APPLICATION OF STIMULUS & RESPONSE MODEL TO IMPULSE BUYING BEHAVIOR OF ALGERIAN CONSUMERS

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Abstract

This paper investigates the influence of situational factors on the impulse buying behavior using a Mehrabian and Russell's (1974) framework (Stimulus & response model). The results suggest that a consumer's emotions can be a mediating factor in the impulse purchase process. In this study, we identify and explore how situational factors and emotional states may influence various dimensions of impulse purchase behavior of Algerian shoppers. By tapping the responses of 687 consumers in the area of Algeria' west, we obtain that there is a positive relationship between independent and dependent variables.

According to the results, pleasure was associated with design, whereas arousal was associated with perception of crowding, but dominance was linked to time spent in the store. Retailers can take these findings to maintain trained their employees and provide adequate signs and best environment whenever some relocation of products took place.

Keywords: Impulse purchasing, Situational factors, Mehrabian & Russell's model.

1. INTRODUCTION

Connected to social and economic changes in Algeria over the last decade, such as dramatic increases in disposable income, variety of products in local market and credit facilities, have produced a different climate in which individuals make consumer choices and as a result increase the behavior of impulse buying. It is important for the retail players to be able to understand the different factors affecting the extent in impulse buying

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behavior. So, there are many factors which affect Consumers Impulse Buying Behavior in Algerian market but we are only analyzing some situational factors which are: store environment (atmosphere, design and employee assistance), time pressure and perceived crowding.

The literature suggests that consumer emotions influence shopping behavior in a number of different ways, including impulse purchasing (Gardner & Rook, 1988; Rook, 1987). In this sense, the current study aims to examine the role of situational factors that are: store environment, perceived crowding and time pressure in influencing Algerian consumer to do an impulse buying. In addition, the authors seek to investigate the association of the mediating variables that are emotional states as proposed by Mehrabian and Russell with, on the one hand, the independent variables that are the situational predictors and, Secondly, the dependent variable that is; impulse buying behavior of consumers who shop in the area of Algeria’ west.

2. THE LITERATURE REVIEW

The importance of understanding impulse purchasing in retail stores was first identified in the marketing literature over sixty years ago (Clover, 1950). Impulse purchasing accounts for a substantial percentage of the products sold across a broad range of product categories (Colb & Hoyer, 1986; Hausman, 2000; Rook & Fischer, 1995). Research on impulse buying has been based on varying conceptual definitions of the construct and has focused primarily on in-store retailing.

A decade after Clover’s (1950) preliminary research on impulse purchases, Stern (1962) delineated four distinct types of impulse buying: pure, reminder, suggestion, and planned impulse buying: (i) Pure impulse buying: is a novelty or escape purchase which breaks a normal buying pattern, (ii) Reminder impulse buying: occurs when a shopper sees an item or recalls an advertisement or other information and remembers that the stock at home is low or exhausted, (iii) Suggestion impulse buying: occurs when a shopper sees a product for the first time and visualizes a need for it, and (iv) Planned impulse buying: takes place when the shopper makes specific purchase decisions on the basis of price specials, coupon offers and the like.

Stern’s (1962) contribution is quite significant, because even today most research studies use his concept of impulse purchases as a starting point (Beatty & Ferrell, 1998; Rook, 1987).

Applebaum (1951) introduced the notion of exposure to stimulus into the concept of impulse buying, and defined impulse buying as “buying that presumably was not planned by the customer before entering a store, but which resulted from a stimulus created by a sales promotional device in the store”. Although this was an improvement over the earlier definition, it was still a limited definition because the stimulus that Applebaum (1951) discussed is restricted to sales promotional devices in the store which the consumer could be using as an external memory aid. Over time, researchers began to look at consumer characteristics rather than product characteristics or stimuli as it was agreed that impulse purchasing is not confined to any particular product or product category (Rook, 1987). The hedonic or affective components of this type of purchasing became central in many studies (Cobb & Hoyer, 1986; Piron, 1991; Rook, 1987; Weinburg & Gottwald, 1982). Rook
(1987) reported that consumers often felt a calling to purchase the product. As researchers began to focus on the behavioral dimensions of impulse buying, they moved away from viewing impulse buying as an unplanned purchase. Rook and Hoch (1985) state the growing consensus among researchers when they suggest that defining impulse purchasing as unplanned is neither a sufficient condition nor a necessary condition for construal as an impulse purchase, since consumers clearly use store layout as external memory aid. In fact, consumers may plan impulse buying. Rook (1987) discusses situations wherein consumers have occasionally described how they plan to go on impulse buying excursions.

Rook (1987) suggests impulse buying occurs: when a consumer experiences a sudden, often persistent urge to buy something immediately. The impulse to buy is hedonically complex and may stimulate emotional conflict. Also, impulse buying is prone to occur with diminished regard for its consequences.

2.1. Situational factors influencing impulse buying behavior

2.1.1. Store environment

Applebaum (1951) was among the first to suggest that the impulsive purchase can be conducted by the consumer's exposition at the time of his experience of shopping to a stimulus of the environment. In the same way, Stern (1962) showed the existence of a meaningful relation between the impulsive purchase and marketing techniques. These techniques create one favorable environment for the impulsive purchase. Some more recent works showed that the variable of the sales atmosphere (sounds, views and odors) are important stimulants that can produce the desire to buy impulsively (Eroglu & Machleit, 1993; Mitchell, 1994; Donovan et al., 1994). Some elements as music, light and the display can affect the process of decision of the consumer (Underhill, 1999). Rook (1987) indicate that the sudden emergency to buy seems to be motivated by the visual confrontation with the product or by stimuli of the environment. Indeed, the interaction of the purchaser with the retail outlet is a main component of the impulsive purchase decisions (Phillips & Bradshaw, 1993). In the same way, the design of the retail outlet is able of to give the pleasure and to stimulate the visitor of the store. The different components of the environment act directly on buyer’s emotional states (Donovan & Rossiter, 1982; Dowson et al., 1990; Hui & Bateson, 1991). It be acceptable to indicate that Park and al., (2006) verified the negative impact of the interaction with employee assistance on the tendency to buy impulsively.

2.1.2. Time pressure

Stockdale (1978) suggested that people treat time as a scarce resource just as they do with space. Howard and Sheth (1969) define the pressure time that is the opposite of the available time for a shopper to do the act of purchase. Time pressure will limit the attention accorded to the elements of the environment. More the consumer spent time in the store, more he disposed to buy impulsively (Iyer, 1989); contrary to Au, et al. (1993), when they suggest that the impulsive purchase often achieves in the five first minutes of shopping and the probability of its realization decreases that the time passed.
2.1.3. Perceived crowding

According to Stokols (1972), crowding results from both the density stimuli and personal perception of the environment. Extending the concept, the empirical studies conducted by Harrell, et al. (1980) and Machleit et al. (2005) identified two dimensions of perceived crowding, human crowding and spatial crowding. Human crowding refers to a closed, confined feeling experienced from high human density while spatial crowding refers to feelings of restricted physical body movement due to high spatial density. Several studies (for example, Zluttonik & Altman, 1972; Stokols, 1976) demonstrated that when the environments restrict or interfere with an individual’s activity, the individual perceives crowding. This concept implies that density describes a state of “emotional neutral”, while crowding has to do with a state of strong emotional connection. Therefore, perceived crowding is supposed to act negatively as well on the realization of an impulsive purchase as well as on the emotional states of the shopper (Machleit et al., 2000). We note also, that research on perceived crowding postulates that spatial density is negatively correlated with satisfaction (e.g., Hui & Bateson, 1991; Machleit et al., 2005) and number of purchases (Grossbart et al., 1990) but human density is positively correlated with impulse purchasing (Jiunn-Ger, 2004).

2.1.4. The Mehrabian-Russell Theory

The fundamental proposition of Mehrabian and Russell’s (1974) theory is that the impact of the situation on behavior is mediated by emotional responses, so that any set of conditions initially generates an emotional (affective, connotative, feeling) reaction, which in turn leads to a behavioral response (Figure 1). Further, the universe of all possible emotional responses may be represented by one or a combination of three basic dimensions: pleasure, arousal and dominance. Pleasure as an emotional state is distinguished from "preference, liking, positive reinforcement or approach-avoidance...since the latter responses are also determined by the arousing quality of a stimulus" (Mehrabian & Russell, 1974). It is a composite of feelings such as happiness, contentment and satisfaction, etc. Arousal is an activity orientation and is "a measure of how wide awake the organism is, of how ready it is to act". Finally, dominance is a reflection of the extent to which the individual feels in control of or overpowered.

![Figure 1. The Mehrabian-Russell model](image-url)
by his environment. The higher the level of
dominance perceived in the situation, the
more submissive is the state of the
individual.

3. HYPOTHESIS

The following hypotheses were proposed
for the study:

**Relationship of situational factors and emotional sates**

**H1.** There is a positive relationship
between store environment and the emotions
of pleasure, arousal and dominance, that
shoppers experience during shopping.

**H2.** There is a positive relationship
between perceived crowding and the emotions
of pleasure, arousal and dominance, that shoppers experience during shopping.

**H3.** There is a positive relationship
between time pressure and the emotions of
pleasure, arousal and dominance, that shoppers experience during shopping.

**H4.** Shoppers’ feelings of pleasure,
arousal and dominance experienced during
shopping at a store are positively related to
impulse buying behavior.

**H5.** Store environment has a positive
correlation with the impulse buying
behavior.

**H6.** Perceived crowding has a positive
correlation with the impulse buying
behavior.

**H7.** Time pressure has a positive
correlation with the impulse buying
behavior.

4. DATA AND SAMPLE

4.1. Methodology

**Population and Sample:** The consumers,
who shop in general stores, departmental
stores, boutiques, shopping malls, small
retail outlets in the area of Algeria West were
taken as the population for this study. A
convenience sample (non-probability
sampling method) of 687 consumers was
pooled up for the current study.

4.2. Instrumentation

The instrument contained sub-parts. These sub-parts were retrieved from
different previous studies. The behavioral aspect of impulse buying in which items
were arranged to measure the impulse buying tendency was adopted from the paper
of Rook and Fisher (1995) and then further modified. Whereas, the attitudinal aspect of
impulse buying in which items were arranged to measure frequency was adopted
from the paper of Kacen and Lee (2002) and then further modified. The sub-part of the questionnaires regarding Store environment
was adopted from the paper of Greenland
and McGoldrick (1994), where items are
measured on three dimensions: design, employee assistance and atmosphere. The sub-part of the questionnaires regarding time
pressure was adopted from the paper of
Beatty and Ferrell (1998), where items are measured on three dimensions using a likert scale. The sub-part of the questionnaire regarding perceived crowding was adopted from the paper of Hui and Bateson (1991). It was captured via two dimensions human and spatial crowding where are measured in three-item scale (authors should please revise this part). The sub-part of the questionnaire regarding emotional states was measured through three dimensions: pleasure, arousal and dominance from Mehrabian and Russell’s model (1974). Indeed, several studies have tested the reliability and the validity of this scale (Graillot, 1998). After collecting 100 responses the reliability of the instrument was checked using Statistical Package for Social Sciences (SPSS). The value of Cronbach’s Alpha was 0.705, which confirmed the reliability of the instrument and then further responses up to 687 were collected (Stefanovic et al., 2011).

5. RESULTS AND DISCUSSION

The findings on the extent of impulsive purchases are inconsistent with previous researchers such as Hausman (2000) who obtained between 30 and 50 percent of impulse purchases among the total amount of purchases. In present study, researchers obtain between 23 and 27 percent of impulse purchases.

The respondents ranged from small shops to mega furniture outlets. There were 369 women and 318 men. Ages ranged from 18 to 73 years (Mean age=37.3 years, Standard Deviation=12.4 years). Sixty seven participants’ highest education was elementary school or high school, for 134 participants this was a vocational study, for 316 this was college or university, and 94 respondents were currently studying. Seventy six participants were illiterates.

To establish if emotional states were a mediating force between social factors and impulse purchase behavior, we ran a multiple regression analysis:

The data presented in Table 1, 2 and 3; show the results extracted on the basis of multiple regression to find the association level between the Independent, moderating and the dependent variables. The tests of hypotheses revealed the following results:

Coefficients of the impact of store environment on both emotional states (pleasure and arousal) on pleasure (beta=0.534, p<.001), and arousal (beta=0.333, p<.001) are significant, but is not significant for dominance (p>.001). These results provide support for H1a and H1b, but H1c is rejected. Nevertheless, the result supports H1.

The relationship between perceived crowding and emotional responses is not significant. Feelings of pleasure and arousal are negatively related to perceived crowding (beta=-0.511, beta=-0.344, p>.001, p>.001), this lending to reject H2a and H2b. Opposing to results of pleasure and arousal, feelings of dominance are positively related to perceived crowding (beta=0.267, p<.001). Thus, H2c is supported.

There is a relationship between time pressure and emotional responses. However, the results showed in Table 1 demonstrate that the feelings of time pressure at the store contribute a negative feelings of pleasure and dominance, this provide reject H3a and H3c. The coefficients for the impact of shoppers that have little of time for shopping on their feelings of arousal is positive and significant (p<.001). Thus, H3b is supported.

Hypothesis 4 stated that shoppers’
feelings of pleasure, arousal, and dominance experienced during shopping at a store are positively related to impulse buying behavior. The results of multiple regression analysis for relationships between emotional responses and impulse purchase behavior (Table 2) indicate that feelings of pleasure and arousal were positively related to impulse purchase behavior (β=0.175, β=0.336, p<.001). These positive impacts of the feelings of pleasure and arousal on the selected behavior mean that the feelings of pleasure and arousal are strong emotions that can make a pressure on purchase behavior (β=−0.355, p<.001). Thus, H4 was partially supported.

The effects of the store environment on the impulse purchase behavior were examined through the hypothesis 5. As shown in Table 3, the results support the hypothesis that store environment is positively related to impulse buying behavior, atmosphere (β=0.265, p<.001), design (β=0.200, p<.001), and personal assistance (β=0.289, p<.001). Thus, H5

Table 1. Statistical analysis for relationship of Social factors and emotional states

<table>
<thead>
<tr>
<th>Dependant variable</th>
<th>Independent variables</th>
<th>β</th>
<th>S.E</th>
<th>Wald</th>
<th>df</th>
<th>sig</th>
<th>Exp (β)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1a Emotional state Pleasure</td>
<td><strong>Store environment</strong></td>
<td>0.534</td>
<td>0.345</td>
<td>6.870</td>
<td>1</td>
<td>0.001</td>
<td>3.456</td>
</tr>
<tr>
<td></td>
<td>• <strong>Atmosphere</strong></td>
<td>0.547</td>
<td>0.345</td>
<td>10.14</td>
<td>1</td>
<td>0.001</td>
<td>4.540</td>
</tr>
<tr>
<td></td>
<td>• <strong>Design</strong></td>
<td>0.068</td>
<td>0.228</td>
<td>1</td>
<td>1</td>
<td>0.257</td>
<td>1.070</td>
</tr>
<tr>
<td></td>
<td>• <strong>Personal Assistance</strong></td>
<td>-0.258</td>
<td>0.228</td>
<td>0.089</td>
<td>1</td>
<td>0.004</td>
<td>0.772</td>
</tr>
<tr>
<td>H1b Emotional state Arousal</td>
<td><strong>Store environment</strong></td>
<td>0.338</td>
<td>0.388</td>
<td>3.479</td>
<td>1</td>
<td>0.002</td>
<td>3.126</td>
</tr>
<tr>
<td></td>
<td>• <strong>Atmosphere</strong></td>
<td>1.267</td>
<td>0.475</td>
<td>3.356</td>
<td>1</td>
<td>-0.067</td>
<td>4.540</td>
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<td>• <strong>Design</strong></td>
<td>0.068</td>
<td>0.228</td>
<td>3.460</td>
<td>1</td>
<td>-0.047</td>
<td>1.070</td>
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<td></td>
<td>• <strong>Personal Assistance</strong></td>
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<td>0.228</td>
<td>3.657</td>
<td>1</td>
<td>0.056</td>
<td>0.772</td>
</tr>
<tr>
<td>H1c Emotional state Dominance</td>
<td><strong>Store environment</strong></td>
<td>-0.111</td>
<td>0.596</td>
<td>0.652</td>
<td>1</td>
<td>0.461</td>
<td>0.844</td>
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<tr>
<td></td>
<td>• <strong>Atmosphere</strong></td>
<td>-0.131</td>
<td>0.585</td>
<td>0.050</td>
<td>1</td>
<td>0.823</td>
<td>1.139</td>
</tr>
<tr>
<td></td>
<td>• <strong>Design</strong></td>
<td>0.646</td>
<td>0.622</td>
<td>1.080</td>
<td>1</td>
<td>0.299</td>
<td>0.524</td>
</tr>
<tr>
<td></td>
<td>• <strong>Personal Assistance</strong></td>
<td>0.356</td>
<td>0.600</td>
<td>0.352</td>
<td>1</td>
<td>0.553</td>
<td>0.701</td>
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<tr>
<td>H2a Perceived crowding</td>
<td><strong>Human crowding</strong></td>
<td>-0.511</td>
<td>0.588</td>
<td>0.376</td>
<td>1</td>
<td>0.421</td>
<td>0.997</td>
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<td></td>
<td>• <strong>Spatial crowding</strong></td>
<td>-0.655</td>
<td>0.877</td>
<td>0.045</td>
<td>1</td>
<td>0.345</td>
<td>1.201</td>
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<td>H2b Perceived crowding</td>
<td><strong>Human crowding</strong></td>
<td>-0.344</td>
<td>0.577</td>
<td>0.784</td>
<td>1</td>
<td>0.466</td>
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<td>-0.646</td>
<td>0.622</td>
<td>1.080</td>
<td>1</td>
<td>0.345</td>
<td>1.201</td>
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<td>H2c Perceived crowding</td>
<td><strong>Human crowding</strong></td>
<td>0.267</td>
<td>0.120</td>
<td>3.386</td>
<td>1</td>
<td>-0.955</td>
<td>1.267</td>
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<td>• <strong>Spatial crowding</strong></td>
<td>0.265</td>
<td>0.145</td>
<td>3.356</td>
<td>1</td>
<td>0.067</td>
<td>1.303</td>
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<tr>
<td>H3a Time pressure</td>
<td><strong>Store environment</strong></td>
<td>-0.030</td>
<td>0.212</td>
<td>0.020</td>
<td>1</td>
<td>0.889</td>
<td>0.971</td>
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<tr>
<td>H3b Time pressure</td>
<td><strong>Store environment</strong></td>
<td>0.184</td>
<td>0.148</td>
<td>1.544</td>
<td>1</td>
<td>0.214</td>
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was supported. The results show that the design of the store most strongly affected impulse behavior, followed by atmosphere factor, while the personal support had the least effect of the three dimensions of store environment.

Hypothesis H6 predicted there is a positive relationship between overall perceived store crowding and the impulse buying behavior of the consumers. This hypothesis was tested using simple regression analysis. As shown in Table 3, significant positive relationships were found between overall perceived crowding and the behavior of impulse purchase, spatial crowding (beta=0.187, p<.001) and human crowding (beta=0.131, p<.001). Therefore, Hypothesis 6 was supported.

Hypothesis H7 proposed a positive relationship between time pressure and impulse buying behavior of the consumers. For simple regression analysis, time pressure was used as an independent variable and impulse buying behavior as a dependent variable. The results are shown in Table 3, time pressure had no significant effect on impulse purchase behavior of the consumers during their shopping experience at the store. Thus, Hypothesis 7 was rejected.

6. CONCLUSION

Our study findings indicate that social factors influence emotional states of Algerian shoppers. The presence of environmental simulation variables such as scent and sound or attractive store displays affect positively shoppers’ feelings of pleasure and arousal, but it has a negative impact on self control for purchase. The results show that perceived crowding tends

Table 2. Statistical analysis for relationship of emotional states and impulse buying behavior

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Independent variables</th>
<th>β</th>
<th>S.E</th>
<th>Wald</th>
<th>df</th>
<th>sig</th>
<th>Exp (β)</th>
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</thead>
<tbody>
<tr>
<td>Impulse purchasing</td>
<td>H4 Emotional states</td>
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<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>H4a Pleasure</td>
<td>0.175</td>
<td>0.056</td>
<td>0.635</td>
<td>1</td>
<td>-0.890</td>
<td>1.258</td>
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<td>H4b Arousal</td>
<td>0.336</td>
<td>0.168</td>
<td>1.986</td>
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<td>0.001</td>
<td>1.369</td>
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<td></td>
<td>H4c Dominance</td>
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<td>0.158</td>
<td>0.166</td>
<td>1</td>
<td>0.256</td>
<td>1.486</td>
</tr>
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</table>

Table 3. Statistical analysis for relationship of social factors and impulse buying behavior

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Independent variables</th>
<th>β</th>
<th>S.E</th>
<th>Wald</th>
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<td>Impulse purchasing</td>
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<td>1.335</td>
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<td>Impulse purchasing</td>
<td>H6 Perceived crowding</td>
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<td>0.524</td>
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<td>Spatial crowding</td>
<td>0.131</td>
<td>0.585</td>
<td>0.050</td>
<td>1</td>
<td>-0.823</td>
<td>1.139</td>
</tr>
<tr>
<td>Impulse purchasing</td>
<td>H7 Time pressure</td>
<td>-0.003</td>
<td>0.027</td>
<td>0.015</td>
<td>1</td>
<td>0.902</td>
<td>0.997</td>
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to have a negative impact on emotional states; these findings are consistent with previous studies (Bitner, 1990; Van Dolen et al., 2002; Hui & Bateson, 1991; Machleit et al., 2005). So, this study suggests that store managers might be able to reduce the negative effect of crowding by training their employees to be extra friendly at busy times. For the third factor “time pressure”, the impact on both emotional responses (pleasure and dominance) is negative, but it has a positive impact on emotional state of arousal. This means that when consumers have less time in purchasing, they feel more arousal and less pleasure and less self control.

The present study uses Stimulus and Response model (Mehrabian & Russell, 1974) to measure shoppers’ emotional reactions (pleasure, arousal, and dominance) since it has been frequently used for evaluation of emotions in the retail setting environment. However, we suggest that emotional states may moderate the situational factors and in making impulse purchases; in this sense, the study determines the emotional states affecting impulsive purchases. The results advise that pleasant store environments lead to enhanced impulse buying. The positive effect of a highly agreeable store environment on impulse purchase is reliable with Mattila and Wirtz (2008). High arousal also tends to reduce people’s ability to think through their actions (Leith & Baumeister, 1996). But dominance feelings or shoppers’ self control tends to reduce the behavior of impulse purchasing.

More importantly, this study highlights the situational factors influencing impulse purchase behavior in the store among shoppers. Store environment appears to be a significant factor, to promote impulse buying; retailers should create a store environment where the negative perceptions of impulse are reduced, stores should have highly legible environment and implement steps to promote shopping efficiency. This implies that marketers and retailers need to design shopping environment that reduce the expected shopping difficulties of their target consumers. It is important to understand that shoppers have varying types and amounts of product and store knowledge, which may affect their navigational search strategies. Time pressure affects the unplanned purchase in such way its realization increase that the time for shopping passed. These results are consistent with previous research such as Iyner (1989). The findings do not support the proposal of Grossbart et al. (1990) that shoppers do not an impulse buying behavior when they perceive the store crowding. The study of the impact of perceived crowding on the unplanned purchases showed that both the spatial crowding and human crowding had a positive influence on this behavior. These findings are consistent with Jiunn-Ger (2004) suggestion that human density is positively correlated with impulse purchasing.
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