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RESEARCH ARTICLE

Analysis of the Influence of Cartoon Mobile Game Features on Consumers' Usage Intention the Mediating Effect of Perceived Entertainment

Kou Ningning, Wang Wenfeng, Huang Xingjun

School of International Business, Jinan University.

Abstract: In 2018, the number of anime mobile game users continued to grow. Previous scholars mainly focused on the research of the animation mobile game industry, such as the role simulation of products, interaction methods, etc., lacking research on the factors affecting consumer behavior and the mechanism of action. Based on the Technology Acceptance Model (TAM), this paper constructs a theoretical model that affects the intentions of consumers' anime mobile games through product characteristics, experience characteristics and perceived entertainment. The data was obtained through online online questionnaire survey and regression analysis. The empirical results show that the product characteristics and experience characteristics of anime mobile games significantly affect consumers' intentions, and Perceived entertainment plays a mediating role. This paper summarizes and enriches the research of the emerging field of animation mobile games, and further provides commercial advice for the animation mobile game company in terms of audience positioning and market feedback.

Keywords: Anime mobile game, Perceived entertainment, Usage intention, TAM.

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Introduction

According to the 2017 China Game Industry Report, the actual sales revenue of the Chinese game market in 2017 reached 2036.31 billion yuan, a year-on-year increase of 23.0%. With the increasing cost of user acquisition in recent years, how to increase the number of mobile game users has become a key issue for game manufacturers. In the study of online shopping for consumers, many scholars have found that the fun of shopping can increase consumers' interest in online shopping. Studies by Thong & Hong [1], Li Li, and Liu Yumei [2], have confirmed that perceived entertainment is one of the

important factors influencing the willingness of users to behave. Schmidt [3] believes that higher the customer's perceived entertainment on the website, the stronger their willingness to participate in the website. Therefore, this paper will use the rational behavior theory and technology acceptance model to conduct research on the behavior of anime mobile game consumers, and explore the influence of the product characteristics of the animated mobile game (product attribute features) experience features the on perceived entertainment. Consumers use intent to influence.

The Theoretical Basis and the Hypothesis

Perceived Entertainment

Playfulness was first proposed by Lieberman [4], and Barnett (1991) continued to study it. He has two definitions of entertainment: one is focused on the Trait of playfulness. It is considered that entertainment is a personally stimulating feature; the second definition is a state of playfulness, which is believed to be related to the experience and emotions of a certain period of time. Moon & kim [5], further based on the research of, proposed three aspects of perceived entertainment: concentration, curiosity and enjoyment. The suggestion of perceptual entertainment was first studied based on the Technology Acceptance Model (TAM) [6].

Davis believes that the use behavior is determined by the behavioral intention, and the willingness to use is determined by the attitude toward using and the perceived usefulness. The use attitude is determined by the perceived usefulness and ease of use. Cyr et a1 [7]. Studies confirm that product perceived ease of use and perceived usefulness can significantly affect consumers' purchasing behavior. Wang Chen [8] found in empirical research that perceived entertainment has a positive impact on users' willingness to use.

H₁

Perceived entertainment positively affects consumers' usage intentions.

Anime Mobile Game Product Features

Different product features will bring different experiences to consumers. The study by Eggert & Ulaga [9] confirms that product attributes are the basis for consumers to have a variety of feelings, and product functions will make customers quickly feel good. Zhang Wei [10] empirical results also show that product preference dimension perception has a significant impact on customer attitude loyalty. The TAM model indicates that

perceived usefulness is determined by the perceived ease of use and external variables, and the ease of use is determined by external variables. External variables include system design features, user features (including perceptual forms and other personality traits), task features, nature of development or execution processes, policy implications, organizational structure, and more.

The product features of the anime mobile game include game background, game system, game play, game difficulty, and other content. Based on the migration of the TAM model, we believe that the product features of the anime mobile game will affect the consumer's perceived entertainment, which in turn affects the usage intention. So we put forward the hypothesis:

H₂a

The product features of anime mobile games affect consumers' perceived entertainment.

H₂b

The product features attribute of anime mobile game affects consumers' usage intentions.

Anime Mobile Game Experience Features

Theory of Reasoned Action (TRA) [11] argues that an individual's actual behavior can be reasonably determined bv behavioral intention to some extent. and the individual's behavioral intention is determined attitudes towards behavior and subjective norm. The theory of planned behavior retains this view and adds perceptual behavioral control. Attitude is people. Positive or negative emotions held by a certain target behavior. Hassenzahl [12] research shows that users.

The experience has a significant impact on product satisfaction, loyalty and stickiness. Dovonan & Rossite[13] found that the pleasure experienced by consumers in the shopping environment is a reflection of the

customer's staying time and willingness to pay in the environment. Significant positive impact. People will use anime mobile games mainly for spiritual needs, and different bodies at different stages. Different character will have a different experience requirement. We propose the following hypothesis:

H₃a

The experience features of anime mobile games affect consumers' perceived entertainment.

H₃b

The experience features of anime mobile game affects consumers' usage intentions.

Theoretical Model

This paper combines the technical continuous theoretical model and proposes a model, as shown in Figure 1:

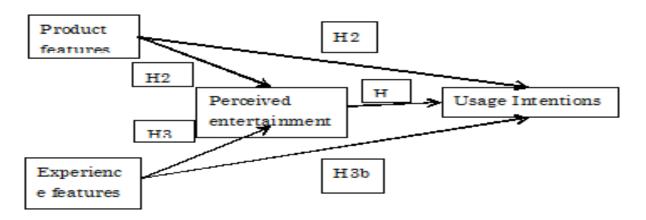


Figure 1: Theoretical model

Research Design

Variable Measurement

The study involved four measured variables, namely product features, experience features, perceived entertainment and usage intentions. The variables used were from existing literature, and these variables were adjusted according to the research scenarios of this study. Using the Likert scale, 1 to 5 represents the lowest to highest level, 1 means complete disagreement, and 5 means complete agreement. The specific measurement items are as follows:

Table 1: Measured variables

Measured variable	Probl-em	Measurement problem	Source
product features	B11	I think the more innovative and diverse the	
		animation game, the more attractive I am.	
	B12	I think the art design of an anime mobile game can	
		attract me.	
	B13	I think the soundtrack and sound effects of an	
		anime mobile game attract me.	V: Vi [14]
	B14	I think the more colorful and interesting the	Yin Yexing [14]
		personalized egg set in an anime mobile game, the	
		more attractive it is.	
experience	D1	I think playing anime mobile games can make me	
features	B1	look very fashionable.	

	B2	I feel very satisfied and fulfilled when I play an	
		anime mobile game.	Zhang Hao [15]
	В3	Playing anime mobile games can help others	
		understand my personality and taste better	
	B4	Playing anime mobile game makes me think that I	
		am a character in the game, with personality	
		characteristics similar to ta	
perceived	A6	I think anime mobile games are fun.	
entertainment	A7	I am very curious about some anime mobile games.	Tan[16]、Fan Xiaoping [17]
usage intentions	E1	If there is an anime mobile game I like, I will	
		definitely use / buy	Agarwal&Karahan,2000,chen et al. 2002
	E2	I will recommend my favorite anime mobile game to	[18]
		my friends.	Choi,etal.2003;Davis,1989;Hackbarth.et.al,
	Е3	I think it makes sense to play an anime mobile	2003 [19]
		game.	

Sample Source and Analysis Method

The data comes from questionnaires filled out by game enthusiasts from different occupations in different regions of the country. This survey is conducted online. There were 322 valid questionnaires after eliminating the invalid questionnaire. In the data analysis method, this paper mainly uses PLS statistical software for reliability and validity analysis and statistical analysis. Finally, carried out the structural equation modeling and tested the relevant hypotheses.

Data Analysis Reliability and Validity Analysis

Table 2: Reliability and validity analysis data

	Cronbach's Alpha	AVE	Composite reliability	Communality	R Square
product features	.913	0.794700	0.939297	0.794700	
experience features	.870	0.721157	0.911779	0.721157	
perceived entertainment	.835	0.858062	0.923609	0.858062	0.509777
usage intentions	.778	0.693334	0.871389	0.693334	0.462198

It can be seen from the table that the AVE of product features, experience features, perceived entertainment, and usage intentions are all greater than 0.5, and the other three variables are greater than 0.7

except for the use intention, and the Cronbach's Alpha is greater than 0.8. The scale used in the study has good reliability, that means the collected data is of high quality, meeting the requirements for further

analysis; product features CR=0.939, experience features CR=0.912, perceived entertainment CR=0.934, usage intentions CR=0.871 More than 0.7, so the questionnaire has a good combination of reliability; in the common factor test, product features = 0.794> 0.5, experience characteristics = 0.721 > 0.5, perceived entertainment = 0.858 > 0.5, usage

intentions = 0.693 > 0.5. It shows that the estimated effect of the reflective external relations in the model satisfies the general condition requirements, and it can be considered that the latent variables have a better reflection effect on the respective measured variables.

Table 3: Correlation coefficient between variables and square root of AVE

Variable	Product features	Experience features	Perceived entertainment	Usage intentions
product features	0.8915			
experience features	0.254438	0.8492		
perceived entertainment	0.572430	0.558336	0.9263	
usage intentions	0.498068	0.539333	0.592615	0.8327

The results in Table 3 show that there is a good correlation between the variables. It can be seen that the square root of the AVE value in the model is greater than the correlation coefficient between all latent variables,

satisfying the test conditions of the discriminant validity, so the variables have good independence and distinction.

Structural Equation Model Analysis

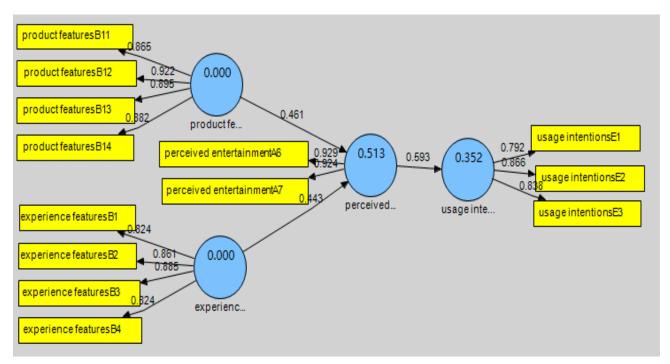


Figure 4: Factor loading and regression path coefficients

As can be seen from Figure 4, the products B11, B12, B13, B14 have a good product features, the factor load is 0.860, 0.932, 0.898, 0.883, respectively; the regression coefficient of product features and usage intentions is 0.268, indicating Whether the consumers of anime mobile games will continue to use the anime mobile game products is indeed related to the characteristics of the products themselves, assuming that Hypothesis 2 is established.

Experience B1, B2, B3, and B4 items are very good for the experience features. The factor loads are 0.828, 0.854, 0.889, and 0.824, respectively. The experience features are positively related to the usage intentions. The correlation coefficient is 0.328, indicating that consumers will be because of them. For the different experience of the anime mobile game, decide whether to continue to choose the product, so assume that Hypothesis 3 is established.

The use of E1, E2, E3 items is a good indication of the usage intentions; the factor load is 0.796, 0.860, and 0.841. When we added the variable of mediation variable perception entertainment, the perceived entertainment A7 and A8 items expressed the perceived entertainment well, with factor loads of 0.974 and 0.929, respectively.

It can be seen that the correlation coefficient between product features and perceived entertainment is 0.460, the correlation coefficient between experience features and perceived entertainment is 0.441, and the correlation coefficient between perceived entertainment and usage intention is 0.256. It shows that the consumer's usage intention the anime mobile game is indeed influenced by the perceived entertainment. Hypothesis 1 is established.

Conclusions and Prospects

Conclusions

Based on the technology acceptable model, this paper explains and analyzes the consumer behavior of the animation mobile game market. The research results show that the product features and experience features of the anime mobile game significantly affect the consumers' intentions, and the consumers care more. The art design of anime mobile games and the features of their own personality when using products indicate that they care more about interaction, and the mediation variables show that the more they can bring them curious and interesting products, the more they are willing to use them.

Or recommend it to a friend. Emerging industries need theoretical guidance, and I have read a lot of literatures and found that there are not many such studies, and there are few studies on player behavior. One of the major contributions of this paper is to fill the gap in the field of animation games.

Limitations and Prospects

There are three research shortcomings in this study. Firstly, only the technology acceptance model and rational behavior theory are used to explain the behavior of anime mobile games, and this phenomenon has not been explained from more angles. Secondly, this study uses a sample of some games. The popular player sample has an advantage in internal consistency and can greatly eliminate other external interference factors.

However, there is no data analysis for professional e-sports players and niche players. In this case, high-end players may differ from the experience of mass players. Finally, this study does not consider the impact of different consumer types on the results, such as: gender, occupation, etc. Many game manufacturers have found a broad market for female players, and most scholars study the phenomenon of "her era".

The influence of anime mobile game products on consumers' willingness to use and the use of theoretical knowledge to explain and analyze, is aimed at most mobile game players, of course, there may be new discoveries after consumer classification

analysis.

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