The Influence of Online-Store Cue on Consumers Perceived Quality and Online Purchase Intention

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Abstract

Purpose - The purpose of this research is to find out the relationship between cue utilization and perceived website quality and purchase intention for an online store. To achieve this, we suggest a conceptual model that examines the relationship among product introductions, online communications, online reviews, perceived quality, and online purchase intention.

Research design, data, and methodology - This research utilizes SPSS 19.0 and AMOS17.0 to analyze the data. We used factor analysis to shape the structure of the original data and saved the information with multiple dimensions. We then deployed the AMOS software to analyze the model. We performed both factor analysis and structural equation analysis.

Results - The findings of this study show that graphic and word descriptions, online chatting, and online reviews have a positive influence on perceived quality. Furthermore, perceived quality has a positive influence on purchase intention.

Conclusions - First, detailed product information should be added to influence quality perception. Second, consumers expect a certain level of service while shopping. Simultaneously, online products reviews from consumers deserve attention as they can impact consumer purchase intention.

Keywords: Online Purchase, Cue Utilization Theory, Perceived Quality, Purchasing Intention.

JEL Classifications: M31, M15.

1. Introduction

With the continuous development of information technology and

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the Internet, e-business has made purchase free from the bondage of time and space. According to the reports from China International Network Information Center (CNNIC), Chinese netters have achieved to 420 million till June of 2010, passing 400 million marks and increasing 36 million compared with that in 2009. The Internet penetration rate has increased to 31.8% and rising2.9 percent compared with that in 2009. The rate of increase achieves 31.4% for half a year.("26th China Internet Development Statistics Situation Report." from CNNIC)

Both tangible products and intangible service have quality as the measurement to measure their value. Jacobson and Aaker (1987) find that product quality can play a strategic role and increase the marketing share, price and profit of an enterprise and make the enterprise obtain competitive advantage. Because the results of marketing competition are determined by the comments and purchase from the consumers instead of from enterprises or quality experts. The improvement of product quality need to be consumers oriented instead of enterprises oriented (Brucks, 2000). Therefore, understanding "how consumers perceive and review product quality" becomes rather important (Brucks, 2000).

The purpose of this research is to find out the relationship among cue utilization and perceived quality and purchase intention in online store. To achieve this purpose, we suggest a conceptual model which examines the relationship among productions introduction, online communication, online review, perceived quality, and online purchase intention.

2. Literature Review

2.1. Basic Concept of S-O-R Model

S-O-R Model is developed from environmental psychology by Mehrabian and Russell (1974). The model is composed of antecedents (stimulation), mediating variables (organism) and outcome variables (reaction). According to the theoretical base of the model, the atmosphere created by physical environment can not only affect internal state of the individual but also behavioral issues of the individual. Subsequently, Dovonan and Rossiter (1982) firstly introduce it into the retail situation, testing the influence of environment on the behavior of consumer. On the basis of studies, atmosphere in the retail situation affects the emotional states of consumers, and then changes the cognition and behavior of consumers.

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2.2. S-O-R Model Variable

2.2.1. Stimulus Variable

Among the research of the retail environment, researchers often consider the shopping atmosphere or store environment of the S-O-R Model as the stimulus variable. Here atmosphere refers to "intentionally control and construct the environmental elements" or "intentionally design space in order to produce a special effect on purchasers". The atmosphere elements can influence purchase much more than any other marketing techniques and it even influence the purchasing decision much more than the product itself (Kotler, 1973). Berman and Evans (1995) classify the atmosphere stimulus or element of the shopping atmosphere into four groups: store external element, internal element, design element and storefront promotion decoration element. However, based on the previous documental research, Turley and Milliman point out that there should be another group-personnel element (Turley and Milliman, 2000).

Along with the appearance of the new shopping form-online-shopping, the definition and scope of the shopping atmosphere are quietly changing. Through the research of the online-shopping by scholars, the online atmosphere refers to "intentionally designed online environment, that is, produce positive emotion and cognition during surfing on the Internet to let consumers respond positively" (Dailey, 2004).

Until now, the classification of the Internet environment basically adopts the dichotomy method, such as high task related environment and low task related environment, human factor and computer factor and so on. People like Sevgin (2001) classify the characteristics of the virtual store's environment into two groups: high task related environment and low task related environment. High task related environment is defined as the descriptors that appear on the screen and it strengthens the realization and possibility of consumers' shopping purposes. Low task related environment represents the web site information which is relatively not important for the completion of the shopping tasks. Such kind of classification is widely accepted and applied. Richard (2005) classifies the Internet environment as high task related environment and low task related environment by using SOR Model when he does his research on Internet atmosphere. Besides, he also summarizes the environmental elements, among which high task related environment includes five elements: navigation features, informative, information content validity, structure and organization; low task related environment refers to the entertaining factors.

2.2.2. Organic Variable

In the early SOR Model, researchers mainly study the impact of the environmental stimulation on the store image. Baker, Grewal and Parasurman (1994) develop store environmental elements and study how they influence the store image and consumers' assessment on product quality. In the research of online-shopping, Richard (2005) also adopts SOR Model and considers emotion and cognition as the intermediate variable. From the point view of emotion, consumers' attitude to the websites can be measured; from the point view of cognition, consumers' exploratory behavior and websites' engagement can

be measured. The research finds that the cognitive variable (websites' engagement and exploratory behavior) is influenced by the central atmosphere elements (high task related environment) and websites' attitude is influenced by the entertaining elements (low task related environment), which finally influence consumers' pre-purchasing and post-purchasing behaviors.

2.2.3. Response Variable

Under the circumstance of shopping, the response variable in SOR Model refers to the final result of the impact of stimulus variable on consumers. Among them, consumers' approach behavior and avoidance behavior are the most researched ones (Chen and Barnes, 2007). Through the review of the previous documents, we find that SOR Model is widely applied in terms of researching the impact of shopping atmosphere on consumers' behaviors. Until now, the focus of the research is transferring gradually from traditional shopping atmosphere to online-shopping atmosphere or online-store characteristics. Avoidance behavior or approach behavior, as the results of consumers' behaviors, are transferring gradually to more specific behaviors like purchasing intention, satisfaction, loyal intention and so on. Besides, when researchers admit cognition its mediating effect as an organ, at the same time, they find the importance of emotional variable and do further research and study.

2.3. Perceived Quality

2.3.1. Definition of Perceived Quality

Zeithaml (1988) believes that there are two forms: objective quality and perceived quality. Objective quality refers to the advantage and excellence level in terms of actual techniques. In this sense, objective quality could be verified through pre-established idealized standards, but the idealized standards are still difficult to define until now. Maynes (1976) believe that objective quality does not exist at all and all quality assessments belong to subjective behaviors, which strongly support the other form: perceived quality.

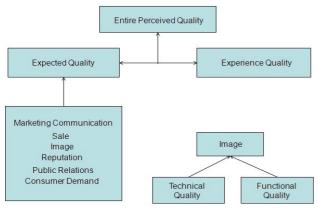
Perceived quality can be classified as the subjective concept for products established before the use of products or service through different cues and the subjective judgment after the use of products or service. This paper believes that the online perceived quality can be classified as two kinds. One is a kind of concept of products and their qualities projected by the consumers through various collections and recognitions of lots of information before their purchase. The other is a kind of objective judgment of the products through consumers' use and cognition after their purchase behavior through the Internet.

2.3.2. Model of Perceived Quality

Olson and Jacoby (1973) believe that the process of perceived quality can be divided into two stages. Firstly, consumers choose the index that can replace the product quality from some related attributes of the products and such index is called intrinsic quality hint. Then, integrate with the extrinsic quality index that is related to the prod-

ucts, such as price, store image and so on. Such kind of extrinsic quality hint is used for making the final judgment of the product quality.

Gronroos(1981), ascholar from Finland proposes the model of consumer perceived quality according to cognitive psychology. He believes that consumer perceived quality is the result of the comparison and contrast between consumers' expected quality for products and service and the experience quality. Besides, he also points out the elements that in fluence consumer perceived quality.



Soruce: Grönroos(1981).

<Figure 1> Entire Perceived Quality Model Gronroos.

2.3.3. Influencing Factors of Perceived Quality

Wheatley and Chiu (1977) discovers that price, store names, color of product appearance, consumers' income and educational level can influence perceived quality. Olson and Jacoby (1972) discuss about a series of cues that are used by consumers to deduce product quality. Such cues include extrinsic cues and intrinsic cues. Comparing with intrinsic cues, extrinsic cues are more easily obtained and accessed and their cognitive process is easier. Economists Nelson (1970, 1974), Milgrom and Roberts (1986), Schmalensee (1978) point out that the level of advertisement is related to perceived quality. Under the condition that the product quality only can be known by experience, high-intense advertisement means products with high quality. Previous researches also show that the brands with more perceived advertisements by consumers is better that those with less perceived advertisements. Dawar and Parker (1994) believe that among the cues for consumers to assess quality, the most important one is brand name, followed respectively by price, product appearance and store names which have little influence. Rao and Monroe (1989) also believe that price and brand have adjusting effects on consumers to perceive product quality. However, the store names have little influence. People like Jacoby (1971) believe that among the many cues research, cues have interaction effects with each other. For example, people like Dodds (1991) find that if there is only one cue-price, then consumers will positively correlated it with product quality. However, when other cues appear, like brand names and store ranks, then the impact of price on quality assessment becomes less.

Therefore, intrinsic cues and extrinsic cues should be both considered at the same time when measure perceived quality.

2.4. Concept of Purchase Intention

Ko and Kim(2008) understanding consumers' purchasing behavior is a key factor of a firm to attract and to retain customers and to improve the firm's prospects for survival and growth, and to enhance shareholder's value.

Online consumption and online purchase are the ultimate purpose of network operators and online stores. Purchase intention has good predictive effect on purchase behavior. Therefore, purchase intention is often used to substitute for the actual purchase behavior in many related researches (Pavlou 2003).

The concept of intention is firstly introduced from the field of psychology. Eagly and Chaiken put forward that intention is "a kind of psychological conception that is different from attitude and it represents the psychological motivation of the individuals for realizing their planned behavior". Intention is the possibility and estimated value of realizing individuals' behavior (Lee et al., 2009). Therefore, purchase intention is the predictive index of consumers' real behavior. According to the definition of Fishbein (1975), intention is the subjective probability for individuals to engage in certain behavior. On the basis of the above definition, Dodds et al,(1991) define intention as the possibility for consumers to purchase a certain product or a certain brand. They believe that consumers' attitude for a certain product or brand and the effect of the extrinsic factors compose consumers' purchase intention.

Purchase intention has its narrow and broad sense. Its narrow sense refers to buying intention which means the possibility for users to purchase on the websites (Amit et al., 2009). its broad sense refers to the situation in which people are delight and intend to participate in the online interactions (Chen and Barnes, 2007) or the trend and tendency for people to participate in the online purchase (Sukpanich, 2004; Chen and Barnes, 2007). This research adopts its broad sense, that is, purchase intention includes buying intention and revisit intention. Besides, the website recommendation is also closely related to the website purchase intention.

3. Research Method

3.1. Study Model design

According to SOR Model, extrinsic stimulus triggers response through organism. Purchase atmosphere, as extrinsic stimulus, influences consumers' cognition and emotion and further influence consumers' psychology and behavior.

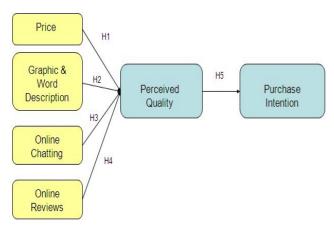
The classification of online purchase atmosphere often adopts dichotomy, for example, high task related environment and low task related environment, human factors and computer factors. Among them, high task related environment refers to all the symbols (words or pictures) that appear on the website and can urge consumers to realize their purchasing targets; low task related environment refers to the website information that does not closely related to the completion of purchasing tasks. Relevant factors of high task include words which is related to the purchasing targets (products description, price, trans-

action terms, comments, delivery and return policy), product picture, effective samples and so on; relevant factors of low task include words which is not related to the purchasing targets, color, boundary and background type, style and typeface, animation, music, entertainment (games or competition), white space, icon, image maps, decoration pictures, linkage directives, web unity, visit counter, website rewards and community alliance (Erogle et al., 2001).

The study of traditional purchase atmosphere is relatively mature. The traditional environment classification usually adopts trichotomy put forward by Baker (1986): design factors, human factors and surrounding conditions. Design factors refer to the essentially visible factors (such as layout, color, cleaning and space and so on); human factors refer to others who appear in stores (salesmen, shopping companions and other consumers); surrounding conditions refer to those invisible factors which also exist in the surrounding, such as smell, light and temperature and so on (Hausman and Siekpe, 2009). Online purchase is different from the traditional purchase. Consumers carry on their shopping activities mainly through the computer, therefore, the surrounding condition factors do not exist now. However, with the progress of the technology, the communication among people will become more and more active.

According to cue utilization theory, cues can be divided as intrinsic cues and extrinsic cues. Intrinsic cues include the size, shape and smell and so on of products; extrinsic cues belong to attributes which is related to the products, including price, advertisement, brand names and so on. Both intrinsic cues and extrinsic cues are the information that the products intend to transmit to the external world. Consumers perceive products' quality through the collection and analysis of the cues.

In conclusion, after screening, The relation among these variables shown in the following chart:



<Figure 2> Research Model

3.2. Research Hypothesis

3.2.1 The Influence of Price on Perceived Quality

In economics, price is always considered as the restraint of purchase and has negative effects on purchase, for high price only lead consumers buy less products and service. However, from the psychological point of view, price can convey a certain message to consum-

ers, for example quality information. Therefore, price becomes one of the attributes of products (Erickson and Johansson, 1985). Price becomes a part of products and also one of the basic cues which are used by consumers to assess product quality (Olson, 1972).

Though there are a lot of studies about price-quality (Rao and Monroe, 1989), there is few research that can clearly show when and under what circumstance should consumers' judgment on quality be attributed to price or other information (Rao, 2005).

People like Wheatley (1981) and Dodds find the relation between price and perceived quality is linear. People like Shiv (2005) find that price can play the role of "placebo" in consumers' assessment of product quality. High price causes consumers' higher expectation for quality, thereby, consumers take for granted that products with high quality means products with good quality.

Hypothesis 1: The higher the price, the higher the perceived quality from consumers. Price will have positive influence on perceived quality (+).

3.2.2 The Influence of Graphic and Word Description on Perceived Quality

Kotler and Keller(2009), Advertising is any paid form of non-personal presentation and promotion of ideas, goods or services by an identified sponsor. From the above definition, the graphic and text display of online stores has the same level function of advertisement except for there is no need to pay for it. Besides, the description and photos of online stores not only include the experience of sellers themselves, but also more descriptive words, photos and videos quoted by sellers from officials of the products.

Billy Bai (2008) thinks that purchasing information, product information and information quality and so on can influence consumers' satisfaction and delight and further influence consumers' purchase intention. Jean Ethier (2008) studies the relation between interface design and emotion of B2C website, finding that website information influences consumers' whole assessment for online purchase and at the same time, it is influencing consumers' online estimating ability and controlling ability. Marquardt and McGann (1975) find that products with more advertisement have positive correlation with product quality. Consumers take level of advertisement put-in as the signal of product quality. The high advertisement put-in becomes the signal of high quality and the signal of being worth purchasing.

Hypothesis 2: The more detailed graphic and word description, the higher perceived quality from consumers.

Graphic and word description will have positive influence on perceived quality(+).

3.2.3 The Influence of Online Chatting on Perceived Quality

The sellers own the real information of the products, which can make them assess the products' quality objectively. Thus, the information asymmetry about product quality between purchasers and sellers are formed (Akerlof, 1970). Because sellers are those who have the closest relation with consumers, sellers are in the central po-

sition of establishing and developing good relationship between buyers and sellers (Levitt, 1983; Macintosh et al., 1992; Boles, 2000). With the continuous development of the Internet and the continuous renewal of network communication methods, the online chatting between the consumers and the sellers has been realized. Sellers, as the carrier of product information, will be firstly asked for the answers needed by the consumers when they doubt on the products.

Hypothesis 3: The more detailed online chatting between consumers and sellers, the higher perceived quality. Online chatting will have positive influence on perceived quality (+).

3.2.4. The Influence of Online Reviews on Perceived Quality

Stafford (1966) believes that in the process of making purchasing decision, the cognition of consumers themselves plays a leading role. However, many extrinsic factors can influence consumers on their cognition for products and their purchase intention, among which the influence of reference group on consumers is included. Reviewers, as the reference group of online stores, also belong to the purchasers who buying the same kind of products in the online store. Both the positive and negative comments of stores and products are the related information that is transmitted to the consumers. It is such kind of comments and reviews that compose the reputation of the online stores. All the reviewers have already gotten the products of the online stores, then, they can provide relatively objective comments on quality.

Hypothesis 4: The more the quantity and quality of online reviews are, the higher the perceived quality of products from consumers. Online review will have positive influence on perceived quality (+).

3.2.5. The Influence of Perceived Quality on Purchase Intention

The conclusion of the previous researches finds that perceived quality mostly together with perceived risk have an impact on perceived value, while, perceived value has an impact on purchase intention or purchase behavior (Zeithaml, 1988; Dodd et al., 1991). People like Dodds believe that the relation among perceived quality, perceived value and purchase intention is positive correlated. However, this paper, which is based on S-O-R Model, believes that perceived quality as the variable, converts into response variable-purchase intention through a series of process like the recognition and analysis of cues and the assessment of products.

Hypothesis 5: The better perceived quality from consumers, the stronger purchase intention.

3.3. Instruments Development Procedure and Measures

There is much extrinsic stimulus influencing consumers' online shopping. This research integrates the specific situation of consumers' online shopping with cue utilization theory and chooses product price, graphic display, online chatting and others comments. Product price can be copied from Ailawadi, Neslin and Gedenk (2001) through four questions to measure; graphic display can take reference from Rook and Fisher (1995) through four questions to measure; online chatting is from Coulter (2002) through five questions to measure; online comments take reference from Chatterjee (2001) through four questions to measure. As to the measurement of organic variable perceived quality, this paper mainly based on Dodd et al (1991) through three questions to measure. Response variable purchase intention takes reference from Sukpanich (2004) through four questions to measure. The questionnaire of this paper mainly uses the five measurements of Likert. There are seventeen questions for the extrinsic stimulus part, three questions for organic variable and response variable respectively to measure.

< Table 1> Summary of Instruments

	Summary of Instruments	D.C		
Variable	İtem	Reference Source		
Price	It is important for me to buy the satisfactory products in terms of price.	Qi		
	I will not buy products with too low price.	(2006)		
	I will compare different companies' price when I am buying certain products.	(2000)		
	XX products are worth their prices.			
Graphic Display	I will have strong purchase desire when I see elegant graphic and text display.	Rook and Fisher		
1 3	The more detailed graphic and text display of products, the higher quality I will feel.	(1995)		
	The more graphic and text display of products, the more trusting \boldsymbol{I} feel.			
	I prefer to visit websites with more graphic and text display.			
Chatting	The seller can deal with my demand.	Coulter		
	The seller can reply my questions immediately.	(2002)		
	The seller can provide professional suggestion for my questions.	Coulter et al.		
	The seller has abundant experience and knowledge in this field.	(1998)		
	The seller can listen to my talk carefully and get known my questions.			
Comments	Comments for this merchant are all objective.	Chatterjee		
	Comments for this merchant are all understandable.	(2001)		
	Comments can reflect the latest product information.			
	Comments provide a lot of useful information.			
Perceived	Quality of X product.			
Quality	The possibility of X product to be assuring	al. (1991)		
	The reliability of X product			
Purchase	I may visit this shopping website again in the future.	Sukpanic		
Intention	Intention I may recommend this website to my friends.			
	I may visit this website frequently in the future.	(2004)		

4. Data Analyses and Result

4.1. Demographic Analyses

This research mainly adopts instant chatting tools and E-mail to finish the issue and collection of the questionnaire. Finally, there are 357 copies being collected.

First of all, most of the informants have ever done online shop-

ping in Taobao. Secondly, the difference of gender in this research is not significant with the proportion of the female is a little higher than that of the male-129 male (43.0%) and 171 female (57%). The career distribution of the informants is relatively equal with 65 technological workers (21.7%), 62 students (20.7%), 61 the self-employed (20.3%), 53 from sales and service (17.7%), 42 officials (14.0%) and 17 affairs professionals (5.7%). The education level of the informants is mainly bachelors' degree. As to the income, there are 117 (39.0%) between 3000 and 5000 RMB (1CNY \approx 165KER), 89 (29.7%) between 2000 and 3000 are 53 (17.7%) below 2000. The current location of the informants is relatively equal, with 98 (32.7%) in Beijing,95(31.7%) in Shanghai,107(35.7%) in Liaoning. As to the time for visiting websites, there are 212(70.7%) less that 5 hours per week. There are 144(48.0%) buy products like clothes, shoes and hats or something like these.

4.2. Reliability and Validity Analysis

In order to measure the validity of factors, this research adopts the exploratory main elements analysis. In order to extract the structural elements for all factors, it adopts principle component analysis.

Cronbach's α was used for testing reliability of measures. Based on the benchmark built by Bagozzi and Yi (1988), cronbach's α over .60 indicates high construct reliability. In the research <Table 3> and <Table 5> indicated that all the values of cronbach's α are over .70, which demonstrate adequate construct reliability student data. And Validity of the data was checked through EFA (Exploratory Factor Analysis). KMO are both over 0.6.

< Table 2> Cronbach's a, KMO and Exploratory Factor Analysis of cues

	Component			Cronbach's	
	1	2	3	4	α
Description 4	.904				.804
Description 3	.864				
Description 1	.858				
Description 2	.658				
Online Chatting5		.804			.856
Online Chatting2		.795			
Online Chatting4		.741			
Online Chatting1		.689			
Online Chatting3		.675			
Online Reviews 4			.837		.808
Online Reviews 2			.786		
Online Reviews 3			.780		
Online Reviews 1			.771		
Price 3				.842	.736
Price 2				.761	
Price 4				.747	
Price 1				.661	
	3.694	2.545	2.280	2.199	KMO
% of Variance	21.732	14.970	13.411	50.113	.663
Cumulative %	21.732	36.702	12.938	63.051	
Item	Component			Cronbach's	
		1	2	2	α
1	.927				.904
Perceived Quality 2	3.	343			
Perceived Quality 3	3.	335			
Purchase Intention 3			.8.	55	.859

Purchase Intention 1		.847	
Purchase Intention 2		.825	
Total	3.914	1.026	KMO
% of Variance	65.238	17.102	.793
Cumulative %	65.238	82.340	

4.3. Confirmatory Factor Analysis

Our measurement model provides a satisfactory fit to the data, which resulted in $\chi 2$ (74) = 194.033, which is statistically significant (p < .001). The fit indices are as follows: Normed fit index (NFI) = .885; incremental fit index (IFI) = .925; comparative fit index (CFI) = .924; Goodness-of-fit index (GFI) = .926; and root mean square error of approximation (RMSEA) = .074, indicating high level of validity of the measures. According to Stevens (1992) it was decided to consider all factor loadings = or > 0.25 as significant. Thus, the measures of the sports customers' data demonstrate adequate convergent validity.

< Table 3> Analysis for Measurement Items

Factor	Items	Standardized factor loading
	Price1	.416
Price	Price2	.649
	Price3	.941
Description	Description1	.551
	Description3	.396
	Online Chatting2	.976
Online Chatting	Online Chatting3	.474
	Online Chatting4	.450
	Online Review1	.897
Online Review	Online Review2	.707
	Online Review3	.480
Perceived Quality Perceived Quality2		.756
	Perceived Quality3	.695
Purchase Intention	Purchase Intention1	.839
	Purchase Intention2	.836

Model fit index: χ²=194.033,df=74,NFI=.885,IFI=.925,CFI=.924,GFI=.926,RMSEA=.074

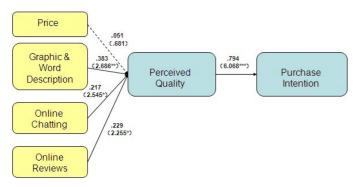
4.4. Model and Hypotheses Testing

To test the hypotheses, structural equation modeling with the maximum likelihood estimation method (Bollen, 1989) is employed, using the model without moderator. Anderson and Gerbing's (1988) two-step approach is followed in structural equation modeling, for which the estimation of a confirmatory measurement model must precede the simultaneous estimation of the measurement and structural sub-models. Based on confirmatory factor analysis results, the research model is tested with standardized coefficients and other fit statistics. To assess the differential effects, standardized coefficients are reported as path coefficients.

<Table 4> Results of Model Testing

χ^2	df	GFI	NFI	IFI	CFI	RMSEA
195.123	76	.924	.884	.926	.924	.072

*p<.05, **p<.01, ***p<.001



<Figure 3> Results of Hypotheses Testing

4.4.1. Model Testing

Examination of the overall model fit reveals the Chi-square statistic ($\chi^2 = 195.123$, df = 76) at a significant level (p<.001). The fit indices are as follows: NFI = .884, IFI = .926, CFI = .924, GFI = .924, RMSEA = .072. Based on the cutoff criteria of Hair, Anderson, Tatham, andBlack(1998),it is concluded that the research model fit the data reasonably well.

4.4.2. Hypotheses Testing

As seen in <Table 5>, the standardized coefficient from price to perceived quality was found to be .051 with C.R of .681, which was not significant. The standardized coefficient from description to perceived quality was found to be .383 with a C.R of 2.686 which was significant (p < .01). The standardized coefficient from online chatting to perceived quality was found to be .217 with C.R of 2.545 which was significant. The standardized coefficient from online review to perceived quality was found to be .229, with C.R of 2.255 which was significant (p < .05). Finally, the standardized coefficient from perceived quality to purchase intention was found to be .794 with C.R of 6.068 which was significant (P< .001). Thus, our research hypothesis 2, hypothesis 3, hypothesis 4 and hypothesis 5 were supported based on the results of the analyses summarized above.

4.5. Summary of Hypotheses Test

Based on the data analysis results, the summary of the results is concluded in <Table 5> and <Table 6>. For Chinese consumer, H2 (Graphic and word description will have positive influence on perceived quality), H3 (Online chatting will have positive influence on perceived quality), H4 (Online review will have positive influence on perceived quality), H5 (Perceived quality will have positive influence on purchase intention) were found to be supported based upon results of analyses mentioned above.

Thus, there analyses in hypotheses testing suggest following finding:

- a. Price does not have positive influence on perceived quality.
- b. Graphic and word description has positive influence on perceived quality.
- c. Online chatting has positive influence on perceived quality.
- d. Online review has positive influence on perceived quality.
- e. Perceived quality has positive influence on purchase intention.

< Table 5> Standard Coefficients and T-value for Each Path

No.	Hypotheses	Standard	C.R.	P
		Coefficient		
1	Price →Perceived Quality	.051	.681	.496
2	Description →Perceived Quality	.383	2.686	.007
3	Online Chatting →Perceived Quality	.217	2.545	.011
4	Online Reviews →Perceived Quality	.229	2.255	.024
5	Perceived Quality →Purchase Intention	.794	6.068	.000

< Table 6 > Summary of Results for Hypotheses Testing

No.	Hypotheses	Results
1	Price will have positive influence on perceived quality	Not Support
2	Graphic and word description will have positive	Support
	influence on perceived quality	
3	Online chatting will have positive influence on perceived	Support
	quality	
4	Online review will have positive influence on perceived	Support
	quality	
5	Perceived quality will have positive influence on	Support
	purchase intention	

4.5.1. Interpretation of Hypotheses Test Results

As for the cue utilization issue when consumers form the perceived quality, although scholars have certain knowledge, their results are greatly different in many aspects. During their studies, scholars use different products and adopt different interviewees. Both the characteristics of products and statistics of the interviewees have important effect on cue utilization. As to the problem of the disaccord of price-perceived quality which is studied more among the scholars, Rao and Monroe (1989) do relevant research and put forward four causes that may influence the disaccord, that is, number of cues, experimental design, price manipulation and price level. However, this paper believes that different attitudes towards price according to different incomes in different areas can also lead to the disaccord of influence of price on perceived quality.

Through the study, we conclude that cues (information) can also influence consumers' judgment on perceived quality under the background of online stores. Price has no effect on perceived quality during the online purchase. While, the graphic and word description of the products can, to large extent, influence consumers' cognition of product quality. Online review has relative less influence on perceived quality. Although people can provide relatively objective information, consumers have little trust towards the online strangers. Therefore, online review can only play an influencing role instead of determining role for consumers' perceived quality. Similarly, online chatting with sellers has effect on consumers' perceived quality. According to consumers' online purchasing habits, they always firstly browse the relevant information about the products on the websites, and if there are more detailed or puzzled questions, they communicate with the sellers. Or if consumers intend to know some information relevant to purchase not products (logistics, after-service, return policy and so on), they have to chat with the sellers online. Therefore, online chatting with sellers may have little effect on consumers' perceived quality.

5. Conclusion and Implication

5.1. Summary of the Research

This paper mainly focuses on the influence of cues of online stores on consumers' perceived quality under the circumstance of online-shopping environment.

Based on the data analyses results, the summary of the results are follows.

H2 (Graphic and word description will have positive influence on perceived quality), H3 (Online chatting will have positive influence on perceived quality), H4 (Online review will have positive influence on perceived quality), H5 (Perceived quality will have positive influence on purchase intention) were found to be supported based upon results of analyses.

Model and hypotheses testing was conducted by using AMOS 17.0. Following finding were drawn from results of these analyses: first, price does not have positive influence on perceived quality. Second Graphic and word description has positive influence on perceived quality. Third, online chatting has positive influence on perceived quality. Forth, online review has positive influence on perceived quality. Fifth, perceived quality has positive influence on purchase intention.

5.2. Implications

With people's acceptance and approval for the online purchasing form, the number of shopping websites is increasing continuously. The diversification of shopping websites makes the competition among online stores more and more serious. In order to attract more consumers and promote their purchasing intention, this study has the following guiding significance on the reality:

First of all, product information should be added. As to the product or service information provided by the websites, if they are comprehensive, timely, and easy for understanding, then consumers can learn about the relevant information of the products and service quite well. And then, they can know the product quality better and make right decision. What's more, the online stores should update the product information in time, provide latest product information and describe products and service clearly and comprehensively in order to let consumers have a thorough knowledge of the products they want.

Secondly, when people are shopping, they hope not only to buy the products they want, but also to obtain good service. The interaction among online people can let consumers feel like they are actually in the game, as if they are in real stores. It is a timely and effective supplement for the omission of information by communicating with the sellers face to face. Therefore, it is suggested that online stores also should keep closed connection and timely interaction with consumers.

At the same time, online review on the products from consumers deserves a certain attention, which can have an effect on consumers who have purchasing intention. If the online review is more about the positive description of product quality, it will make the products leave better impression to consumers. By contrast, if the online re-

view is more about the negative ones, it will make the products leave negative impression to consumers. The sellers can do advance evaluation of the products through the situation of online review in order to adjust price or reduce the number of the sales of this products.

The academic significance lies in introducing the concept of perceived quality into online-shopping environment and testifying that cue utilization can also influence the perceived quality of products.

5.3. Limitations and Future Research Recommendations

Although this study has made a certain achievement, there are some shortcomings which are mainly reflected in the following aspects:

- This study only focuses on the young group in Beijing, Shanghai and Liaoning anditonly focuses on eastern part of China to do sample analysis.
- This study does not do further research under the trans-cultural background and does not do comparative study of multicultural background or the consumption status of the transnational consumers.
- 3. This paper mainly focuses on the influence of cues (information) on perceived quality and the influence of perceived quality on purchase intention, without introducing perceived risk or perceived value which belongs to other situations that influence consumers' purchasing intention at the same time.

Based on the above limitation, the author believe that there is still existing some space for further discussion according to the following aspects: 1. Comparative study can be conducted among different regions, different cultures and different countries in order to examine wider attitude for perceived quality and purchasing intention among consumers. 2. In the future study, the construction of websites will inevitably have new functions and characters. The elements of online shopping will change. The further study can do some addition or deletion according to the changes.

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