SJIF (2020): 7.803

An Empirical Study on the Use Intention to Subscription Economy Service [Extending Technology Acceptance Model with Perceived Enjoyment]

Choi Jong Seok

Shanghai University, School of Economics, No.99 Shangda Rd, Baoshan District, Shanghai, China supertramp93[at]gmail.com

Abstract: The subscription economy is growing at a very rapid pace. The subscription economy has already settled in our lives as a new common currency - the long - term relationship between businesses and customers, including the transaction of products or additional product features and services in exchange for recurring customer payment plans. This study analyzed the factors affecting the intention to use the subscription service for Korean subscription service users, focusing on the characteristics of the subscription service. An online survey was conducted to clarify the factors of subscription service adoption and to verify the relationship between variables. A total of 193 questionnaires were collected, and 163 survey results were used as actual analysis data, excluding questionnaires with no subscription service experience and insincere respondents. SPSS 24.0 and AMOS statistical program were used to verify the research hypothesis. Looking at the results of the analysis, variables that influence the Perceived Usefulness of subscription service users were Personal recommendation, Self - efficacy, Reliability, but Price sensitivity was rejected. Self - efficacy was the only variable that affected the Perceived ease of use of subscription service users, and all other variables were rejected. The variables that influence the Perceived Enjoyment of subscription service users were personal recommendation, self - efficacy, and reliability, and price sensitivity was rejected. Finally, perceived usefulness, perceived ease of use has been shown to affect the user's intention to use subscription service, but perceived enjoyment has no effect in this study. These findings help to understand users' perceptions of subscription services and are meaningful in providing basic data for activating subscription services by deriving specific factors that affect users' intention to use subscription services. Also through this study, it was possible to clearly grasp the intention to use the subscription economy service and to provide implications for expanding the intention to use it to consumers.

Keywords: Subscription Service, Technology Acceptance Model, Price Sensitivity, Perceived Enjoyment, Use Intention

1. Introduction

1.1 Background

The subscription economy is growing at a very rapid pace. The word 'subscription economy' can be unfamiliar to many people. However, the subscription economy has already settled in our lives as a new common currency - the long - term relationship between businesses and customers, including the transaction of products or additional product features and services in exchange for recurring customer payment plans. Not long ago, Netflix's stock price hit a record high as of April 15.2020. Of course, because of COVID - 19's influence, people cannot go out and go to the theater and their increased use of Netflix can affect this result. But it is noteworthy that Netflix, which went public in 2002, is ahead of Disney, the U. S. flagship 100 - year old company. Other examples are IT companies, which are mired in stagnant growth, have succeeded in improving their constitution by shifting from a business focused on product sales to a business focused on subscription. Instead of selling CDs such as MS Windows and MS Office, Microsoft focused on providing software through subscription services in 2014. Although its operating profit temporarily decreased the following year, effects of subscription models began to appear in earnest the following year. Over the three years from 2015 to 2018, Microsoft's operating profit increased by 24.5% annually. Sales of Office 365 in the form of subscription surpassed the traditional way of selling licenses from the fourth quarter of 2017, and subscribers increased 110 percent annually from 7.1 million in 2016 to 31.4 million in 2018.

The subscription economy has been spreading to other areas since Netflix's success in providing unlimited streaming videos. Start - up Hutch, which allows users to drink a glass of cocktail every day at hundreds of bars in Manhattan, New York, for \$9.99 a month, posted sales of \$2 million (2.2 billion won) in 2017. In Japan, bars offering unlimited alcohol at a monthly price of 3, 000 yen (30, 000 won) are thriving. In Korea, you can also drink Americano coffee that costs 29, 900 won per month at Wemakeprice's W Cafe. Furthermore, it is spreading to health and medical areas such as health clubs and hospitals. In the field of clothing, cosmetics, and household goods, "regular delivery models" are in the spotlight. The lingerie company Adormi recorded \$100 million in sales in 2017 with a service that delivers personalized underwear and bras. Recently, a so - called "rental evolution model" has emerged that can be used to experience luxury cars. The monthly fixed amount is 600 dollars for Volvo, 2, 000 dollars for Porsche, and 1, 095 dollars for Mercedes. In June 2020, Hyundai Motor also

Volume 10 Issue 9, September 2021

www.ijsr.net

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ISSN: 2319-7064 SJIF (2020): 7.803

released a product in the U. S. that starts at \$279 a month. Economists describe the spread of the subscription economy as "utilization theory." In other words, it is the result of efforts to gain maximum satisfaction with limited resources and expenses. As Jeremy Rifkin predicted in "The End of Soil," the era of "connection" and "use" has come to a reality beyond the era of "ownership." (Hankyoung Dictionary.2019)

1.2 Purpose of Research

Various subscription economic sectors have sprung up according to various consumer needs, and the related market will grow violently due to consumers' demand for them. Various subscription economy services will be provided in line with this market situation. Against this backdrop, research on the intent and its factors to use subscription - economy services has important implications. But prior research on subscription services has focused on specific areas such as video services and music services, and has studied users' intention to use them due to factors such as personal innovation, social influence, cost, motivation for use (H. K. BAEK et al., 2013; D. H. KIM & K. PARK, 2016), utility, multimedia content, entertainment, price, design (S. S Kim et al., 2011). There have been some studies of the intention of using subscription economy services in recent years, but it is likely to remain to the extent of exploring the intent of use in general values. In addition, few studies have been conducted to consider the reliability of new types of consumption, the price sensitivity due to regular payment, and the satisfaction of convenience functions that can be called the strength of the subscription economy. Based on these problems, this study aims to develop an empirical analysis model in consideration of the characteristics of the subscription economy service and to conduct an analysis on the factors that affect the intention of using the subscription economy. Therefore, this research is needed because it can help predict what factors should be focused on to secure a competitive advantage in the subscription service market.

2. Literature Review & Theoretical Frameworks

2.1 Concepts of Subscription Economy Service

Subscriptions were recognized as the most attractive and efficient consumer activity for millennials (generation born in the early 1980s and early 2000s) who prefer a variety of experiences over permanent ownership (J. H KIM, 2019). Subscription - based business models are more popular than ever, and many consumers prefer to subscribe to products and services on a regular basis than to consume. There are two reasons why such subscriptions have become more popular. First, it provides consumers with improved access to products or services, immediate savings and convenience. Second, corporations can generate revenue repeatedly and improve customer loyalty (Subbit, 2018).

Tien Tsuo, the world's first expert in subscription business

and founder and CEO of Zuora, a corporate subscription economy payment system and software solution company, said, "We need to turn customers into subscribers to generate recurring revenue through service delivery, not through product sales, " referring to this change in the economic environment as 'Subscription Economy'. In other words, a subscription economy is an economic activity by recognizing goods as a concept of consumers subscribing to and using services rather than a concept of ownership (Tienchuo& Gabe Wyzert, 2019; McCarthy et al, 2017). Research has shown that a subscription business model is a way that consumers regularly receive products or services at a certain cost, just as they subscribe to newspapers or magazines.

2.2 User Satisfaction and Technology Acceptance Model

The Technology Acceptance Model (TAM) was designed in 1989 by Davis to predict users' acceptance of new information technology and provide an efficient and theoretically valid explanation of their intention to use it. The Technology Acceptance Model (TAM) among the many proposed models to date is a representative tool for the study of acceptors of technology, and has been used especially in measuring the use of online - based services such as subscription economy as well as technology products (A. R. shraf et al, 2015; H. Eray et al, 2011; J. Ingham et al, 2015; J. H. CHOI, 2015; S. H. LIM, 2012).

Davis suggested the concepts of 'Perceived Usefulness' and 'Perceived Ease of Use' and argued that the two factors affect the behavior of innovative products. The 'Perceived Ease of Use' means that it is not difficult to use a particular technology without requiring much effort and user's attitude, and 'Perceived Usefulness' is the degree to which one believes certain skills will improve one's performance. These in turn affects one's attitude, and in the end, attitudes influence one's own behavior. (I. Ajzen, 1980, J. H. Han, 2015).

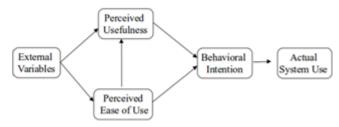


Figure 1: TAM: Technology Acceptance Model

Based on the fact that the previous TAM study shows only external motivations for users and the inherent motivations for the technology itself are excluded, Veysel&Eray (2011) analyzed the intention to use online shopping and its impact on actual purchases using a Technology Acceptance Model that further extends 'Perceived Enjoyment'. Analysis shows that Perceived Enjoyment also affects perceived usefulness and attitude, which affects purchases (H. Eray et al, 2011). Similarly, Ha &Stoel (2009) studied an extended technology acceptance model that utilizes factors of shopping quality, enjoyment and reliability and found that reliability affected Perceived Usefulness and Perceived

Volume 10 Issue 9, September 2021

www.ijsr.net

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ISSN: 2319-7064 SJIF (2020): 7.803

Enjoyment, which again affected attitude. Eventually, this attitude appeared to affect online behavior. (J. H. HAN et al, 2015).

H15: Use intention associated with the subscription economy is higher for individuals with higher perceived enjoyment.

3. Empirical Analysis

3.1 Research Hypothesis

H1: Perceived usefulness associated with the subscription economy is higher for individuals with lower price sensitivity.

H2: Perceived ease of use associated with the subscription economy is higher for individuals with lower price sensitivity.

H3: Perceived enjoyment associated with the subscription economy is higher for individuals with lower price sensitivity.

H4: Perceived usefulness associated with the subscription economy is higher for individuals with personal recommendation functions.

H5: Perceived ease of use associated with the subscription economy is higher for individuals with personal recommendation functions.

H6: Perceived enjoyment associated with the subscription economy is higher for individuals with personal recommendation functions.

H7: Perceived usefulness associated with the subscription economy is higher for individuals with higher self - efficacy H8: Perceived ease of use associated with the subscription economy is higher for individuals with higher self - efficacy H9: Perceived enjoyment associated with the subscription economy is higher for individuals with higher self - efficacy H10: Perceived usefulness associated with the subscription economy is higher for individuals with higher reliability

H11: Perceived ease of use associated with the subscription economy is higher for individuals with higher reliability

H12: Perceived enjoyment associated with the subscription economy is higher for individuals with higher reliability

H13: Use intention associated with the subscription economy is higher for individuals with higher perceived usefulness.

H14: Use intention associated with the subscription economy is higher for individuals with higher perceived ease of use.

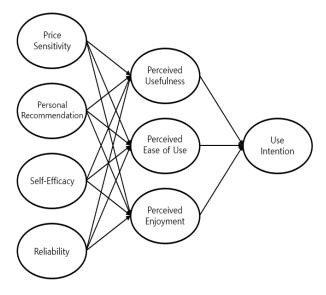


Figure 2: Research Model

3.2 Research Model

As discussed in the theoretical background, the analysis was performed using the expanded technology acceptance model. Price sensitivity, personal recommendation, self efficacy, reliability were utilized as individual characteristic variables among exogenous variables, and perceived usefulness, perceived ease of use, perceived enjoyment were utilized as parameters. And the intention to use subscription economy services was utilized as a dependent variable. Based on the research by Davis (1989), who proposed the technology acceptance model, the model was used to expand the perceived enjoyment, and each hypothesis and theoretical validity were hypothesized using the preceding studies in Table 1 below.

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3.3 Research Method

Table 1: Definition of Variables and Questionnaires

Va	ariables	Sources	Definition	Questionnaires
	Price Sensitivity	Jeong Myung - sun et al. (2016). Kim et al. (2013); Kim (2003); Park (2015); Goldsmith & Newell (1997); Nagle (1987)	individual degree of reaction according to the change of the price level of a products or services	price effect, sensitivity, price importance, price barrier
Independent variable	Personal Recommendation	Gehrt et al. (1996), Berry et al. (2002), Park Wonik & Kang Sang - gil (2013)	Individual degree of recognition of convenience in the personal recommendation function of subscription services	Personalized recommendation based on customer needs, understanding customer interest, intelligence of the function
	Self - efficacy	Agarwal & Karahanna (2000); Bandura (1977); Mort & Drennan (2007)	concept of the combination of the judgement on whether itself has the ability to	difficulty of use, need help at the time ofuse, efficiency of use, description of how

Volume 10 Issue 9, September 2021

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Paper ID: SR21825174318 DOI: 10.21275/SR21825174318

ISSN: 2319-7064 SJIF (2020): 7.803

			perform certain actions	to use
			and the motivation to	
			promote	
		Choi et al (2015); Dwyer & Oh (1987);		
	Reliability	Ha &Stoel (2009); Ingham etal. (2015);	reliability of the new	confidence in use, fairness.
	Kenability	Mishra et al (1998); Morgan& Hunt	technology	honesty, trust of information.
		(1994); Wilson (1995)		
	Perceived Ease of		degree of expectation of	clarity of utilization, effort
	Use		possible utilization with	and time utilization,
	030	Davis (1989); Venkatesh&Davis (2000);	little effort	understanding, rapidity
	Perceived	Mun& Hwang (2003)	high availability, the extent	understandability, minimality
Perception	Usefulness		of the use value	of effort
variables	Osciumess		of the use value	and time, ease
variables		Kim (2010); Lee (2012); Moon & Kim		Fun, time advantage, pleasure,
	Perceived	(2001); Bandura (1997); Davis etal	level of interest	curiosity satisfied, the mood
	Enjoyment	(1992); Hackbarth et al. (2003);	level of interest	,
		Koufaris (2002); Rice et al. (1990)		improvement
Dependent	Use	Chen (2000); Fenech (1998), Kim (2019)	degree of impulse to use the	Usage intent, information
variable	Intention	Chen (2000), Fenech (1998), Killi (2019)	product or service.	utilization, reservation intent

This study modified and supplemented the measurement items for the configuration concepts that have been proven in Reliability and Validity in the preliminary survey, and summarized the measurement items in the questionnaire are as shown in Table 2. The questionnaires used for data collection to verify the structural relationship of the research model proposed in this work consisted largely of five parts.

Table 2: Ouestionnaire Configuration

	abic 2. Questionnane	Comigaran	711
Category	Measured Variable	Number of	Measurement
Category	Measured variable	Questions	Method
	Price Sensitivity	4	
Eutomal	Personal	3	7 - point
External variable	Recommendation	3	Likert scale
	Self - Efficacy	2	(1 point:
	Reliability	3	"strongly
Behavioral	Perceived Usefulness	3	disagree", 7
beliefs	Perceived Ease of Use	3	points:
bellets	Perceived Enjoyment	3	"strongly
Behavioral attitudes	Use Intention	3	agree")

This work utilizes SPSS 24.0 and the AMOS statistics program to validate established research hypotheses and research model. To verify the internal consistency of the survey items, this study conducted an Exploratory Factor Analysis (EFA) to verify the reliability and validity of the measurement items. Next, this study conducted Confirmatory Factor Analysis (CFA) to verify the suitability of the research model using AMOS. After analyzing Convergent Validity and Discriminant Validity among the

components of the variable, we evaluate the suitability of the research model. This study also validates research hypotheses and research models using structural equation modeling (SEM) analysis to determine the overall causal relationship between factors.

4. Research Result

4.1 Factor Analysis and Reliability Analysis

4.1.1 Exploratory Factor Analysis

Factor analysis refers to a technique that analyzes the complex and diverse interrelationships of questionnaire questions, many variables, and identifies the shared/embedded structure between them. This is a technique that binds variables to fewer homogeneous dimensions and facilitates understanding of the data by identifying the shared relationship structure present in these variables based on the correlation between them.

This means that the variables within each factor are highly correlated and are less correlated with the variables contained in the other factors. Given data on several variables and at least some of them are highly correlated with each other, factor analysis provides more concise factors without incurring a significant loss of information. If the feasibility or commonality is low in factor analysis, the question is excluded, and if the question is grouped into other factors (variables), the question is omitted and transformed.

Table 3: Exploratory Factor Analysis

					Factors					C
	Variables	Perceived	Personal	Perceived	Perceived	price	Reliability	Use	Self	Cronbach`s Alpha
		Enjoyment	Recommendation	Ease of Use	Usefulness	sensitivity	Kenabinty	Intention	Efficacy	Aipiia
ĺ	Perceived Enjoyment2	0.819	0.183	0.233	0.058	-0.006	0.101	0.227	0.022	0.00
Ī	Perceived Enjoyment1	0.818	0.216	0.124	0.289	-0.033	0.017	0.125	0.013	0.88

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Personal Recommendation2 0.077 0.924 0.1 0.112 -0.064 Personal Recommendation1 0.15 0.884 0.033 0.083 -0.02 Personal Recommendation3 0.197 0.863 0.039 0.09 -0.039 Perceived Ease of Use2 0.148 0.13 0.86 0.036 0.005 Perceived Ease of Use3 0.256 0.088 0.718 0.239 -0.05 Perceived Ease of Use1 0.187 -0.016 0.706 0.295 -0.005 Perceived Usefulness1 0.245 0.13 0.195 0.752 -0.035 Perceived Usefulness2 0.237 0.167 0.137 0.75 0.024 Perceived Usefulness3 0.424 0.17 0.21 0.588 0.05 price sensitivity3 0.018 -0.04 -0.152 0.108 0.775 price sensitivity4 -0.05 -0.104 -0.009 -0.145 0.775 price sensitivity2 -0.001 0.038 0.087 -0.309 <th>1 0.133 9 0.022</th> <th>0.105 0.098 0.021</th> <th>0.01</th> <th>0.906</th>	1 0.133 9 0.022	0.105 0.098 0.021	0.01	0.906				
Personal Recommendation3 0.197 0.863 0.039 0.09 -0.039 Perceived Ease of Use2 0.148 0.13 0.86 0.036 0.005 Perceived Ease of Use3 0.256 0.088 0.718 0.239 -0.05 Perceived Ease of Use1 0.187 -0.016 0.706 0.295 -0.005 Perceived Usefulness1 0.245 0.13 0.195 0.752 -0.033 Perceived Usefulness2 0.237 0.167 0.137 0.75 0.024 Perceived Usefulness3 0.424 0.17 0.21 0.588 0.05 price sensitivity3 0.018 -0.04 -0.152 0.108 0.786 price sensitivity4 -0.05 -0.104 -0.009 -0.145 0.775	9 0.022			0.906				
Perceived Ease of Use2 0.148 0.13 0.86 0.036 0.005 Perceived Ease of Use3 0.256 0.088 0.718 0.239 -0.05 Perceived Ease of Use1 0.187 -0.016 0.706 0.295 -0.005 Perceived Usefulness1 0.245 0.13 0.195 0.752 -0.035 Perceived Usefulness2 0.237 0.167 0.137 0.75 0.024 Perceived Usefulness3 0.424 0.17 0.21 0.588 0.05 price sensitivity3 0.018 -0.04 -0.152 0.108 0.786 price sensitivity4 -0.05 -0.104 -0.009 -0.145 0.775		0.021						
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Perceived Usefulness2 0.237 0.167 0.137 0.75 0.024 Perceived Usefulness3 0.424 0.17 0.21 0.588 0.05 price sensitivity3 0.018 -0.04 -0.152 0.108 0.786 price sensitivity4 -0.05 -0.104 -0.009 -0.145 0.775	5 0.187	0.129	0.234					
Perceived Usefulness3 0.424 0.17 0.21 0.588 0.05 price sensitivity3 0.018 -0.04 -0.152 0.108 0.786 price sensitivity4 -0.05 -0.104 -0.009 -0.145 0.775	5 0.236	0.214	0.136					
price sensitivity3 0.018 -0.04 -0.152 0.108 0.786 price sensitivity4 -0.05 -0.104 -0.009 -0.145 0.775	4 0.222	0.218	0.028	0.865				
price sensitivity4 -0.05 -0.104 -0.009 -0.145 0.775	0.229	0.252	0.022					
	6 -0.184	-0.041	-0.01					
price sensitivity2 -0.001 0.038 0.087 -0.309 0.739	5 -0.072	0.249	0.043	0.75				
	9 0.223	-0.277	-0.125	0.75				
price sensitivity1 -0.072 -0.015 0.118 0.282 0.699	9 -0.028	-0.204	0.159					
Reliability2 0.158 0.194 0.056 0.097 -0.107	7 0.868	0.096	0.089					
Reliability3 0.044 0.006 0.159 0.326 -0.015	5 0.788	0.144	-0.118	0.807				
Reliability1 0.467 0.211 -0.102 0.175 -0.064	4 0.593	0.131	0.346					
Use Intention3 0.173 0.041 0.245 0.171 -0.067	7 0.114	0.748	0.189					
Use Intention 2 0.229 0.222 0.241 0.188 -0.086	6 0.227	0.694	0.063	0.839				
Use Intention 1 0.264 0.094 0.304 0.425 -0.05	5 0.073	0.682	-0.067					
Self Efficacy2 -0.018 -0.061 0.291 0.097 0.009	9 0.036	0.031	0.829	0.600				
Self Efficacy1 0.15 0.047 0.497 -0.015 0.132	2 0.033	0.206	0.655	0.698				
eigenvalue 2.876 2.728 2.608 2.401 2.32	2.182	2.181	1.505					
% of Variance 11.984 11.367 10.867 10.004 9.666	6 9.09	9.087	6.269					
Cumulative % 11.984 23.351 34.218 44.222 53.88	88 62.979	72.065	78.334					
Kaiser - Meyer - Olkin Measure of Sampling Adequacy = .853								
Bartlett's Test of Sphericity. Chi - Square X2=2358.624 (df=276, p<0	5							

^{*}p<0.05, **p<0.01 Harman's single factor test= No common method bias

By grouping eight factors through factor analysis, variables were simplified. The orthogonal rotation method, VERIMAX rotation, was used to rotate factors, and the sphericalness verification of KMO and Bartlett were performed simultaneously. For KMO, it is generally considered good if it is higher than 0.7.

KMO is considered good because 0.855 came out. The following is the Bartlett's test that determines whether the use of a factor analysis is appropriate. The use of factor analysis is appropriate because much less than 0.05. The analysis of the factors showed eight factors: Perceived Enjoyment, Personal Recommendation, Perceived Ease of Use, Perceived Usefulness, Price Sensitivity, Reliability, Use Intention, and Self - Efficacy.

Identifying whether repeated measurements for the same concept are likely to result in the same measurement is called reliability verification or Cronbach alpha verification. Usually, papers judge that 0.6 or higher is reliable.

First, looking at Perceived Enjoyment, the value of the reliability is 0.880, showing high confidence. Next, looking at Personal Recommendation, the value of reliability is

0.906, which is very high. Next, when looking at Perceived Ease of Use, the value of reliability is 0.857 which is highly reliable. Next, when looking at Perceived Usefulness, the value of the reliability is 0.865, showing high confidence. The following shows that the value of confidence is 0.750, indicating normal confidence. In the following view of Reliability, the value of the reliability is 0.807, showing high confidence. Next, looking at Use Intention, the value of the reliability is 0.839, showing high confidence. Finally, when we look at Self - Efficacy, the value of the reliability is 0.698, showing a low confidence level.

Pearson's correlation coefficient was used to view the correlation of variables. The correlation coefficient of the correlation analysis has a value between - 1 and +1, and the closer to zero, the less linear the two variables appear to be. If there is (-) in front of the coefficient of correlation, the direction of the two variables is opposite, and (+; no indication) is the correlation of the positive, indicating a linear relationship in the same direction. The characteristic of correlation analysis is that the coefficient of correlation does not change when multiplied, divided, subtracted, or added by a constant constant.

Volume 10 Issue 9, September 2021

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ISSN: 2319-7064 SJIF (2020): 7.803

Table 4:	Pearson's	Correlat	ion Coeffi	icient

	price_	Personal_	Self_	Reliability	Perceived_	Perceived_	Perceived_	Use_
	sensitivity	Recommendation	Efficacy	Renadility	Usefulness	Ease_of_Use	Enjoyment	Intention
price_sensitivity	1							
Personal_Recommendation	-0.099	1						
Self_Efficacy	0.071	0.037	1					
Reliability	-0.121	.325**	.187*	1				
Perceived_Usefulness	-0.055	.357**	.264**	.561**	1			
Perceived_ Ease_of_Use	-0.042	.211**	.607**	.318**	.524**	1		
Perceived_Enjoyment	-0.097	.380**	.231**	.467**	.619**	.491**	1	
Use_Intention	168*	.303**	.325**	.438**	.636**	.600**	.558**	1

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

Looking at price sensitivity and Use Intention, the correlation coefficient was - 0.168, showing a statistically significant negative correlation.

Looking at Personal Recommendation and Reliability, the correlation coefficient is 0.325, showing a statistically significant amount of correlation. Looking at Personal Recommendation and Perceived Usefulness, the correlation coefficient is 0.357, showing a statistically significant amount of correlation.

Looking at Personal Recommendation and Perceived Ease of Use, the correlation coefficient is 0.211, showing a statistically significant amount of correlation. Looking at Personal Recommendation and Perceived Enjoyment, the correlation coefficient is 0.380, which is statistically significant. Looking at Personal Recommendation and Use Intention, the correlation coefficient is 0.303, showing a statistically significant amount of correlation.

Looking at Self Efficacy and Reliability, the correlation coefficient is 0.187, showing a statistically significant amount of correlation. Looking at Self Efficacy and Perceived Usefulness, the correlation coefficient is 0.264, showing a statistically significant amount of correlation. Looking at Self Efficacy and Perceived Ease of Use, the correlation coefficient is 0.607, showing a statistically significant amount of correlation. Looking at Self Efficacy and Perceived Enjoyment, the correlation coefficient is 0.231, showing a statistically significant amount of correlation. Looking at Self Efficacy and Use Intention, the correlation coefficient is 0.325, showing a statistically significant amount of correlation.

When looking at Reliability and Perceived Usefulness, the correlation coefficient is 0.561, showing a statistically significant amount of correlation. When looking at Reliability and Perceived Ease of Use, the correlation coefficient is 0.318, showing a statistically significant amount of correlation. When looking at Reliability and Perceived Enjoyment, the correlation coefficient is 0.467, showing a statistically significant amount of correlation. When looking at Reliability and Use Intention, the correlation coefficient is 0.438, showing a statistically

significant amount of correlation.

Looking at Perceived Usefulness and Perceived Ease of Use, the correlation coefficient is 0.524, which is statistically significant. When looking at Perceived Usefulness and Perceived Enjoyment, the correlation coefficient is 0.619, showing a statistically significant amount of correlation. Looking at Perceived Usefulness and Use Intention, the correlation coefficient is 0.636, showing a statistically significant amount of correlation.

When looking at Perceived Ease of Use and Perceived Enjoyment, the correlation coefficient is 0.491, showing a statistically significant amount of correlation. When looking at Perceived Ease of Use and Use Intention, the correlation coefficient is 0.600, showing a statistically significant amount of correlation.

When looking at Perceived Enjoyment and Use Intention, the correlation coefficient is 0.558, which is statistically significant.

4.2 Confirmatory Factor Analysis

Before proceeding with the structural equation model analysis, confirmatory factor analysis (CFA) was conducted to determine whether the observed variables constituting each latent variable were properly constructed.

In this study, the fit of the model was evaluated through the CFI (Comparative Fit Index), TLI (Tucker - Lewis Indes), and RMSEA (Root - Mean Square Error of Approximation), in which the criteria for the fitness evaluation index were established. Among the incremental fit indices, the higher the CFI value and the TLI value, the better the fit of the model is, and if it is approximately 0.9 or higher, it is interpreted as a good fit. On the other hand, the smaller the value of RMSEA (the double root of the mean square of approximate error) is interpreted as a good fit. Very good fit if RMSEA <.05, good fit if RMSEA <.08, moderate fit if RMSEA <.10, and bad fit if RMSEA>.10 (Browne & Cudeck, 1993). If the standardized RMR value is less than 0.05~0.08, it is interpreted as appropriate (Hu&Bentler, 1999).

Volume 10 Issue 9, September 2021

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ISSN: 2319-7064 SJIF (2020): 7.803

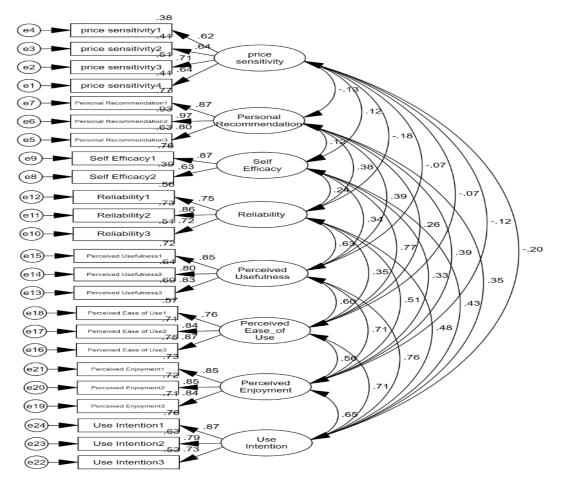


Figure 3: Research Model Evaluation

The incremental fitness index, TLI, showed a standard value of 0.9, and CFI was also higher than the standard value of 0.9. If the SRMR is also 0.1 or less, it can be said that it is suitable. RMSEA, the absolute fitness index, showed a lower value than the standard value of 10 and showed a good overall fit, and the confirmatory factor analysis model was judged to be suitable. Of course, the absolute standard of fitness has not been statistically yet, but it is usually said that the above criteria are suitable. In other words, depending on the research, some of the standard values are relative.

Table 5: Verifiable Factor Analysis Fits

						RMSEA	A	
χ^2	df	p	TLI	CFI	Value	Lower	Upper	SRMR
					value	Bound	Bound	
388.216	224	0	0.909	0.926	0.067	0.056	0.078	0.061

On the other hand, to determine whether each observation reflects the latent variable well in the confirmatory factor analysis, the factor load of the observators was found to be significant, indicating that they reflect the latent variable well. On the other hand, the standardized path coefficient (β) was found to be higher than 0.5, satisfying the concept validity.

			Estimate	S. E.	β	C. R.	P
price_sensitivity4	< -	price_sensitivity	1		0.642		
price_sensitivity3	< -	price_sensitivity	1.246	0.196	0.714	6.341	***
price_sensitivity2	< -	price_sensitivity	1.101	0.182	0.643	6.035	***
price_sensitivity1	< -	price_sensitivity	0.97	0.165	0.62	5.893	***
Personal_Recommendation3	< -	Personal_Recommendation	1		0.795		
Personal_Recommendation2	< -	Personal_Recommendation	1.129	0.081	0.965	13.989	***
Personal_Recommendation1	< -	Personal_Recommendation	1.081	0.083	0.875	13.053	***
Self_Efficacy2	< -	Self_Efficacy	1		0.626		
Self_Efficacy1	< -	Self_Efficacy	1.154	0.168	0.872	6.866	***
Reliability3	< -	Reliability	1		0.715		
Reliability2	< -	Reliability	1.215	0.133	0.857	9.101	***
Reliability1	< -	Reliability	1	0.118	0.746	8.468	***

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Paper ID: SR21825174318

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Perceived_Usefulness3	< -	Perceived_Usefulness	1		0.833		
Perceived_Usefulness2	<-	Perceived_Usefulness	0.94	0.082	0.8	11.51	***
Perceived_Usefulness1	<-	Perceived_Usefulness	0.958	0.077	0.846	12.385	***
Perceived_Ease_of_Use3	<-	Perceived_Ease_of_Use	1		0.866		
Perceived_Ease_of_Use2	<-	Perceived_Ease_of_Use	1.139	0.088	0.84	13.002	***
Perceived_Ease_of_Use1	< -	Perceived_Ease_of_Use	0.965	0.087	0.756	11.142	***
Perceived_Enjoyment3	<-	Perceived_Enjoyment	1		0.841		
Perceived_Enjoyment2	< -	Perceived_Enjoyment	1.016	0.08	0.85	12.662	***
Perceived_Enjoyment1	< -	Perceived_Enjoyment	0.835	0.066	0.852	12.69	***
Use_Intention3	<-	Use_Intention	1		0.73		
Use_Intention2	<-	Use_Intention	1.148	0.119	0.794	9.63	***
Use_Intention1	< -	Use_Intention	1.092	0.105	0.872	10.406	***

Convergent validity means that there must be a high correlation between values measured by different methods in order to measure the same concept. In other words, convergent validity is to verify to what extent a plurality of items measuring the same concept coincide. To test this convergent validity, the Construct Reliability and Average Variance Extracted (AVE) were measured for each variable. Convergent validity evaluation criteria are interpreted as high convergent validity when the concept reliability is 0.7 or more and the average variance extraction value is 0.5 or more.

	CR	AVE
price_sensitivity	0.751	0.53
Personal_Recommendation	0.912	0.776
Self_Efficacy	0.726	0.596
Reliability	0.818	0.601
Perceived_Usefulness	0.866	0.683
Perceived_Ease_of_Use	0.862	0.676
Perceived_Enjoyment	0.885	0.719
Use_Intention	0.842	0.641

Discriminant validity means that there must be a clear difference in the measurement between different variables. To test this discriminant validity, we measured the Average Variance Extracted (AVE) for each variable and calculated the correlation coefficient between the variables.

The criterion for evaluating discriminant validity is that the square value of the correlation coefficient between each variable should not exceed the mean variance extraction value. Independent variable correlation squared values were Self Efficacy and Perceived Ease of Use 0.593; the mean variance extraction for each variable was all higher. There was no abnormality in the discrimination validity.

For verification of discriminant validity, we typically select the pair with the highest correlation between conceptually similar variables, as verification between all variables is very difficult (if there are many variables). The reason for choosing correlation between the highest variables is that the higher the correlation, the less likely the discriminant validity is.

			DV
price_sensitivity	< -	Personal_Recommendation	
price_sensitivity	< -	Self_Efficacy	0.013
price_sensitivity	< -	Reliability	0.031
price_sensitivity	< -	Perceived_Usefulness	0.005
price_sensitivity	< -	Perceived_Ease_of_Use	0.005
price_sensitivity	<-	Perceived_Enjoyment	0.003
price_sensitivity	<-	Use_Intention	0.014
Personal_Recommendation	_	Self_Efficacy	0.014
			0.014
Personal_Recommendation		Reliability	
Personal_Recommendation		Perceived_Usefulness	0.155
Personal_Recommendation		Perceived_Ease_of_Use	0.065
Personal_Recommendation		Perceived_Enjoyment	0.152
Personal_Recommendation	< -	Use_Intention	0.123
Self_Efficacy	< -	Reliability	0.056
Self_Efficacy	< -	Perceived_Usefulness	0.118
Self_Efficacy	< -	Perceived_Ease_of_Use	0.593
Self_Efficacy	< -	Perceived_Enjoyment	0.111
Self_Efficacy	\ \	Use_Intention	0.187
Reliability	\ \	Perceived_Usefulness	0.398
Reliability	< -	Perceived_Ease_of_Use	0.124
Reliability	< -	Perceived_Enjoyment	0.265
Reliability	< -	Use_Intention	0.234
Perceived_Ease_of_Use	< -	Perceived_Enjoyment	0.316
Perceived_Ease_of_Use	< -	Use_Intention	0.497
Perceived_Enjoyment	< -	Use_Intention	0.424
Perceived_Usefulness	< -	Perceived_Ease_of_Use	0.364
Perceived_Usefulness	< -	Perceived_Enjoyment	0.498
Perceived_Usefulness	< -	Use_Intention	0.585

4.3 Evaluation of the Fitness of the Research Model

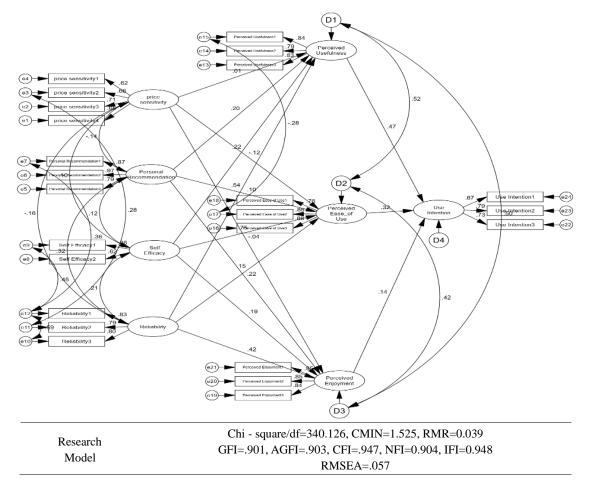
Volume 10 Issue 9, September 2021

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Paper ID: SR21825174318 DOI: 10.21275/SR21825174318 275

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As a standard for goodness - of - fit, CMIN/DF, RMR, GFI, AGFI, CFI, NFI, IFI and RMES should normally be lower than 2. RMR should be less than 0.05, GFI, AGFI, CFI, NFI should be less than 0.9 and RMSEA should be less than 0.05. Of course, 0.1 to 0.05 is acceptable. Of course, the absolute baseline is not yet statistically available, but it is commonly said that these criteria are appropriate. That is, some baseline is relative according to the study.

The table above is the overall result table of route analysis. Looking at the fit, RMR=0.039, GFI=.901 AGFI=0.903. NFI=0.904, RMSEA=0.057, CFI=0.947 CMIN/DF=1.525. Overall, almost all figures exceed the standard of fitness.

4.4 Verification of Research Hypothesis and Analysis of Results

			Estimate	S. E.	β	C. R.	P	Hypothesis
Perceived_Usefulness	< -	price_sensitivity	0.006	0.069	0.007	0.092	0.927	Rejection
Perceived_Usefulness	< -	Personal_Recommendation	0.153	0.055	0.205	2.752	0.006	Adoption
Perceived_Usefulness	< -	Self_Efficacy	0.26	0.099	0.216	2.632	0.008	Adoption
Perceived_Usefulness	< -	Reliability	0.46	0.083	0.535	5.569	0	Adoption
Perceived_Ease_of_Use	< -	price_sensitivity	-0.098	0.063	-0.119	-1.554	0.12	Rejection
Perceived_Ease_of_Use	< -	Personal_Recommendation	0.069	0.049	0.098	1.408	0.159	Rejection
Perceived_Ease_of_Use	< -	Self_Efficacy	0.851	0.127	0.752	6.684	0	Adoption
Perceived_Ease_of_Use	< -	Reliability	0.118	0.062	0.146	1.901	0.057	Rejection
Perceived_Enjoyment	< -	price_sensitivity	-0.037	0.081	-0.038	-0.45	0.652	Rejection
Perceived_Enjoyment	< -	Personal_Recommendation	0.18	0.065	0.218	2.749	0.006	Adoption
Perceived_Enjoyment	< -	Self_Efficacy	0.256	0.114	0.192	2.251	0.024	Adoption
Perceived_Enjoyment	< -	Reliability	0.398	0.088	0.418	4.529	0	Adoption
Use_Intention	< -	Perceived_Usefulness	0.422	0.104	0.471	4.077	0	Adoption
Use_Intention	< -	Perceived_Ease_of_Use	0.308	0.084	0.324	3.664	0	Adoption
Use_Intention	< -	Perceived_Enjoyment	0.115	0.08	0.142	1.443	0.149	Rejection

Volume 10 Issue 9, September 2021

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Paper ID: SR21825174318 DOI: 10.21275/SR21825174318

ISSN: 2319-7064 SJIF (2020): 7.803

4.4.1 Verifying the Relationship between the Characteristics of the Subscription Service and Perceived Usefulness

As a result, the sensitivity to the price of using subscription services does not appear to affect the enjoyment of subscription services perceived by subscription service users. On the other hand, the characteristics of subscription services personal recommendation, self efficacy, and reliability have been shown to have a positive impact on the enjoyment of subscription services perceived by subscription service users.

4.4.2 Verifying the Relationship Between Perceived Usefulness, Ease of Use, Enjoyment and Use Intention

As a result, the hypothesis results of this study, the same as the existing prior study, confirm that when subscribed service users find it easy to handle and useful, they lead to users' continuous use. On the other hand, it was not possible to confirm the hypothesis, which was newly attempted through this study, that the enjoyment of using the subscription service has a positive effect on the continued use intention of subscribers.

5. Conclusion

5.1 Research Summary

The comprehensive findings and implications of this study can be summarized as follows.

First, in this study, price sensitivity did not have a positive impact on both perceived usefulness, ease of use and enjoyment for subscription service users. Regardless of whether the price sensitivity is high or low, the usefulness, ease of use, and enjoyment of using the subscription service to users of the subscription service remain unchanged. Although subscription services have been in the spotlight recently, it is believed that recognition of price sensitivity may be difficult because there are no various types of services to compare the price of use.

Second, with the development of the Internet and data technology, it is possible to identify customers' increasingly diverse needs and propose services or products that meet each customer's needs. Through this study, it was confirmed that personal recommendation as a representative convenience function of subscription services has a positive effect on users of subscription services feeling useful and enjoyable. Subscription services can reduce customers' time and effort by recommending services and products suitable for each customer through surveys, details of use, etc. In particular, in the case of subscription services that provide content such as Netflix, customers enjoy greater enjoyment in using the subscription service by receiving new videos or music recommendations that suit their taste. Therefore, subscription services should strive to provide more granular and accurate personalized recommendation services.

Third, if the self efficacy that subscription users feel when using the subscription service is high, it has a significant impact on perceived usefulness, ease of use, enjoyment on the subscription service. If self - efficacy is high, it is an important item that can increase the usefulness, ease of use, and enjoyment of subscription service. Therefore, self - efficacy should be considered important for service expansion. As a way to do that, it is necessary to pay attention to simple usage methods, efficient description, easy payment methods, and high - quality CS etc. so that customers do not feel complicated or difficult to use subscription services.

Fourth, reliability has been shown to have a significant effect on perceived usefulness and enjoyment, but not on ease of use. Reliability is very important due to the characteristic of the subscription service that customer contracts (subscribes) and pays a certain amount of money every month to receive promised products or services every month or to use them indefinitely. Therefore, these results appear to be valid. It should be noted that if the reliability of the subscription service increases, the enjoyment that subscription service users feel increases. It is essential to ensure that the reliability of the subscription service can be maintained continuously. It is important to give customers a sense of satisfaction with the promised product or service every month and trust that it will continue to be so. Subscription is not just about purchasing goods or services, but about providing continuous satisfaction and reliability.

Finally, looking at the relationship between Perceived Usefulness, Perceived Ease of Use, Perceived Enjoyment and Use Intention in this study, Perceived Usefulness and Perceived Ease of Use were shown to be significant but Perceived Enjoyment was not adopted. Perceived Usefulness and Perceived Ease of Use can be determined to be necessary factors in the user's adoption of the subscription service by directly influencing the user's intention to use the service. Therefore, subscription services need to increase users' awareness of usefulness and ease of use. It was found in this study that it is possible through increasing convenience or reliability of subscription services and self - efficacy. However, even if the pleasure of the subscription service is high, it has been confirmed that it does not directly affect the user's intention to use the subscription service. In other words, customers' intention or attitude to use subscription services does not depend solely on enjoyment. In this study, it was found that users of subscription services perceived more important for usefulness and ease of use than enjoyment through subscription services when using subscription services. Therefore, it is important to first make subscription service users aware of the usefulness and ease of using subscription services before promoting enjoyment through it.

Overall, subscription services can increase user's use intention when providing users with individual recommendation service, self - efficacy, and reliability, which can be said to be factors that significantly affect usefulness and ease of use of subscription service.

This study empirically analyzes each factor by presenting a

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new research model to analyze the factors that affect the intention of using subscription services. This study has the following theoretical implications. There were few previous studies of subscription services that considered conceptual research and subscription economic characteristics, but this study was able to present new directions by applying a technology acceptance model in consideration of these characteristics. Existing research does not take into account the characteristics of the subscription economy. As a result, the same research was conducted as general online services. However, as subscription services are drawing attention as a paradigm of the new payment system, new results could be presented by attempting research considering them. In addition, this study expanded existing research and presented new directions in that it identified the relationship to the intended use through the use of extended exogenous variables and perceptual variables. At a time when users' awareness of subscription services has improved sufficiently, the results of the study are expected to be used as basic data to analyze the intentions of continuous use of actual subscribed service users.

5.2 Recommendations

A summary of the limitations and future research directions of this study is as follows.

First, this study tried to extract samples of survey respondents so that they could be evenly distributed for empirical analysis, but most of them are biased toward users in their 20s. This is because subscription economic services are a relatively recent concept and are available on the Internet, which can be used by relatively young people and unfamiliar to older people. In order to secure the generalization of the results of the study, efforts need to be made to proceed with the study considering various age group ratios. It is expected to be a meaningful study if it is analyzed as a sample of respondents of various ages for a study on the continuous use intention of subscribed service users.

Second, this study has limitations in that it focused on only the services currently being used as a representative at a time when the subscription economy market is not expanding into various fields. If the related study conducted after the subscription economy market has grown sufficiently and archived diversity, it is expected to contribute to the development of the subscription economy.

Third, because there are not many types of services that can compare the prices of subscription services, users are insensitive to price sensitivity and have no significant impact on any behavioral beliefs in this study. Subscription services will become increasingly diverse in the future. It is necessary to conduct research on how price sensitivity affects subscription user's behavioral beliefs when it is possible to compare the monthly range of different prices for the same service or prices between similar services,

Fourth, this study is based only on Korean consumers and it

is difficult to apply the results of this study globally. Therefore, it is necessary to compare and analyze users of overseas subscription services and Korean users.

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Paper ID: SR21825174318 DOI: 10.21275/SR21825174318