Impact of Perceived Risk on Online Impulse Buying Tendency: an Empirical Study in the Consumer Market of Pakistan

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Abstract

The purpose of this paper was to investigate influence of perceived risk (financial risk, product risk, convenience risk and non-delivery risk) on online impulse buying tendency. Web-based survey was conducted for data collection using online questionnaire distributed through stratified random sampling technique from online consumers of Pakistan. A total of 200 valid responses were gathered and the data was analyzed by using SPSS software and demographic statistics, correlation and regression tests. The proposed hypotheses were confirmed through data analysis results. Overall perceived risk, financial risk and product risk were found to have a moderately negative association with online impulse buying tendency whereas convenience risk and non-delivery risk had negative but weaker association with online impulse buying tendency.

Keywords: Online impulse buying tendency; Perceived risk; Product risk; Financial risk; Convenience risk; Non-delivery risk; Online consumer behavior; Pakistan

Introduction

The success of ecommerce has paved ways for elaborate research to understand consumer behavior in online context. Marketing philosophers and practitioners are interested in gaining insights to all factors that influence online purchasing and how these shopping patterns are formed. The most influential aspect that encourages consumers to buy their desired products online is convenience, since online stores are operational 24/7 and it is easier to compare products offered by numerous sellers worldwide [1]. As compared to traditional shopping, consumers do not have to face issues like store location and product availability while shopping online [2]. The advantages offered by online shopping are favoring consumers but quite often they encourage impulsiveness in online decision making which is beneficial for vendors [3]. Ecommerce is growing at rapid pace which makes a deeper understanding of impulse purchasing over the internet progressively significant [4].

Impulsive purchasing behavior is generally referred to as a rapid, persuasive and hedonically complex buying behavior that does not involve thoughtful consideration of alternate choices and existing information [5]. Significant research studies have been conducted on factors influencing impulse buying in traditional stores, however, from the perspective of online stores; the research on this important construct has been limited. The phenomenon of online impulse buying behavior has gained popularity in recent times since researchers are actively exploring new dimensions of consumer behavior that affect impulse buying in online context [6]. Consumers are more likely to overspend money while shopping online due to special attributes associated to virtual transactions thus merchants are often able to generate high profits as a result of online impulse buying behavior of their consumers [7]. The tendency to buy impulsively turns out to be a very strong predictor that encourages impulse buying behavior [8].

Impulse buying tendency can be defined as the extent to which a person is likely to make instantaneous, unintentional and unreflective purchase [9]. Buying impulsive tendency is not only a basic human trait, but it also varies from person to person [10]. There can be several aspects that hinder the impulse buying tendency to turn into actual purchase behavior; one of them is the risk perception by consumer while shopping online [11]. The risk perception in any form including fear of getting personal information getting leaked out, not being able to examine the product physically, not getting physical exposure to the outlet and the risk of not getting exactly same product as displayed on the virtual store might significantly affect the purchasing behavior of online consumers [12]. Although, a comprehensive understanding of how perceived risk influences impulse buying tendency in online context is essential for marketers to gain competitive advantage, literature pertaining to this domain is scarce. The present study attempts to fill out this gap in literature by investigating the relationship between perceived risk and online impulse buying tendency from the perspective of a developing country, Pakistan.

The current study is of significant importance since it specifically focuses on impulse buying tendency instead of impulse buying behavior and that too in online context, contrary to most of previous studies that have targeted impulse buying behavior in traditional and online shopping. This paper begins with a review of literature on online impulse buying tendency and perceived risk. After that a theoretical framework is established followed by proposed hypotheses. Methods for data collection and hypotheses testing are discussed leading to results and discussion. The paper concludes with discussing theoretical and practical implications and directions for future research.

Literature Review

Online impulse buying tendency

Rook and Fisher [9] identified impulse buying tendency to be a basic characteristic of consumers. This phenomenon has been comprehensively defined as “a consumer’s tendency to buy spontaneously, unreflectively, immediately, and kinetically”. Impulse
buying tendency is a strong predictor of actual purchase behavior and as this tendency increases, the likelihood of consumers indulging into impulse buying behavior also increases [13]. The motivation behind consideration of impulse buying tendency instead of impulse buying behavior for the purpose of this research is that tendency to buy impulsively is a representation of how different consumers think and act distinctly in an identifiable manner [14]. The reaction in response to a sudden impulse to buy is very strong by some people while others don’t react at all. Those with a high inclination towards sudden impulse have openness towards unanticipated purchasing ideas and quite often find instant delight and emotional attraction towards the product [9]. Although, this makes it pretty simple to understand that consumers with high level of impulse buying tendency will positively respond to buying impulses, this relationship is not straight forward since several factors might restrain this tendency to turn into actual behavior. In other words, even the consumers with high impulse buying tendency might not be showing impulse buying behavior all the times due to numerous factors like time pressure, economic feasibility and social influence [15].

There is a positive association of impulse buying tendency with lack of control, stress reaction and absorption [16]. Cultural values are observed to have a significant influence over buying impulsive tendency since this tendency has a stronger linkage with impulse behavior in individualistic culture as compared to collectivistic culture [17]. Impulse buying tendency is found to have a strong correlation with age and availability of pocket money [18]. Impulse buying exists over the internet as well; however the tendency to buy impulsively might be somewhat different in online context as compared to conventional stores due to special traits accompanying online shopping. For example, risk perception about the product is very different while shopping online than traditional shopping. Prior studies on impulse buying tendency have primarily focused on factors that are positively associated with buying impulsive tendency, developed countries and offline context. In the present study, focus is on factors that might hinder tendency to buy impulsively online from the perspective of a developing country in an attempt to contribute towards consumer behavior literature.

Perceived risk

Perceived risk can be explained as consumer’s consciousness of insecurity and contradictory consequences as a result of buying a product or service [19]. Peter and Tarpey [20] defined it as “The probability that the purchase of the product will result in the displeasure of the consumer”. There are more risks and suspicions associated with online shopping than offline context [21]. There are different components of risk perception [22] but for the purpose of current study financial risk, product risk, convenience risk and non-delivery risk have been considered as dimensions of risk perception for a comprehensive understanding. The perceived risk is found to negatively influence consumer’s online shopping intentions [23,24] whereas lower level of risk perception leads to preference of online shopping [25,26]. It is hypothesized that overall perceived risk has a negative relationship with online impulse buying tendency.

Financial risk

The probability of suffering monetary loss as a result of purchasing a product or service is termed as financial risk [27]. Online consumers are concerned about their credit card information getting leaked out or they might get over charged by the vendors. Financial risk also refers to probability of not getting the lowest possible price for the selected product from a particular online store [28]. Previous studies have identified a negative relationship between financial risk and intention to purchase online [28,29]. It is therefore hypothesized that perceiving financial risk has a negative linkage with online impulse buying tendency.

Product risk

Peter and Tarpey [20] explained product risk as the likelihood that the chosen product will fail to meet the formerly anticipated requirements. Online consumers might be doubtful about whether or not they will be delivered exactly the same product as displayed on the online store or it might not come up to their expectations. Higher the intangibility of the product, greater will be the risk perception [30,31]. Frequency of online shopping is significantly influenced by perceived product risk [32]. For certain product categories, the level of insecurity negatively affects the buyer’s intention to make a purchase decision online [33,34]. The review of literature suggests that a negative relationship between product risk and online impulse buying tendency can be hypothesized.

Convenience risk

The potential loss of time while searching, comparing and buying products online is described as convenience or time risk. Convenience risk can be referred to as loss of time taken by the website pages to download which can be irritating for online consumers [32] and it is also explained as difficulty in operating the website that might be caused due to an online store which is difficult to navigate or provides ambiguous information about the products [35]. Although, perceived convenience risk does not have a stronger influence over online purchase behavior as compared to other dimensions of perceived risk such as financial and product risk, still it has a considerable impact over adaption to ecommerce [36,37]. It can be hypothesized that perceived convenience risk has a negative relationship with online tendency to buy impulsively.

Non-delivery risk

The probability of not getting the product after completing online transaction and making payment to the online store is described as non-delivery risk. Consumers quite often find uncertainty while dealing with relatively new online merchants while making payments due to risk that vendors will not deliver the product to them. Few studies in the domain of online consumer behavior have found a significant and negative influence of non-delivery risk over online buying behavior [38]. Based on previous findings, it is hypothesized that perceiving non-delivery risk has a negative influence over online impulse buying tendency.

Conceptual Framework

The proposed conceptual framework for present study comprises of four independent and one dependent variable. The four independent variables are dimensions of perceived risk which are financial risk, product risk, convenience risk and non-delivery risk. All these dimensions add up to give a combined effect of overall perceived risk. The only dependent variable in the framework is online impulse buying tendency (Figure 1).

Methodology

The study followed positivist paradigm, deductive approach and quantitative techniques as adopted by few other studies in the similar domain [4,39,40]. Data were collected at one point in time so time horizon was cross sectional.
The purpose of the present study was to identify the relationship between perceived risk and online impulse buying tendency. In order to investigate the relationship between proposed variables, different tests were executed and the results have been gathered and summarized in Tables 2-7. Frequency distribution with respect to sample profile and inferential statistics (Cronbach’s Alpha, Pearson Correlation and Regression) were used for data analysis through Statistical Package for Social Sciences software (SPSS).

### Reliability and demographic analysis

Items of the questionnaire for this research were adopted from established scales but these items were slightly modified to the context of present study. Therefore, reliability analysis was performed to analyze the fidelity of the instrument measures.

Cronbach’s Alpha values for all independent and depend variables have been shown in Table 2. When the value of Cronbach Alpha is greater than 0.7, this indicates higher internal consistency of the data [43]. Cronbach Alpha values for financial risk, product risk, convenience risk, overall perceived risk and online impulse buying tendency is greater than 0.7 however, for non-delivery risk, this value is slightly less than the suggested level.

The total number of observations (N) for the present study was 200. Frequency of gender, age and level of education of respondents has been summarized in Table 3. Considering gender, most of the respondents were females comprising of 60% of the sample. Analyzing age groups, maximum response came from participants belonging to age group of 21-25 years with 26% responses out of the total sample. When it comes to educational level, highest participation was from MS/M.Phil. degree holders constituting 38% of the total number of observations.

### Population and sample size

Target population for this study was online consumers from Pakistan. For research in business, sample size of 30 to 500 is considered enough [41]. Considering comprehensiveness of results as well as time and budget constraints, the sample size determined for this study was 200.

### Instrument and measurement

For the purpose of data collection, a 25 items online questionnaire was prepared using scales for measuring selected variables adapted from reliable and validated sources. 3 questions were related to demographic information like age, gender and qualification. 1 question was intentionally added to ensure that respondents had prior online shopping experience. 21 items were adapted from established scales to measure independent and dependent variables. Table 1 shows number of items for measuring each variable and sources of these items and which recent studies have validated these scales.

### Procedure and sampling technique

Data for the present study were collected using an online questionnaire distributed through stratified random sampling technique on Facebook and google groups. Groups representing educational institutions were considered for data collection. Web survey approach was selected for gathering responses since it is better than many conventional methods in terms of saving time and cost [42]. The nature of this study also made it feasible to opt for web survey. Online questionnaire was posted on Facebook and Google groups and members of these groups were invited to fill the questionnaire through private messages as well until the desired 200 useable responses were collected. Participation in the online survey was voluntary and no monetary or non-monetary benefits were offered. Participants were able to fill the questionnaire only once and no changes were allowed to be made in their response after submitting the form online. Data was then analyzed using SPSS (version 21) software.

### Results and Findings

The purpose of the present study was to identify the relationship between perceived risk and online impulse buying tendency. In order
due to perceived financial risk. Similarly R² value for product risk variation in online impulse buying tendency of online consumers is influenced by the selected independent variables, regression test was carried out. The Pearson correlation value is -0.348 with significant p value (0.000) again showing a moderate correlation between product risk and online impulse buying tendency having Pearson correlation value of -0.498 with significant p value (0.000).

The results of correlation analysis shown in Table 4 indicate that the strongest correlation of online impulse buying exists with financial risk (OPR)) and the dependent variable (online impulse buying tendency (OITB)) at 1% level of significance. Pearson correlation value between financial risk and online impulse buying tendency is -0.558 with significant p value (0.000). This indicates that there is a moderately negative correlation between financial risk and online impulse buying tendency. The value of Pearson correlation between product risk and online impulse buying tendency is -0.553 with significant p value (0.000) again showing a moderate negative correlation between the two variables. For convenience risk and non-delivery risk, the Pearson correlation value is -0.348 and -0.225 respectively with significant p value (.000) identifying a negative but weak correlation of these variables with online impulse buying tendency. Overall perceived risk is found to have a negative and moderate correlation with online impulse buying tendency having Pearson correlation value of -0.498 with significant p value (0.000).

The results of correlation analysis shown in Table 4 indicate that the strongest correlation of online impulse buying exists with financial risk and weakest correlation exists with non-delivery risk.

**Correlation analysis**

Table 4 highlights that there exists a negative correlation between all independent variables (financial risk (FR), product risk (PR), convenience risk (CR), non-delivery risk (NDR) and overall perceived risk (OPR)) and the dependent variable (online impulse buying tendency (OITB)) at 1% level of significance.

Pearson correlation value between financial risk and online impulse buying tendency is -0.558 with significant p value (0.000). This indicates that there is a moderately negative correlation between financial risk and online impulse buying tendency. The value of Pearson correlation between product risk and online impulse buying tendency is -0.553 with significant p value (0.000) again showing a moderate negative correlation between the two variables. For convenience risk and non-delivery risk, the Pearson correlation value is -0.348 and -0.225 respectively with significant p value (.000) identifying a negative but weak correlation of these variables with online impulse buying tendency. Overall perceived risk is found to have a negative and moderate correlation with online impulse buying tendency having Pearson correlation value of -0.498 with significant p value (0.000).

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**Regression analysis**

To determine the extent to which online impulse buying tendency is influenced by the selected independent variables, regression test was applied. In Table 5, the value of coefficient of determination "R²" shows the extent of variation caused by the independent variables.

R² value for financial risk is 0.558. This means that there is 55.8% variation in online impulse buying tendency of online consumers due to perceived financial risk. Similarly R² value for product risk is 0.553, for convenience risk is 0.348 and for non-delivery risk it is 0.225. The overall perceived risk has coefficient of determination value of 0.498 depicting that risk perception attributes for 49.8% change in online impulse buying tendency and 50.2% fluctuation is due to other mysterious factors. When consumers perceive risk in an online transaction, their tendency to buy impulsively decreases by almost 50%.

Table 6 illustrates that there is a negative relationship between independent variables and the dependent variable. The t value is greater than 2 for all variable indicating considerable influence of the variables. Overall regression model is statistically significant since F value is greater than 4 for all variables. Results summarized in Table 6 support all the proposed hypotheses that financial risk, product risk, convenience risk, non-delivery risk and overall perceived risk have a negation association with online impulse buying tendency.

The results of all proposed hypotheses for current study have been summarized in Table 7. The correlation and regression analysis of the collected data indicates that all hypotheses have been upheld. The proposed model has a negative relationship with online impulse buying tendency which signifies the importance of the present study. The selected variables can be considered as prominent factors to study consumer behavior in online context.

**Discussions**

The present study was one of the rare efforts to highlight an important attribute of consumer behavior that is online impulse buying tendency from the context of developing economies. Although lack of prior literature in the similar domain makes it difficult to compare results of this research with previous findings, it can be linked to some previous researches on online consumer behavior with respect to risk perception. Few researches on online consumer behavior have identified a negative and strong influence of risk perception on intention of online purchasing [35,44-48]. However, this study has identified a moderate negative association between risk perception and online impulse buying tendency. More research work needs to be carried out in developing and developed countries for a comprehensive understanding of how risk perception affects online consumer behavior and more specifically their tendency to buy impulsively.

**Conclusion**

The paper is among few attempts to study online impulse buying tendency from the perspective of a developing country. Prior literature lacks a comprehensive investigation of the relationship between perceived risk and online impulse buying tendency in Pakistani...
consumer market. The present study has contributed to existing body of knowledge by focusing on impulse buying tendency only in online context. The phenomenon of online shopping has gained popularity in Pakistan in recent times. Being a developing economy with low literacy rate, there are lots of reservations linked with online consumer behavior in Pakistan and one of them is risk perception. The present study has identified few important factors like financial risk and product risk that have a relatively stronger influence over online impulsive tendency of consumers in Pakistan. Marketers should try to convince and build trust among their consumers that they will be getting exactly the same product as displayed on their online stores and it will come up their expectations as well. This can be done by adding testimonials, reviews and comments from previous buyers related to online store and product quality. Also navigation on website and comparing prices for the products should be made feasible for consumers so that their risk perception can be minimized. Online consumers in Pakistan are generally reluctant to give out their credit card information to online merchants; therefore online vendors should offer different payment options such as cash on delivery so that their perception of online fraud due to credit card misuse can be minimized. Some online shopping websites in Pakistan are already offering multiple payment options to their clients. Although, non-delivery risk is found to have least influence over online impulse buying tendency, online vendors should focus timely delivery to ensure competitive advantage. Impulse buying tendency is more likely to turn into impulse buying behavior which is beneficial for merchants so efforts should be made to minimize the risks associated with online transactions.

**Limitations and Directions for Future Research**

The findings of the present study suggest that there is almost 50% reduction in online impulse buying tendency due to risk perception. Future studies should investigate those mysterious factors that cause the other 50% variation. The study is limited to Pakistan only with sample size of 200 respondents due to time and budget constraints, similar research can be repeated in other cultures with a greater sample size to get more generalized outcomes. The present study has considered limited dimensions for perceived risk, future studies might consider adding other dimensions of perceived risk along with existing ones for better and comprehensive analysis of influence of perceived risk on online impulse buying tendency. The study is not industry specific, further studies in a particular industry might produce more precise outcomes.

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