints on behaviour. *Annals of the Association of American Geographers*, 73(3), 340–357.
- Dick, A., & Basu, K. (1994). Customer loyalty: Toward an integrated conceptual framework. *Journal of Marketing Science*, 22(2), 99–113.
- Dodds, W.B., Monroe, K.B., & Grewal, D. (1991). Effects of price, brand, and store information on buyer's product evaluation. *Journal of Marketing Research*, 23(3), 307–319.
- Dongjin, L.I., Shenghui, A., & Kai, Y. (2008). Exploring Chinese consumer repurchasing intention for services: An empirical investigation. *Journal of Consumer Behaviour*, 7(6), 448–460.
- Duck, S.W. (1982). Topography of relationship disengagement and dissolution. In S.W. Duck (Ed.), *Personal relationships: Dissolving personal relationships (vol. 4)*. London: Academic Press.
- Durukan, T., Bozaci, I., & Dogan, T.T. (2011). Mobile portability in Turkey: An empirical analysis of consumer switching behaviour. *European Journal of Social Sciences*, 20(4), 572–585.
- East, R. (1993). Investment decisions and the theory of planned behaviour. *Journal of Economic Psychology*, 14(2), 337–375.
- Federal Communications Commission. (2005). Second report and order, declaratory ruling, and second further notice of proposed rulemaking, CC Docket No. 98–170. Retrieved 15 December, 2015 from http://www.sciencedirect.com/science/article/pii/S0736585305000626
- Fornell, C. (1992). A national customer satisfaction barometer: The Swedish experience. *Journal of Marketing*, 56(1), 6–21.
- Fornell, C., & Wernerfelt, B. (1987). Defensive marketing strategy by customer complaint management: A theoretical analysis. *Journal of Marketing Research*, 24(4), 337–346.
- Ganesh, J., Arnold, M.J., & Reynolds, K.E. (2000). Understanding the customer base of service providers:

- An examination of the difference between switchers and stayers. *Journal of Marketing*, 64(3), 65–87.
- Garbarino, E., & Johnson, M.S. (1999). The different roles of satisfaction, trust, and commitment in customer relationships. *Journal of Marketing*, 63(2), 70–87.
- Gerpott, T., Rams, W., & Schindler, A. (2001). Customer retention, loyalty, and satisfaction in the German mobile cellular telecommunications market. *Telecommunications Policy*, 25(4), 249–269.
- Gerrard, P., & Cunningham, J.B. (2004). Consumer switching behaviour in the Asia banking market. *Journal of Services Marketing*, 18(2/3), 215–223.
- Goala, G.N. (2007). Customer switching resistance: The effects of perceived equity, trust, and relationship commitment. *International Journal of Service Industry Management*, 18(5), 510–533.
- Goodwin, C., & Ross, I. (1992). Consumer responses to service failures: Influence of procedural and interactional fairness perceptions. *Journal of Business Research*, 25(2), 149–163.
- Grace, D., & O'Cass, A. (2003). Childcare services: An exploratory study of choices, switching and search behavior. *European Journal of Marketing*, *37*(1/2), 107–132.
- Gupta, S. (2002). *Strategic dimensions of corporate social responsibility as sources of competitive advantage via differentiation* (Unpublished Doctoral Dissertation). Temple University, USA.
- Hartline, M.D., & Ferrell, O.C. (1996). The management of customer contact service employees: An empirical investigation. *Journal of Marketing*, 60(4), 52–70.
- Hennig-Thurau, T., Gwinner, K.P., & Gremler, D.D. (2002). Understanding relationship marketing outcomes: An integration of relational benefits and relationship quality. *Journal of Service Research*, 4(3), 230–247.
- Hennig-Thurau, T., & Klee, A. (1997). The impact of customer satisfaction and relationship quality on customer retention: A critical re-assessment and model development. *Psychology and Marketing*, 14(8), 737–764.
- Hess, R., Ganesan, S., & Klein, K (2003). Service failure and recovery: The impact of relationship factors on customer satisfaction. *Journal of Academy of Marketing Science*, 31(2), 127–145.
- Holloway, B.B., Wang, S., & Beatty, S.E. (2009). Betrayal? Relationship quality implications in service recovery. *Journal of Services Marketing*, 23(6), 385–396.
- Hoyle, R.H. (1995). The structural equation modeling approach: Basic concepts and fundamental issues. In R.H. Hoyle (Ed.), Structural equation modeling: Concepts, issues, and applications (pp. 1–15). Thousand Oaks, CA: SAGE Publications.
- Huang, L.T., Cheng, T.C., & Farn, C.K. (2007). The mediating effect of commitment on customer loyalty towards

- E-brokerages: An enhanced investment model. *Total Quality Management & Business Excellence*, 18(7), 751–770.
- Hung, S.Y., Ku, C.Y., & Chang, C.M. (2003). Critical factors of WAP services adoption: An empirical study. *Electronic Commerce Research and Applications*, 2(1), 42–60.
- Jones, A.M., Mothersbaugh, D.L., & Beatty, E.S. (2000). Switching barriers and purchase intentions in services. *Journal of Retailing*, 76(2), 259–274.
- Jones, A.M., Mothersbaugh, D.L., & Beatty, E.S. (2002). Why customers stay: Measuring the underlying dimensions of services switching costs and managing their differential strategic outcomes. *Journal of Business Research*, 55(6), 441–450.
- Joreskog, K.G., & Sorbom, D. (1993). LISREL 8: Structural equation modeling with the SIMPLIS command language. Mooresville, IL: Scientific Software.
- Keaveney, S.M. (1995). Customer switching behaviour in service industries: An exploratory study. *Journal of Marketing*, 59(2), 71–82.
- Khan, N.R., Ghouri, A.M., Siddqui, U.A., Shaikh, A., & Alam, I. (2010). Determinants analysis of customer switching behaviour in private banking sector of Pakistan. Interdisciplinary Journal of Contemporary Research in Business, 2(7), 96–110.
- Khan, R.A., Shaikh, A.A., & Shah, S.A. (2012). Prospect of switching mobile services in Pakistan. *Journal of Emerging Trends in Computing and Information Sciences*, 3(7), 1008–1012.
- Kirmani, A., & Rao, A. (2000). No pain, no gain: A critical review of literature on signaling unobservable product quality. *Journal of Marketing*, 64(2), 66–79.
- Kumar, N., Scheer, L.K., & Steenkamp, J.E.M. (1995). The effects of supplier fairness on vulnerable resellers. *Journal of Marketing Research*, 32(1), 54–65.
- Larzelere, R.E., & Huston, T.L. (1980). Dyadic trust scale: Toward understanding interpersonal trust in close relationships. *Journal of the Marriage and the Family*, 42(3), 595–604.
- Lassar, W., Mittal, J.E., & Sharma, A. (1995). Measuring customer-based brand equity. *Journal of Consumer Marketing*, 12(4), 11–19.
- Lau, G.T., & Lee, S.H. (1999). Consumers' trust in a brand and the link to brand loyalty. *Journal of Focused Management*, 4(4), 341–370.
- Lee, M., & Cunningham, L.F. (2001). A cost-benefit approach to understanding service loyalty. *Journal of Services Marketing*, 15(2), 113–130.
- Leung, L., & Wei, R. (2000). More than just talk on the move: Uses and gratifications of the cellular phone. *Journalism and Mass Communication Quarterly*, 77(2), 308–320.
- Lewis, B.R. (1993). Service quality: Recent developments in financial services. *International Journal of Bank Marketing*, 2(6), 19–26.

- Liang, C.J., & Wang, W.H. (2007). The behavioural sequence of information education services industry in Taiwan: Relationship bonding tactics, relationship quality and behavioral loyalty. *Measuring Business Excellence*, 11(2), 62–74.
- Liang, C.J., Wang, W.H., & Farquhar, J. (2009). The influence of customer perceptions on financial performance in financial services. *International Journal of Bank Marketing*, 27(2), 129–149.
- Loken, B., & John, D.R. (1993). Diluting brand beliefs: When do brand extensions have a negative impact? *Journal of Marketing*, 57(7), 71–84.
- Lyons, S. (2009). Measuring the effects of mobile number portability on service prices. *Journal of Telecommunications Management*, 2(4), 357–368.
- Moorman, C., Zaltman, G., & Deshpande, R. (1992). Relationships between providers and users of market research: The dynamics of trust within and between organisations. *Journal of Marketing Research*, 29(3), 314–328.
- Morgan, R.M., & Hunt, S.D. (1994). The commitment-trust theory of relationship marketing. *Journal of Marketing*, 58(3), 20–38.
- Muffatto, M., & Panizzolo, R. (1995). A process based view for customer satisfaction. *International Journal of Quality and Reliability Management*, 12(9), 154–169.
- Nguyen, N., & Leblanc, G. (2001). Corporate image and corporate reputation in customers' retention decisions in services. *Journal of Retailing and Consumer Services*, 8(4), 227–236.
- Nunnally, J.C. (1978). *Psychometric theory* (2nd ed.). New York: McGraw-Hill.
- Nysveen, H., Pedersen, P.E., & Thorbjornsen, H. (2005). Intentions to use mobile services: Antecedents and cross-service comparisons. *Journal of the Academy of Marketing Science*, 33(3), 330–346.
- Oliver, R.L. (1980). A cognitive model of the antecedents and consequences of satisfaction decisions. *Journal of Marketing Research*, 17(11), 460–469.
- Oliver, R.L., & Swan, J.E. (1989). Consumer perceptions of interpersonal equity and satisfaction in transactions: A field survey approach. *Journal of Marketing*, 53(2), 21–35.
- Ping, R. (1993). The effects of satisfaction and structural constraints on retailer exiting, voice, loyalty, opportunism, and neglect. *Journal of Retailing*, 69(3), 320–352.
- Pi, W.P., & Huang, H.H. (2011). Effects of promotion on relationship quality and customer loyalty in the airline industry. *African Journal of Business Management*, 5(11), 4403–4414.
- Rahman, S., Haque, A., & Ahmad, M.I.S. (2011). Choice criteria for mobile telecom operator: Empirical investigation among Malaysian customers. *Journal of International Management Review*, 7(1), 50–57.

- Ranaweera, C., & Prabhu, J. (2003). The influence of satisfaction, trust, and switching barriers on customer retention in a continuous purchasing setting. *International Journal of Service Industry Management*, 14(3/4), 374–395.
- Rao, H. (1994). The social construction of reputation: Certification contests, legitimation, and the survival of organizations in the automobile industry. *Strategic Management Journal*, 15(S1), 29–44.
- Riggall, J. (1980). A new study: How newcomers select banks. *ABA Banking Journal*, 72(7), 93–104.
- Rousseau, G.G., & Venter, D.J.L. (1993). Measuring consumer awareness in a developing country. *Journal of Industrial Psychology*, 19(3), 6–12.
- Saeed, A., Hussain, N., & Riaz, A. (2011). Factors affecting consumers' switching intentions. *European Journal of Social Sciences*, 19(1), 54–61.
- Sathish, M., Kumar, K.S., Naveen, K.J., & Jeevanantham, V. (2011). A study on consumer switching behaviour in cellular service provider: A study with reference to Chennai. *Far East Journal of Psychology and Business*, 2(2), 71–81.
- Seo, D., Ranganathan, C., & Babad, Y. (2008). Two-level model of customer retention in the US mobile telecommunications service market. *Telecommunications Policy*, 32(3/4), 182–196.
- Sharma, N., & Patterson, P.G. (1999). The impact of communication effectiveness and service quality on relationship commitment in consumer, professional services. *Journal of Services Marketing*, 13(2), 151–170.
- Sharma, N., & Patterson, P.G. (2000). Switching costs, alternative attractiveness and experience as moderators of relationship commitment in professional consumer services. *International Journal of Service Industry Management*, 11(5), 470–490.
- Shi, M., Chiang, J., & Rhee, B.D. (2006). Price competition with reduced consumer switching costs: The case of wireless number portability in the cellular phone industry. *Management Science*, 52(1), 27–38.
- Shin, D.H., & Kim, W.Y. (2008). Forecasting customer switching intention in mobile service: An exploratory study of predictive factors in mobile number portability.

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- *Journal of Technological Forecasting and Social Change*, 75(6), 854–874.
- Smith, D.C., & Park, C.W. (1992). The effects of brand extensions on market share and advertising efficiency. *Journal of Marketing Research*, 29(3), 296–313.
- Stanton, W.J., Michael, J.E., & Bruce, J.W. (1994). *Fundamentals in Marketing* (10th ed.). Singapore: McGraw-Hill.
- Taylor, S., & Todd, P.A. (1995). Understanding information technology usage: A test of competing models. *Information Systems Research*, 6(2), 144–176.
- Taylor, S.A., & Baker, T.L. (1994). An assessment of the relationship between service quality and customer satisfaction in the formation of consumers purchase intentions. *Journal of Retailing*, 70(2), 163–178.
- Verhoef, P.C., Franses, P.H., & Hoekstra, J.C. (2002). The effect of relational constructs on customer referrals and number of services purchased from a multi-service provider: Does age of relationship matter? *Journal of the Academy of Marketing Science*, 30(3), 202–216.
- Wang, Y.G., Lo, H.P., & Hui, Y.V. (2003). The antecedents of service quality and product reputation: Evidence from the banking industry in China. *Managing Service Quality*, 13(1), 72–83.
- Wathne, K.H., Biong, H., & Heide, J.B. (2001). Choice of supplier in embedded markets: Relationship and marketing program effects. *Journal of Marketing*, 65(2), 54–66.
- Wetzels, M., Ruyter, K.D., & Birgelen, M.V. (1998). Marketing service relationships: The role of commitment. *Journal of Business and Industrial Marketing*, 13(4/5), 406–423.
- Wieringa, J.E., & Verhoef, P.C. (2007). Understanding customer switching behaviour in a liberalising service market: An exploratory study. *Journal of Service Research*, 10(2), 174–186.
- Yen, Y.S. (2010). Can perceived risks affect the relationship of switching costs and customer-loyalty in e-commerce? *Journal of Internet Research*, 20(2), 210–224.
- Zeithaml, V.A., Berry, L.L., & Parasuraman, A. (1996). The behavioural consequences of service quality. *Journal of Marketing*, 60(1), 31–46.

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