The Effects of Customers’ Perceived Relational Benefits on The Customer Perception of Service Innovation at Service Centers for IT Products: The Mediating Role of Customer Participation

Wujin Chu and Minjeong Kang

College of Business Administration, Seoul National University, Republic of Korea

Abstract

This study examines the relationships between customers' perceived functional (social) benefits from service providers and customers' perception of service innovation. It also assesses the mediation effects of their participation on their perception of service innovation. Focusing on service centers for IT products, structural equation modeling is used to test the hypotheses with data collected from 116 university students in South Korea. The results demonstrate that customers' perceived functional benefits from service providers and their perceived social benefits significantly and positively influence their perception of service innovation at service centers for IT products. Additionally, customers' participation partially mediates the relationships between their perceived functional (or social) benefits, and their perception of service innovation at service centers for IT products. The theoretical and managerial implications of these findings are also discussed. These findings may help in identifying factors that enhance customers' perception of service innovation.

Keywords: Perceived Functional Value, Perceived Social Value, Customers' Participation, Customers' Perception of Service Innovation

Introduction

Today’s service industry is evolving rapidly because of advances such as the Internet and e-commerce, and the increasing demands of discerning customers (Lovebuck et al, 2001). This industry has also become increasingly important, and the dependence of existing manufacturing industries on service industries has increased as well (Xin et al, 2013).
2006). Further, the share of service industries in the world economy has gradually increased (Dotzel et al., 2013). Overall, companies must innovate their services, because of the growing dependence of businesses on customer satisfaction, increased competition, fast-changing technology, increased levels of information availability, and the changing legal environment (Anatan and Radhy, 2007; Dotzel et al., 2013).

Studies on service innovation are not as frequent as those on innovations in manufacturing businesses (den Hertog, 2000). Only a few research papers have studied factors affecting service innovation, which is defined as a new or improved intangible offering affecting a company's operations or performance of activities for the benefit of customers (Dotzel et al., 2013). Service innovations are influenced by both customer participation and customer service experience, which together play a role in value creation and lead to higher performance in service productivity and various other processes (den Hertog, 2000).

So far, although customers have been the center of service innovations, no studies have been conducted on customers' relational benefits as variables potentially affecting service innovation. The objective of this study is to examine the effect of customers' relational benefits on service innovation, focusing on customers who use service centers for IT products. In this research, customers' relational benefits are categorized as functional and social; the direct effects these variables have on service innovation are examined. Further, how customer participation in service serves as an intermediary in the relationship between customer benefits and service innovation is also investigated.

**Theoretical Framework and Hypotheses**

**Service Innovation**

The idea of service innovation introduced by Schumpeter (1934), was initially discussed on the basis of product and process innovation. A service innovation is a new or improved intangible benefit offered and provided by a company to the company's customers (Dotzel et al., 2013). Toivonen and Tuominen (2009) defined the term as such: the implementation of a new service or a renewed existing service that benefits the organization that has developed it; the benefit is usually derived from the added value provided by the new or improved service to customers. Therefore, a service innovation can be defined as the implementation of a new service, or the renewal of an existing service which provides benefit to the implementing organization derived from the added value that the innovation provides to customers. Thus, service innovations encompass new, improved, and more efficient services along with the creative effort necessary to develop them (Toivonen and Tuominen, 2009; Schwarz et al., 2012).

Xin et al. (2006) divided service innovation success factors into internal and external ones. The internal factors included strategy, resources, and culture. Strategy refers to the clear goal setting, the support of top management, and smooth communication; the notion of resources pertains to available knowledge and skills; and culture refers to the support of senior management for innovation and cooperation. The external factors included customer involvement, customer experience, and networking between service companies (Xin et al., 2006). They encompass the complementarity of current services to existing services and customers' perceived customer benefits (Storey and Easingwood, 1993; van Riel et al., 2004).

**Customers' Relational Benefit**

Relational benefits are benefits arising from a long-term relationship between a company or a service provider and its customers; these involve more than just core services (Gwinner et al., 1998; Su et al., 2009). Morgan and Hunt (1994) defined relationship
marketing as 'marketing activities directed toward establishing, developing, and maintaining successful relational exchanges.' Through this, a company can enhance performance and make a firm relationship with its customers (Morgan and Hunt, 1994). A good relationship with customers is vital to marketing as it positively affects customer satisfaction, loyalty, word of mouth publicity and purchase decisions. Despite this, the effects of customer benefits have not garnered empirical attention (Reynolds and Beatty, 1999).

Gwinner et al. (1998), too, emphasized the importance of customers' relational benefits in service industries. They defined customer's relational benefits, in terms of customer relationships, as services exceeding core service performance, obtained by customers through a long-term relationship. Thus, these types of benefits can also be achieved when a service provider and its customers share a good relationship (Gwinner et al., 1998). Palmatier et al. (2006) pointed out that customers concentrate on relational exchanges, while companies provide relational benefits for customer retention (Morgan and Hunt 1994).

**Effects of Customers’ Relational Benefits on Perceived Service Innovation**

Hipp and Grupp (2005) stated that the improved service innovation is achieved when the customer value is created through the provision of services, while service innovation focuses on creating value through service relationships between a company and its customers (Vargo and Lusch, 2004; Liu and Chen, 2007). Consumers choose products and services based on desired benefits (Reynolds and Gutman, 1984) and pursue benefits from interpersonal relationships (McAdams et al. 1998).

According to Gwinner et al. (1998), relational benefits can be divided into confidence, social, and special treatment benefits or into functional and social benefits (Beatty et al., 1996; Reynolds and Beatty, 1999). Functional benefits include time saving, convenience, and improved purchase decisions, whereas social benefits are defined as customer benefits gained through positive relationships with sellers or service providers (Sweeney and Webb, 2007). Reynolds and Beatty (1999) mentioned that social and functional benefits are important dimensions of relational benefits. Thus, these two types of benefits are considered in the current study: functional and social. Functional benefits focus on saving time and increasing convenience for customers, while social relational benefits arise from face-to-face interactions between customer and service provider (Beatty et al. 1996; Su et al., 2009). Functional relational benefits are related to value and customers perceive them over the duration of their interaction and relationship with the service provider. They can be weighed against cost increase (Jackson, 1985; Beatty et al., 1996). The term refers to the social standing that customers obtain through interaction with a company and its employees; these include concepts such as friendship, fraternization, and personal recognition (Su et al., 2009). A study has shown that the greater the social and functional benefits sensed by a customer, the higher is the customer's satisfaction with his/her sales person (Reynolds and Beatty, 1999). Thus, both these benefits are important factors for building satisfying relationships with customers.

Service innovations will take place more smoothly when effective attachment, intimacy, and social support are present (Price and Amould 1999). Service innovation could then be considered the creation of new ways to meet unmet customer demands (Singhi and Agarwal, 2011). Based on the above reasoning, this research hypothesizes that two types of customers’ perceived relational benefits may have a positive effect on customers' perception of service innovation.

**H1:** Customers’ perceived functional benefits from service providers have a positive influence on customers’ perception of service innovation at service centers for IT products.
H2: Customers’ perceived social benefits from service providers have a positive influence on customers’ perception of service innovation at service centers for IT products.

Mediating Role of Customer Participation between Perceived Relational Benefits and Customer Perception of Service Innovation

With advances in technology and changes in customers’ shopping patterns and experiences, the active participation of consumers is required (Prahalad and Ranaswar, 2000). Silpake and Fisk (1985) specify customer participation as ‘the degree of consumers’ effort and involvement, both mental and physical, necessary to participate in production and delivery of services. Similarly, Rodie and Klein (2000) interpret customer participation as ‘a behavioral concept that refers to the actions and resources supplied by customers for service production and/or delivery,’ emphasizing the fact that customer participation is essential in service delivery.

The characteristics of customer service include non-separability, non-visibility, volatility, and heterogeneity (Carman and Langeard, 1980). Customer interaction can also be considered a characteristic (Menor and Sampson, 2002). Service innovation demands an interaction between service providers and customers (Alam, 2002; Liu and Chen, 2007) and is in fact developed through this close interaction. It is developed in business networks rather than in labs (Dotzel et al., 2013), and customer participation performs a critical role in service innovation (Kuusisto and Riepula, 2011; Wu, 2011), because it reduces time, decreases costs, and improves perceived service value (Alam, 2002). Service innovation can be achieved in the course of resolving problems that occur during customer service activities (Edvardsson et al., 2004). Therefore, the customer’s role in the service production and delivery process can be described as a customer participatory action.

On the other hand, the efficiency of relationship marketing depends more on the degree of customer participation than on the efforts of companies (Hakansson and Ford, 2002). Customer relational benefits may be improved via commitment to good relationships with customers (Dimitriadis, 2010). Dabholka (1990) reported that customer participation enhances the perception of service quality and customer satisfaction. According to Yoon et al. (2004), customer participation is the leading factor affecting the employee effort; through customer participation, employees work harder to meet customers’ needs, because relationships are formed in the course of service interaction.

Customer participation can form positive relationships through involvement with service providers (McLaughlin and Paton, 2008). However, only a few studies have emphasized customer participation as an important factor in innovation (de Brentani and Cooper, 1992). Customer participation will only be achieved if they expect to gain benefits from the relationship (Chan et al., 2010). In service innovation, customer participation is more important than product innovation (Sundbo, 1997).

Based on this theoretical foundation, the mediating role of customer participation is examined in processes where service relational benefits affect customers’ perception of service innovation.

H3: Customers’ perceived functional benefits from service providers have a positive influence on customers’ participation.

H4: Customers’ perceived social benefits from service providers have a positive influence on customers’ participation.

H5: Customers’ participation from service providers has a positive influence on customers’ perception of service innovation at service centers for IT products.
**H6:** Customers' participation mediates the relationship between perceived functional benefits, and customers' perception of service innovation at service centers for IT Products.

**H7:** Customers' participation mediates the relationship between perceived social benefits, and customers' perception of service innovation at service centers for IT products.

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**Figure 1: Perceived Relational Benefits, Customers' Participation and Customers' Perception of Service Innovation Structural Model**

**Methodology**

**Data Collection**

The subjects for the study were university students who possess computers, digital cameras and cell phones, who actively use electronic products and services, and who use customer service centers for IT products more than once a year. Through survey, the data were collected. A total of 130 respondents were surveyed and 116 respondents were selected for the study, excluding 14 students who did truthfully answer the survey questions. Their ages are between 22 and 32, and 89% of them are in their 20s. All the respondents are currently attending university. The items brought to the service centers are cell phones, computers, and digital cameras, in that order of frequency.

**Measurement**

The data presented in this study were a result of evaluation by the subjects who answered all the questionnaire questions using a 7-point likert scale ranging from 1 to 7. All the research papers were selected from preceding studies on marketing or consumer behaviors. Based on Baker and Sinkula (1999) and Kim (2012), customers' perception of service innovation was defined in this study as customers' perception of new developments, based on changes in customer behavior made to improve customer satisfaction. The measurement items include four items developed by Baker and Sinkula (1999) and Kim (2012). The functional and social benefit aspects of relational benefits were used according to the questionnaire used in the study of Jin et al. (2010). Relationships with 'sales associates' in the paper of Reynolds and Beatty (1999) and with 'members of online community' in the paper of Jin et al. (2010) to with 'service providers' were replaced in this paper. When looking at customers' participation, four questionnaires were constructed based on the papers of Bettencourt (1997) and Eisingerich and Bell (2006). Measurement Items were shown in Table 2. Reliability estimates for the scales is acceptable because all factor composite reliabilities' Cronbach alpha coefficients are over 0.70, which is the

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recommended value by Hairetals. (1998) 
(perceived functional benefits‘Cronbah alpha 
= .85, perceived social benefits‘Cronbah alpha 
= .85, customers’ participation’s Cronbah 
alpha = .89, customers’ perception of service 
innovation’s Cronbah alpha = .86). Table 1 
depicts the descriptive statistics and 
correlations of all variables.

Table 1: Descriptive Statistics and Correlations of All Variables

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perceived functional benefits</td>
<td>4.52</td>
<td>1.07</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived social benefits</td>
<td>3.80</td>
<td>1.23</td>
<td>0.57**</td>
<td>1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customers’ participation</td>
<td>5.23</td>
<td>.88</td>
<td>0.60**</td>
<td>0.56**</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Customers’ perception of service innovation</td>
<td>4.79</td>
<td>.92</td>
<td>0.57**</td>
<td>0.56**</td>
<td>0.59**</td>
<td>1.00</td>
</tr>
</tbody>
</table>

SD standard deviation **All correlations are significant at the 0.01% level, using a two-tailed t-test.

Results

Confirmatory Factor Analysis

Confirmatory factor analysis (CFA) was 
conducted to measure the properties of the 
scale items. CFA results, produced a good fit to 
the data indicating the overall fit of the 
measurement model, was adequate, \( \chi^2 = 
311.60 \) (df= 84, p<.001), \( \chi^2/df = 1.57 \), RMSEA 
= 0.07, CFI = 0.96, IFI = 0.95, TLI = 0.95. The 
value of CFI, IFI, TLI were higher than the 0.9 
threshold value (Byrne, 1998). An RMSEA 
value between .05-.08 also showed a 
satisfactory model fit (Turner andReisinger, 
2001). Table 2 describes the specific 
measurement items, standardized factor 
loading values, t-values and AVE values. The 
factor loading values were significantly above 
0.50 threshold (Fornell and Larcker, 1981). As 
depicted in Table 2, the average variance 
extracted (AVE) was greater than the 
variance unexplained and over .50 threshold 
(Bagozziand Yi, 1988; Fornell and Larcker, 
1981). Factor composite reliability is equal to 
or higher than 0.60 (Fornell and Larcker, 
1981). Table 2 reports the results of CFAs. It 
showed strong convergent validity for the 
measurement scale. The discriminant validity 
AVE values for each proposed concept exceed 
the squared correlations estimates (Fornell 
and Larcker, 1981; Hair et al, 2006). As 
shown in table 1 and 2, the discriminant 
validity was satisfied as AVE value of all 
variables exceed the squared correlations of 
any pairs of variables.

Table 2: Results of Confirmatory Factor Analysis

<table>
<thead>
<tr>
<th>Constructs</th>
<th>Factor loading</th>
<th>S.E.</th>
<th>CR</th>
<th>AVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perceived Functional Benefits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I value the convenience service providers at service centers for IT products provides me.</td>
<td>.82</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I value the time service providers at service centers for IT</td>
<td>.95</td>
<td>.10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
I value the advice service providers at service centers for IT products provide me. .75 .11
I make better purchase decisions because of service providers at service centers for IT products. .57 .13
Perceived Social Benefits 0.83 0.62
Friendship with service providers at service centers for IT products is valuable to me. .86
I enjoy spending time with service providers at service centers for IT products. .79 .11
I value the intimate relationship with service providers at service centers for IT products. .78 .09
Customers' Perception of Service Innovation at Service Centers for IT Products 0.87 0.64
Service centers for IT products redefine the concept of their products or services whenever there are changes in customers' behavior. .70
Service centers for IT products redefine the concept of their products or services to accommodate changes in customers' behavior. .87 .15
Service centers for IT products always try to improve their capabilities necessary to provide their products or service. .87 .14
Service centers for IT products always try to observe and respond to changes in customers' behavior. .71 .15
Customers' participation 0.88 0.66
I let service centers for IT products learn of ways so that they can better serve my needs. .83
I make constructive suggestions to service centers for IT products on how to improve the service. .96 .08
When I experience a problem at service centers for IT products, I inform them so they can improve service quality. .79 .10
If service centers for IT products give me good service, I let them know it. .53 .12

**Structural Equation Modeling (SEM)**

In order to verify the relationship between the hypotheses and variables, AMOS 18.0 was used to test SEM. Table 3 shows the results of the structural model displaying inter-relationships between each construction. The overall model fit is higher than the baseline score in the previous studies indicating a satisfactory fit. As shown in Table 3, the results support all the main hypotheses.

Table 3 shows the standardized regression weights. As shown in Table 3, customers' perceived function benefits from service providers exerted a significant effect on customers' perception of service innovation ($\beta = 0.29$, $p < 0.05$), which was found to be consistent with H1. In accordance with H2, Customers' perceived social benefit from service providers also revealed a significant impact on customers' perception of service innovation ($\beta = 0.24$, $p < 0.05$). These results revealed that both perceived functional benefit from service providers, and perceived social benefit from service providers are important factors to affecting customers' perception of service innovation.

The results also revealed that perceived functional benefits from service providers had
a significantly positive effect on customers’ participation ($\beta = 0.53, p < 0.01$) which supported H3. Consistent with H4, social benefit from service providers significantly exert a positive effect on customers’ participation ($\beta = 0.31, p < 0.01$). These results show that customers’ participation was found to be significantly related to customers’ perception of service innovation ($\beta = 0.28, p < 0.05$) which H5 was supported.

In order to verify the mediation effect of customer participation in the relationship between customers’ perceived functional (social) benefits from service providers, and customers’ perception of service innovation, indirect effects were estimated. To verify the effect of mediating variables, testing all the path directly is recommended (Edelman et al., 2005).

As shown in table 4, the effect of perceived functional benefits from service providers on perception of service innovation was partially mediated by customers’ participation ($\beta = 0.12, p < 0.01$). In addition, the partial mediation of customers’ participation was revealed in the relationship between perceived social benefits from service providers and customers’ perception of service innovation ($\beta = 0.12, p < 0.01$). Thus, both H6 and H7 were all supported.

Table 4 depicts the direct, indirect and total effects of each independent variable on customers’ perception of service innovation. The direct, indirect and total effects of customers’ perceived functional benefits, and social benefits from service providers on customers’ perception of service innovation were found to be significant. As a result, customer participation partially mediated the relationship between customer’s perceived functional (social) benefits from service providers and customers’ perception of service innovation.

<table>
<thead>
<tr>
<th>Dependent variables</th>
<th>Customers’ participation</th>
<th>Customers’ perception of service innovation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$\beta$</td>
<td>t-value</td>
</tr>
<tr>
<td><strong>Exogenous variables</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customers’ perceived functional benefit</td>
<td>.53</td>
<td>4.82</td>
</tr>
<tr>
<td>Customers’ perceived social benefit</td>
<td>.31</td>
<td>2.86</td>
</tr>
<tr>
<td><strong>Endogenous variable</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customers’ participation</td>
<td>.28</td>
<td>2.17</td>
</tr>
</tbody>
</table>

Table 4: Effects of Independent Variables on Customers’ Perception of Service Innovation

<table>
<thead>
<tr>
<th>Variables</th>
<th>Direct effects</th>
<th>Indirect effects</th>
<th>Total effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customers’ participation</td>
<td>.28*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customers’ perceived functional benefits</td>
<td>.29*</td>
<td>.15*</td>
<td>0.44*</td>
</tr>
<tr>
<td>Customers’ perceived social benefits</td>
<td>.24*</td>
<td>.09*</td>
<td>0.33**</td>
</tr>
</tbody>
</table>

Asterisks indicate the level of significance: *<.05, **<.01,
General Discussion

Previous studies have focused on manufacturing innovation (Schumpeter, 1934), and service innovation has been evaluated only as a way of increasing productivity (Drejer, 2004). In the past, few studies have been conducted on service innovation success factors (de Brentani and Cooper, 1992). The goal of the present study is to explore the mediating result of customer participation on customers’ perception of service innovation, by examining the interrelationships between customers’ perceived relational benefits, customers’ participation, and customers’ perception of service innovation. Customers’ relational benefits are divided into functional and social benefits, and the positive effects of these two variables on customers’ perception of service innovation are examined. The results show that customers’ perceived relational benefits can be the main factors involved in service innovation and in service centers for IT products. Previous studies have indicated that relational benefits have positive effects on customer loyalty and relationship commitment (Palmatier et al., 2006). However, this study is novel from a customer perspective because it shows that perceived relational benefits directly affect service innovation, leading to further expansion of relational benefits. Relational benefits have been introduced and studied from the perspective of companies, but very few studies have explored the customer perspective (Zhu and Kramer, 2002; Su et al., 2009).

Additionally, the way customer participation acts as an intermediary was examined, and customers’ perceived relational benefits were found to positively affect customers’ perception of service innovation. Thus, it is significant that the relationship between customer participation and service innovation, which has not been clearly empirically proven in previous studies, was identified in the current study. It is necessary to recognize the importance of customer participation in increasing service innovation and to make efforts to prepare for its utilization.

Service-oriented businesses should also increase service benefits that have a direct effect on customer satisfaction in order to enhance service innovation. Service concepts for the IT products industry should be re-established whenever customer service adjusts to changes in customer expectations, so that service benefits can be improved.

The production and consumption of a service occur concurrently. Thus, the interaction with customer is very important when creating value through service. Customers are important participants in co-creating service value. Further, for service innovation, it is important to build durable bonds with suppliers and other business partners, as well as customers and employees (Bygstad and Lanestedt, 2009). Customer interaction means customer involvement in the service production and delivery process (Zhang, 2007). Although, customer interaction is known to be important for service innovation, few studies examine the importance of customer participation in service innovation. Thus, this paper is significant, as it shows empirically that customer participation is vital to the service innovation process.

The results of this study on the impact of customer participation on perceived service innovation has theoretical implications; one of the topics in this study on service innovation who play the role of co-creator of service innovation (Alam 2002; Nam and Lee 2010). Meanwhile, Jin et al. (2010) reported that active participation in online communities positively affects the members’ perceived relational benefits, but this paper shows that the perceived relational benefits gained from service providers in customer service centers will cause increased customer participation, which then leads to the increase of perceived service innovation, thus
differentiating these results from those of existing research papers. As the degree of customer participation is empirically important, customer participation should be increased, and customers should be encouraged to participate in order for company personnel to maintain good relationships with them.

On the other hand, Chesbrough (2011) believes that manufacturing industries will have to change toward using a service-minded set business model rather than a product-oriented business model, so as to remain competitive in the market, and the current study's findings agree with Chesbrough's results in this context; the importance of service innovation in the IT products field and in customer service centers for IT Products were confirmed.

Service innovation is divided into (1) industry level, (2) organization level, (3) customer relationship level, and (4) production level innovation. Among these levels, service innovation at the customer relationship level occurs when a service provider focuses on customers, and each individual customer relationship is an example of innovation at this level. As discussed here, service innovation is limited to the customer relationship level (Coombs and Miles, 2000). Future studies are needed to investigate service innovation at various levels, other than the customer relationship level, and the affecting factors (Reynolds and Beatty, 1999).

Previously, the definitions of service innovation and product innovation were used interchangeably, and research papers were limited to product innovation (de Brentani, 1995). Today, as service innovation gains importance, research papers that concentrate on service are necessary.

**Limitations and Future Research**

The factors that affect service innovation are varied. While, the present study considers social and functional benefits, more factors may need to be recognized in future studies.

Additionally, there are few studies on service businesses that draw connections between service benefits and service innovation, and these studies are limited in scope. A range of studies on service innovation will complement the existing literature. Further, it is necessary to undertake studies on the effects of service innovation on service performance.

In future studies, a variety of marketing implications should be derived by examining different types of services (for example, ratio of services with high customer participation to services with low customer participation), cultural background, and user characteristics (duration of use, loyalty, types for services, etc). Different customers expect different relational benefits (Gwinner et al., 1998; Su et al., 2009) because they perceive the value of relational benefits differently, based on cultural background or personal factors (Patterson and Smith, 2001). A comparison of these variables, between benefit type and service innovations, may also prove useful.

In the present study, the only services investigated were those provided in customer service centers for IT products. Specifically, the effect of service offerings on service innovation was studied. For generalization of the research model, an empirical analysis is needed, targeting not only IT customer service centers but a range of service areas. Additionally, studies on countries other than Korea are necessary.

This study has some limitations: The service innovation surveys focused only on customers. Thus, future studies need to examine in depth the different dimensions of service innovation, and to evaluate questionnaires from different perspectives. Additionally, as companies demonstrate positive outcomes in service innovation over a period time after they have delivered services, longitudinal research is essential. Lastly, this study showed a sampling bias toward university students. Thus, it would be helpful to obtain samples with different...
Acknowledgements

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