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UNDERSTANDING THE ACCEPTANCE OF IT-BASED SHARING ECONOMIC SERVICES

¹DONG HYUK JO, ²JONG WOO PARK, ³HONG SEOK PARK

¹²³Department of Business Administration, Soongsil University, Seoul, South Korea

E-mail: ¹joe@ssu.ac.kr, ²jongpark7@ssu.ac.kr, ³newjoro@naver.com

ABSTRACT

This study aims to empirically verify the structural relationships between perceived risks, perceived values, trust, and intention to use for sharing economy services. In order to achieve the objective of this study, the survey was conducted targeting the car sharing service which has been noticeably growing in the sharing economy service. In the results of the study, first, the perceived risks of sharing economy service had negative(-) effect on the perceived values. Second, the perceived risks had negative(-) effect on trust. Third, the economic value and social value had positive(+) effect on trust while the functional value not had effect on trust. Fourth, the functional value and economic value had positive(+) effect on the intention of use while the social value not had effect on the intention to use. Lastly, trust had positive(+) effect on the intention to use. This study provided a chance to understand the risks and values actually perceived by potential users before the full-scale vitalization of sharing economy service, and also to see the importance of trust. Moreover, it also suggested the direction to establish strategies for the vitalization of services.

Keywords: Sharing Economy Services, Perceived Risk, Perceived Values, Trust, Intention to Use

1. INTRODUCTION

In his book "The Age of Access", Jeremy Rifkin claimed that the era of ownership is now ending and the age of access is coming [34]. The Social Network Service (SNS) is spreading as if it supports his argument, as a result, information sharing among individuals has become easier than ever before, and a huge online network is formed, allowing it to search and use various information anytime and anywhere. In addition, people who are not familiar with each other communicate with each other by writing reviews through SNS, and start trading based on trust through their reviews. In this way, consumers are able to consume more rationally than before, which promotes the emergence of a new economic mode called Sharing Economy [21].

Sharing Economy is used as a concept of collaborative consumption economy, as opposed to the capitalism, which is symbolized by mass consumption and mass production [27]. In other words, the sharing economy is basically a way of sharing the products with many people, starting from the concept of tangible resource such as automobile, space, clothing, book, etc., to the concept of intangible resource such as time and talents [2]. Until recently, consumers thought that

the ownership is the most ideal way to access their favorite products and services. But consumers are increasingly paying for temporary access and sharing instead of buying or owning products and services [26].

Forbes (2013) reported that the revenue in the shared economy market is exceeding \$ 3.5 billion, with a growth rate of more than 25%, predicting that sharing economy market would grow into megatrend market. With this trend, various business models based on the motive of sharing economy have been introduced competitively, resulting in intense competition to preoccupy the megatrend market. In this way, the sharing economy is a new phenomenon emerged by the spread of social commerce and sharing as well as the development of information and communication technology (ICT), the promotion of consumer consciousness, and the spread of cooperative online communities [18].

The reason why the sharing economy services attracts attention is because the use of sharing economy serves allows it to reduce consumption costs or to obtain additional income sources. In addition, sharing economy service contributes to building an environmentally friendly society by reducing unnecessary consumption and increasing resource utilization. Recently, as smartphones

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become popular and IT-based services become more widespread, it becomes easier and safer to use the sharing economy services [21].

However, despite the social and economic advantages of sharing economy services, some people criticize that the sharing economy is a temporary phenomenon arising after the long-term economic downturn. In view that the ownership of stuff is a basic human desire, the refusal to share my stuff with someone who I do not know will be a setback. In particular, it is also difficult to assess the economic value of the tangible resource because it is impossible to accurately depreciate its value after use. In addition, personal privacy may be disclosed while sharing stuff, and liability issues in the event of damage or theft may cause aversion to the use of sharing economy services [21]. For limitations, Rachel Botsman, the author of "We Generation", emphasized the importance of trust in a sharing economy by saying that trading through trust among people who are familiar with each other is the core of a shared economy [5].

Although interest in sharing economy services has increased worldwide, empirical studies on sharing economy services have seldom been conducted. To date, studies on sharing economy focus on analyzing the social cost benefits of sharing economic services and successful cases carried out using sharing economy a business model. In addition, there are some studies on the use of sharing economy services, but there is a limit in deriving practical implications in that risk factors and trust factors that should be considered as core issues in accepting sharing economy services are not addressed in a comprehensive manner.

Therefore, this study was conducted with the aim to empirically validate the structural relationship between the perceived risk, perceived value, trust, and intention to use sharing economy services in order to identify factors influencing the acceptance of sharing economy services. More specifically, the author aimed at the following objectives: First, examine the effect of the perceived risk of sharing economy services on trust and intention to use. Second, examine the effect of perceived risk on perceived values such as economic value, functional value, and social value, and the effect on trust and intention to use. Third, examine the effect of user trust on sharing economy service on intention to use.

This study will be meaningful in that it examined the risks and values perceived by the users in relation to the sharing economic service that will be fully activated in Korea in near future. It is also expected that this study will help activate

sharing economy by specifically identifying the factors that effect on the trust of users, which is referred to as core factor in sharing economy services. This study aims to provide an opportunity to understand the acceptance and use environment of sharing economy services and to suggest strategic directions for the acceptance shared economic services and its use.

This study examines the success factors of IT - based shared economic services. Therefore, this study was designed and constructed as a literature review and theoretical framework to achieve the purpose of the study. This study is divided into five chapters. Chapter 1 introduces the thesis and its objectives, scope, and organization. Chapter 2 presents a research hypothesis based on a review of literature on major concepts and theories. Chapter 3 presents the sample, measure and analysis method of the study. Chapter 4 presents the data analyses and findings. Chapter 5 presents the summary and future research directions, based on the results of the test of the theoretical model.

2. THEORETICAL BACKGROUND AND HYPOTHESES

2.1. Sharing Economy Service

The term 'Sharing Economy' was first introduced by Harvard professor, Lawrence Lessig, as an opposite concept of capitalistic economy. According to his definition, sharing economy is a cooperative consumption by several people using a product together, and a consumption culture maximizing the value of resources [27]. It is considered not as a cold economics based on demand-supply principle but a warm economics working based on sharing and coexistence [15]. Sharing economy services are being provided in multiple areas, but among those, car sharing service is showing the most distinct growth. Thus, this study conducted research focused on car sharing service.

Car sharing is using a car by several people on time basis, and as shown in Fig. 1, service is carried in a relationship between distance of travel and flexibility [40]. Sharing of transportation vehicle first began in 1948, Switzerland, a cooperative association called 'Sefage' provided a car used as common property [36]. Back then, however, this service was not developed as business, and only recently, the car sharing service has developed drastically with the emergence of sharing economy.

Commercial car sharing service had started from 1999 by Zipcar. Zipcar pioneered the car sharing market by providing car rental services in a

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short time basis for citizens in big cities. In case of Korea, commercial car sharing service has begun in 2008 and currently, companies like Greencar, Socar, Hankook Carsharing, Drive Plus, Citicar are providing services.

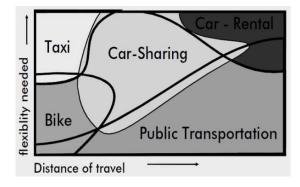


Figure 1: The relationship between distance and flexibility of car sharing service (Tumlin, 2008)

2.2. Perceived Risk

In the midst of decision making, consumers cannot predict the result definitely, and they perceive risk due to uncertainties that unexpected result could come [3]. Cox (1967) defined the perceived risk as a function of loss for the uncertainties in the purpose of purchase objective, satisfaction after purchase, and results that do not fit the purpose of purchase [8]. Peter and Tarpey (1975) defined the perceived risk as expected loss. Perceived risk refers to the loss of expectations that may result from purchasing and choice rather than the uncertainty in choice, which is seen as a negative effect of holding down purchase or withdrawing purchasing intentions [33]. Stone and Winter (1987) argued that the perceived risk should be defined as an independent concept of expected loss, not a function of both uncertainty and loss [38]. In other words, the perceived risk has been studied as a major variable for explaining customer behavior as the perception of negative uncertainty in the unpredictable consequences of product purchase and service utilization and potential losses to come [23].

In the previous studies, the perceived risk was suggested in multi-dimensions, such as economic risk, functional risk, psychological risk, and security risk, and has been found to have a significant effect on customer attitude and behavioral intention [32] [7] [21]. In the case of sharing economy services, uncertainty must inevitably exist because most transactions are made online and the transactions between individuals and

individuals are main stream in sharing economy services. Therefore, unlike an offline trading environment, there is a risk to the transaction itself. In other words, the various risks perceived by the customer in the process of using the service negatively affect the value, trust and satisfaction perceived by users, which in turn may serve as obstacles to the spread of the service [22]. Therefore, this study established hypotheses as follows:

H1: Perceived risk will have a negative effect on perceived value.

H1-1: Perceived risk will have a negative effect on functional value.

H1-2: Perceived risk will have a negative effect on economic value.

H1-3: Perceived risk will have a negative effect on social value.

H2: Perceived risk will have a negative effect on trust.

2.3. Perceived Value

Researches on perceived value have been carried in multiple areas including anthropology, sociology, psychology and its definition is also different [9]. As the most universe definition of perceived value, Zeithaml (1998) presented four different aspects of perceived value: Low cost, desired benefits, quality for paid, difference between paid and gained. Among these aspects, last aspect is used most for definition [43]. Consumers evaluate the value of a product or service according to what to give and gain. In other words, people appraise a product or service based on subjective perception about price, quality and value rather than objective properties. According to Monroe's definition, perceived value is a trade-off between gained and loss, which is the paid amount of money and gained benefit and value, and the total perceived value is the sum of earned value and transaction value [30]. Kotler & Keller (2007) in their study has expanded the meaning of value from quality and price to psychological value by defining the consumer value as the monetary value of the functional, economic and psychological advantages expected by consumers [25].

In other words, perceived value is an overall assessment of the products and services that are provided in return for the price paid by the consumer [43]. It is an assessment of the utility that consumers are willing to pay for what they get and

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is formed when product quality is higher than expected [33]. In the previous studies, the perceived value was treated as an important predictor of consumer behavior, and the perceived value was found to have effect on consumer attitudes toward products and services and behavioral intent [29] [32] [7] [21]. Therefore, this study established hypotheses as follows:

H3. Perceived value will have a positive effect on trust.

H3-1: Functional value will have a positive effect on trust.

H3-2: Economic value will have a positive effect on trust.

H3-3: Social value will have a positive effect on trust.

H4. Perceived value will have a positive effect on intention to use.

H4-1: Functional value will have a positive effect on intention to use.

H4-2: Economic value will have a positive effect on intention to use.

H4-3: Social value will have a positive effect on intention to use.

2.4. Trust

Trust is studied in lots of research fields because trust affects decrease of transaction cost, enhancement of productivity, sharing of value, codevelopment, transaction stabilization, and long-term relationship [12]. Based on previous researches, trust is defined as the extent of belief that a firm could provide products and services for customers with professionality, credibility, and affinity [1]. Moreover, trust is considered as an indispensable factor for a long-term and successful relationship between a firm and customers [31].

Doney & Cannon (1997) defined the trust as the extent of believing that a counterparty who might endanger me would act appropriately without control or oversight [11]. Dick & Basu (1994) said that service provider trust was an important factor in forming a sustained relationship [10]. In other words, trust is built based on observation of the other party or experience interaction in the past, and it is directly related to the fulfillment of expectations, so that long-term satisfaction strengthens the trust of service providers [13]. Kotler (1999) said that long-term relationships can be established when service users are trusted by the service company and the uncertainties and risks described above are expected to be small when the relationship with the company is maintained [24].

Therefore, the following hypothesis can be established. Therefore, this study established hypotheses as follows:

H5: Trust will have a positive effect on intention to use.

3. RESEARCH METHOD

3.1. Sample

In order to reveal the structural relationship between perceived risks, perceived value, trust, and intention to use of car sharing service, this study conducted a survey from potential users who have experience of visiting websites of car sharing companies and do not own a car. Survey was conducted for 4 weeks and 257 surveys were collected for analysis.

Table 1: Sample Characteristics

Category and Items		Sample size	ratio (%)	
Gender	Male	110	42.8	
	Female	147	57.2	
Age	20 ~29	91	35.4	
	30 ~39	85	33.1	
	40 ~ 49	66	25.7	
	More than 50	15	5.8	

3.2. Measure

To ensure the content validity of the measurement tool, this study used the measurement items verified in the existing literature by revising and supplementing them according to the purpose of this study. First, Perceived risk was constructed into 4 items each in reference to the studies by Jarvenpaa & Todd (1997), Ward & Lee (2000), and Noe (2011), and were measured using 7-point Likert scale (Strongly disagree ~ Strongly agree). Also, Perceived value (Functional value, Economic value, Social value) was constructed into 4 items each in reference to the studies by Sheth et al. (1991), Sweeney & Souter (2001), and Noe (2011), and were measured using 7-point Likert scale. Trust was constructed into 4 items each in reference to the studies by Jarvenpaa et al. (2000) and Gefen (2003), and were measured using 7-point Likert scale. Intention to use was constructed into 4 items each in reference to the studies by Lin & Lu (2000), Gefen (2003), and Wang et al. (2006), and were measured using 7-point Likert scale.

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3.3. Analysis method

For the analysis method and measurement tool of structural equation models, this study analyzed the results and verified the hypothesis using Amos 24.0. For the analysis of the structural equation model, the measurement model was estimated first, and then it was analyzed using the two-step approach that estimates the structural model.

4. ANALYSIS AND RESULTS

4.1. Measurement Model

This study conducted confirmatory factor analysis to ensure the content validity of the measurement tool. As a result, initial model did not exceed standard fitness threshold, so modified indices analysis were conducted [17], and measurement items that lowers unidimensionality were deleted (FV4, EV4, SV1). As a result of factor analysis of modified confirmatory measurement model, $\chi 2 = 277.242(P=0.000)$, $\chi 2/df$ = 1.593, RMSEA = .048, GFI = .905, CFI = .978, IFI = .978, TLI = .974, indicating that measurement model was fit. Next, for measurement items, reliability and validity test were conducted. For reliability, construct reliability should appear above 0.7, and average variance extract should be above 0.5. Additionally, for validity, two latent variables' AVE1 and AVE2 should bigger than squared value of its correlation. As a result of analysis, reliability and validity were verified.

4.2. Structural model

As measurement model's fitness, and reliability and validity of measurement items were verified, structural model analysis were conducted. As a result of structural model's fitness test, $\chi^2 = 277.476$ (P = .000), $\chi^2/df = 1.586$ was above threshold 3, and RMSEA = .048 was below standard of 0.08. Moreover, GFI = .904, CFI = .978, IFI = .979, TLI = .974 all of indices appeared above recommended value of 0.9 and therefore, the structural model' goodness of fit of the research model was verified.

Table 2: Confirmatory factor analysis base on reliability

Construct	Measurement Item	Std. Loading	Std. Error	C.R.	Construct Reliability	
Functional value	FV1	.870				
	FV2	.901	.054	19.306	.842	
	FV3	.841	.056	17.294		
	EV1	.889				
Economic value	EV2	.895	.051	20.393	.847	
varac	EV3	.821	.055	17.322		
~	SV2	.921				
Social value	SV3	.876	.047	20.436	.867	
varac	SV4	.844	.047	19.028		
	PR1	.803			.891	
Perceived	PR2	.854	.066	15.767		
risk	PR3	.905	.067	17.051		
	PR4	.894	.066	16.791		
	TR1	.814			.863	
T4	TR2	.877	.063	16.405		
Trust	TR3	.817	.070	14.896		
	TR4	.789	.067	14.209		
	IU1	.855				
Intention to Use	IU2	.919	.056	20.837	904	
	IU13	.885	.058	19.338	.894	
	IU14	.946	.055	22.108		

Table 3: Correlations between Constructs and Validity

Tuote 5.	Tuble 5. Correlations between Constructs and Validity					
Const ruct	1	2	3	4	5	6
1	.640*					
2	.627	.650*				
3	.266	.500	.674*			
4	.034	.038	.046	.673*		
5	.411	.548	.461	.094	.612*	
6	.521	.578	.376	.058	.570	.678*

*AVE (Average Variance Extract)

1 = Functional value, 2 = Economic Value, 3 = Social Value, 4 = Perceived Risk, 5 = Trust, 6 = Intention to Use

4.3. Hypotheses Test

After structural model's fitness was confirmed, research hypotheses were tested. As a result, first, for relationship between perceived risk and perceived value, perceived risk has a significant effects on functional value (C.R. = -2.728, p = .006), economic value (C.R. = -2.889, p = .004),

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and social value (C.R. = -3.200, p = .001), thus, supporting H1-1, H1-2, and H1-3. Second, for relationship between perceived risk and trust, perceived risk (C.R. = -2.880, = .004) have an effect on trust, thus, supporting H2. Third, for relationship between perceived value and trust, economic value (C.R. = 3.115, p = .002) and social value (C.R. = 4.056, p = .000) had significant effects on trust, while functional value (C.R. = 1.893, p = .058) did not have a significant effect on trust, thus H3-2 and 3-2 was supported while H3-1 was not supported. Fourth, for relationship between perceived value and intention to use, functional value (C.R. = 3.439, p = .000) and economic value (C.R. = 2.135, p = .033) had significant effects on intention to use, while social value (C.R. = .892, p = .372) did not have a significant effect on intention to use, thus H4-1 and 4-2 was supported while H4-3 was not supported. Lastly, for relationship between trust and trust, intention to use (C.R. = 4.930, = .000) have an effect on trust, thus, supporting H5.

Table 4: Validity of research hypothesis

H	Path Coefficient	Std. Error	C.R. (t)	Supported /Not
H1-1	221	.081	-2.728**	Supported
H1-2	226	.078	-2.889**	Supported
H1-3	267	.083	-3.200**	Supported
H2	137	.047	-2.880**	Supported
H3-1	.140	.074	1.893	Not Supported
H3-2	.307	.097	3.155**	Supported
Н3-3	.240	.059	4.056***	Supported
H4-1	.279	.081	3.439***	Supported
H4-2	.231	.108	2.135*	Supported
H4-3	.059	.066	.892	Not Supported
Н5	.460	.093	4.930***	Supported

^{*:} p < 0.05, **: p < 0.01, ***: p < 0.001

5. CONCLUSION

In this paper, the cause and effect relationship of perceived risk, perceived value, trust and intention to use of sharing economy service was empirically analyzed. The results of the study are, first, perceived risk negatively affects all the perceived value including functional, economic, social values. This result is consistent with previous researches [4] [6]. Therefore, sharing economy service providers must minimize the risks that

might happen when service is being used. Second, perceived risk of sharing economy service also have a negative effect on trust. This result is verified in previous research as well [35], and implies that the bigger perceived risks are, the lower trust. In sharing economy services, trust has been emphasized as the most important factor and service providers need to lessen the decrease of trust by minimizing perceived risks. Third, among perceived value of sharing economy service, economic value and social value appeared to affect trust positively. On the other hand, functional value does not have any effect on trust. Fourth, functional value and economic value have positive effects on intention to use whereas social value does not have significant effect. This is a congruent result with previous studies [16]. Lastly, trust on sharing economy service positively affects intention to use. This implies again that trust is the important factor that affects consumers' intention to use. Especially, trust plays a bigger role in uncertain situations like online service environment and person-to-person transaction environment where sharing economy service takes place.

Based on the results of this study, implications have been derived as follows. First, this study is meaningful in that the study empirically confirmed the effect of the value and trust perceived by users on the intention to use of the potential users of sharing economy services. In particular, this study has presented the results so that sharing economy can be understood by potential users in depth by dividing the perceived value of sharing economy services into functional, economic, and social values. Second, this study confirmed that the perceived risk of sharing economy services is a factor that directly effect on perceived value and trust. According to the results of this study, it is expected that the sharing economy service provider can improve perceived value and trust in sharing economy services by actively reducing the perceived risk of users. Third, this study has empirically validated the effect of trust on sharing economy service on intention to use. The trust perceived by users in use environment of sharing economy services where uncertainty necessarily exists is a very important variable, but it was not considered important in the previous studies. This study has significance in that it empirically validated that trust is an important influential variable in intention to use sharing economy services. The purpose of this study is to provide an opportunity to understand the acceptance and use environment of the sharing economy service which has recently been attracting attention, and suggest

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strategic directions for the acceptance and spread of sharing economy services.

This study also allows room for future research. This study was focused on car sharing services among shared economic services. In addition to car sharing, there are various services such as accommodation, books, space, and clothing. Therefore, considering the diversity of shared economic services in future research, it can provide a chance to understand shared economic services more broadly.

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Appendix A. Measurement items.

Dimensions	Items	Factor Loading
Perceived risk	1. It seems to be more expensive than existing services.	.874
	2. It seems that the expected level of quality is unlikely to be provided.	.896
	3. I am afraid that the value will not be exhibited as much as the cost I paid.	
	4. I am afraid that the information provided previously may not match the actual service.	.899
	1. It will be convenient to use.	.802
Functional	2. I will be able to use it immediately when I want.	
value	3. It will be able to satisfy my needs.	.847
	4. It will provide stable service quality.	.702
	1. I will be able to get the value of the price I paid.	.676
Economic	2. I will be able to reduce the cost of using the service.	.677
value	3. Time and effort for trading will be saved.	.700
	4. I think the price is reasonable.	.736
	1. Use of service matches my lifestyle.	.680
Social	2. If I use the service, people around me will have a positive image of me.	.830
value	3. If I use the service, I will feel differentiated from others.	.850
	4. The service seems to match my usual image.	.774
	1. I think that the various information provided when using the service is reliable.	.733
Tenat	2. I think that the quality of the service is trustworthy.	.700
Trust	3. I think that personal and transactional information will be kept safe.	.808
	4. I think that the fee is reasonable.	.707
	1. I have a lot of interest in service.	.712
intention	2. I have the intention to use the service.	.796
to use	3. I have the intention to learn the procedures necessary to use the service.	.763
	4. I have the intention to use the service in the future.	.776