THE EFFECT OF PRODUCT COUNTRY OF ORIGIN: A STUDY USING CONJOINT ANALYSIS

Ali Mohammad Kowsar¹

Abstract: This article extends cue utilization theory with the help of the idea of cue diagnosticity. The main objective of this study is to evaluate the strength of country of origin (COO) effect as a high scope cue during consumer choice decision for personal computers. Two conjoint analyses were done on the data collected by a questionnaire survey of 65 respondents. From the data we found that the influence of the cues, like-price, brand name, country of origin, product character and warranty, on the brand choice of the consumers is very important. The results showed highly significant interaction effects between country of origin and quality, as well as country of origin and warranty. That is an indication that country of origin effect is a low scope cue. Country of origin effect works better if it is combined with cues like quality, warranty etc. The conceptual framework of cue diagnosticity suggests that country of origin effect is a low scope cue, and it works depending on other cues. This is supported in our study.

Key words: Country of Origin Effect (COO), Conjoint Analysis, Cue Utilization Theory.

INTRODUCTION

Country of Origin (COO) effect is one of the most popular subjects in academic research of consumer behavior. Different researchers have studied this character of a product from different viewpoints. As a result of that, we know a lot about the different aspects of country of origin effect. But one shortcoming exists, up to now there are very few researchers concentrating on the significance of COO in connection to other attributes that influence consumer decision making.

In the country of origin literature out of the several perspectives on consumer decision making we emphasized “cue utilization theory,” because of the big research gap about the question of whether country of origin effect is a standalone product attribute.

LITERATURE REVIEW

In most of the situations, consumers are unaware of the true quality of competing products before making the purchase. In those situations empirical research suggests that consumers are likely to depend on simple heuristics, or cues to assess product quality (Rao and Monroe, 1989). Commonly studied marketing

¹ Assistant Professor, Department of Marketing, University of Dhaka, Bangladesh.
signals or cues in the literature include brand name (e.g., Aaker, 1996; Dodds, Monroe, Grewal, 1991; Maheswaran, Mackie et al., 1992; Rao and Monroe 1989), price (e.g., Olson, 1977; Rao and Monroe, 1989; Wolinsky, 1983), advertising (e.g., Kihlstrom and Riordan, 1984; Kirmani, 1990; Milgrom and Roberts, 1986), store name or retailer reputation (e.g., Chu and Chu, 1994; Grewal, Krishnan, Baker and Borin, 1998), and warranties and guarantees (e.g., Boulding and Kirmani, 1993; Grossman, 1981; Shimp and Bearden, 1982).

Extending these ideas to marketing, we can conceptualize a product as an array of cues that may serve as signals of product quality. But there is a gap in the cue theory, which is, whether country of origin effect can work as a standalone variable or does it depends on the existence of other cues to become effective.

**Conceptual Background**

In this article we will try to expand the cue diagnosticity framework, by including country of origin effect as an extrinsic cue. We will also try to categorize COO effects on the basis of the main effect and interaction effect. The cue diagnosticity framework builds on cue utilization theory that suggests that most of the important judgments are based on multiple attributes (Slovic and Lishctenstein, 1971). Cue utilization theory also suggests that the extent to which a specific cue is utilized in assessing quality varies with its predictive value or its diagnosticity. We extend this idea by pointing out that because different types of cues are available in the marketplace, the diagnosticity and thus the use, of cues of a particular type may depend on the existence of other cue types. In other words, we will try to evaluate country of origin as an extrinsic cue and evaluate its interaction with other cues.

High scope cues can be characterized as cues that evolve over time such that their valence cannot be changed instantaneously (Purohit and Srivastava, 2001). High scope cues can also be regarded as standalone cues in the sense that the diagnosticity of such cues is relatively less dependent on the presence of other cues. Examples of high scope cues include brand name and firm reputation. In contrast, low scope cues are transient in nature such that their valence can be changed relatively quickly and inexpensively; thus, such cues can be potentially used to send false signals.

The existence of the country of origin cue, to which the buyer can attach meaning, has spawned a stream of consumer and industrial buying research on country effect. Country of origin is an extrinsic product cue, a class of intangible product traits which include a product’s brand, price and warranty. Unlike physical characteristics, a change in these cues has no direct bearing on the product’s performance. Nonetheless, they can still act as risk mitigants or quality cues for consumers who may be either unable to evaluate tangible traits of competitive offerings or unwilling to expend search efforts.

There is a very good prospect that cue utilization theory will contribute to the understanding of country of origin effect. At the moment the country of origin
effect literature does not clearly answer, if it is a standalone attribute or not. Sometimes it gives the feeling of glorifying country of origin effect, as a too much individually strong variable without enough empirical evidence. So, with the combination of cue diagnosticity theory and country of origin theory we will try to overcome this theoretical weakness.

The publication of Schooler’s (1965) seminal article in the Journal of Marketing Research began the systematic research on country of origin effect. Early research on COO can be described as demonstrational in nature; most research was only concerned with documenting the existence of the COO effect under a variety of circumstances. Statistically significant COO effects have been documented across countries, for a variety of product categories, and for both industrial buyers and consumers.

In 1982 Bilkey and Nes published a review article that effectively summarized the COO research to that point in time. That article quantitatively evaluated the results of twenty five COO studies, subsequently achieved the status of a classic and has been cited in nearly nine out of ten COO research efforts since its publication.

After concluding that “all of the studies reviewed indicated that country of origin does influence buyers’ perception”, Bilkey and Nes set forth several issues that they believed needed to be addressed to advance the state of COO knowledge. These issues stimulated a plethora of wide ranging research that set to establish theoretical explanations for the COO effects as well as determine its antecedents and relative influence in the presence of other cues. Several studies attempted to clarify and understand how individuals use country of origin in the context of information processing and knowledge activation [e.g., Hong and Wyre (1989); Johansson (1989); Obermiller and Spangenberg (1989)].

Most COO studies have involved the manipulation of a single cue ‘made in....’. In such studies, consumers were asked to base their evaluation on COO alone, in isolation from the rest of the attributes that typically define a product (Peterson and Jolibert, 1995). Pecotich and Rosenthal (2001) point out that more inconsistencies in COO research stem from the use of single cue models versus multi-cue models, and there is an ongoing debate concerning the magnitude of the effect, particularly in the presence of other product information cues (Ettenson, 1993). Although earlier studies (Prior to Bilkey and Nes) found a direct link between the use of COO and the absence of other product attribute information, more recent studies suggest an indirect effect of COO on product evaluation (Ozsomer and Cavusgil, 1991). Unfortunately, until recently the research has failed to clearly distinguish between the various conceptualizations and the interactions with other cues such as price and packaging (Pecotich and Rosenthal, 2001). To better understand country of origin effect and its antecedents, it is necessary to examine it more closely in a multi-cue consumer behavior context.
OBJECTIVES

In most of the situations, consumers are unaware of the true quality of competing products before making the purchase. We will try to evaluate country of origin as an extrinsic cue and evaluate its interaction with other cues. Up to now there are very few researchers concentrating on the significance of COO in connection to other attributes that influence consumer decision making.

As a result, there is a gap in the cue theory, which is, whether country of origin effect can work as a standalone variable or does it depends on the existence of other cues to become effective.

At the moment the country of origin effect literature does not clearly answer, if it is a standalone attribute or not. Sometimes it gives the feeling of glorifying country of origin effect, as a too much individually strong variable without enough empirical evidence. So, with the combination of cue diagnosticity theory and country of origin theory we will try to overcome this theoretical weakness.

HYPOTHESES

Some of the previous studies predicted that there may be an existence of the interaction between the multiple attributes of the product. Hence, to find the statistical significance of the interaction affect between country of origin effect and other attributes we develop the following hypotheses:

Generally, products produced by trusted companies are more accepted by consumers. As compared to less trusted companies, consumers are less attentive to the country of origin of products made by trusted companies, because they have an existing perception in their mind about where that product is most likely to be produced. So we propose:

H1: Country of origin effect will be stronger for less trusted products.

When a consumer is more involved in a particular product, he or she will be aware of more attributes (e.g. quality). As a result, they will judge a product based on the total utility that may come from the synergistic effect of all the attributes. This will make the country of origin effect weaker. So we propose:

H2: If the respondent is highly involved with the product, the country of origin effect will be weaker.

Warranty reduces the risk of the purchase decision. When the consumer is confident about the security coverage, which is attained with the warranty, they will be less careful about the country of origin. Thus we propose:

H3: If the warranty is given, the country of origin effect will be weaker.

METHODOLOGY

The study uses conjoint analysis to investigate the relative importance of the country of origin of a product to respondents in Japan based on a sample of
students. The conjoint analysis overcomes the problems associated with single cue studies by representing consumer choice as a multi-attribute judgment situation. In this conjoint analysis, we use price, brand, country of origin, physical characteristics and warranty as our conjoint attribute. The main advantage of using conjoint analysis is that, we can find the statistical significance of the individual attributes as well as the interaction effect between the attributes to determine the choice of products by consumers.

Table 1: Design of Stimulus for the Conjoint Analysis Model

<table>
<thead>
<tr>
<th>Attribute levels</th>
<th>First Analysis (Q2)</th>
<th>Second Analysis(Q3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dummy variable values</td>
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<tr>
<td>Attributes</td>
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<td></td>
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<tr>
<td>Brand name</td>
<td>a</td>
<td>b</td>
</tr>
<tr>
<td>Price</td>
<td>a</td>
<td>b</td>
</tr>
<tr>
<td>Warranty</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Physical characteristics</td>
<td>a</td>
<td>b</td>
</tr>
<tr>
<td>Country of origin</td>
<td>a</td>
<td>b</td>
</tr>
</tbody>
</table>

Product Category

We selected personal computers as our chosen category of product for this survey. Within this category we chose 2 brand names—less trusted brand (SOTEC) and more trusted brand (Toshiba). This category of product was chosen because, Personal computer is a widely diffused product in Japan and the respondents are familiar with them. PCs are a very good category to be considered as a utilitarian product and it is easier to manipulate the attributes for the purpose of conjoint analysis.

Design of Stimulus

The conjoint profiles of personal computers were based on attributes thought to influence the personal computer purchase decision. The coding system includes two brands- SOTEC (a), and Toshiba (b). Four price levels were used-150,000 (a), 200,000 (b), 175,000 (c), and 180,000 (d). Question 2 did not have warranty while Question 3 had 2 levels of warranty- no warranty (a), full three year warranty (b). Physical characteristics was based on HDD and RAM with 3 levels- HDD 60GB, RAM 1GB (a), HDD 100GB, RAM 2GB (b), HDD 40GB, RAM 512MB (c). Lastly, we had two countries to consider- Japan (a), and Indonesia (b). The attributes and levels are shown in Table 1.

The choice set design was created employing the fractional factorial design generation. The study used an orthogonal main effect plan for 7 factors with 8 treatment combinations. Since only four or five main effects were included in the
study, two (Q3) or three (Q2) factors were omitted from the array. In order to ensure that the order of the items did not bias consumer's responses, the order of the choice sets was randomized.

**Subjects**

Convenience sample of 65 students were used as the respondents. The questionnaire survey was conducted at the date of 1st May 2013. The students were informed that this will be considered as a part of the coursework. They are all included in the graduate course of Business studies in the University of Tsukuba. However, the sample included mainly Japanese student, we also had a mix of Chinese, Korean and students from other countries. Among the total number of respondents 43 were male and 22 were female. Concerning nationality 40 were Japanese students the rest of the 25 respondents came from different countries.

**Procedure**

One questionnaire was designed and this was used to collect the data from the respondents within a specified period of time. Respondents were asked to provide answers to closed ended questions and also to indicate their preferences toward a printed list of product attributes. Actually, we conducted two conjoint studies. The first study included 4 attributes and the second study included 5 attributes. For first analysis (Q2) and second analysis (Q3) of the questionnaire respondents provided a rank order of 1-8 on the basis of their preferences.

The study was conducted in only one country, with a small number (N=65) of homogeneous consumer group (student subject). The generalization of the study should be tested for other consumer groups, including consumers in other countries. Since conjoint analysis is normally only applicable to utilitarian products such as personal computers, non-utilitarian (luxury) products should be tested with a different method.

**RESULTS**

**Descriptive Results**

When asked how many computers they owned up to now—38.5% said they owned one computer, 35.4% said they owned two, 13.8% said they owned three and 4.6% said they owned four and six or more computers. There was no one who owned five computers.

In response to the question, of they have their own computers-16.9% said they had desktop computers, 60% said they had notebook computers and 21.5% said they had both desktop and notebook computers. 1.6% of the respondents had neither of them.

In order to measure their involvement level and knowledge about personal computers, we asked the respondents about their perception regarding, their skills about PCs as compared with their friends. In response, 29.2% said they knew a
lot about personal computers, 47.7% said they knew as much as their friends and 23.1% said they did not know that much well about PCs. This variable will be used as a level of involvement in PCs in the following analysis.

For the purpose of getting a subjective evaluation from the respondents, we asked 11 questions using 4 point Likert scale (1= not important at all, 2= somewhat Important, 3= moderately important and 4= very important.) With regard to subjective purchase decision factors about PCs (Q4), the average scores of the questions show that, RAM volume gets the highest score (3.594), followed by price (3.462), and hard disk capacity (3.391). The lowest score is compatibility with previous hardware and software (1.594). The country of origin effect gets 10th position with the score of (2.422). Even if this is based a subjective evaluation, it showed that, country of origin effect is not considered highly important in the mind of consumers.

In response to a question concerning quality perception they ranked Sony as the highest quality with the average score of 2.077, followed by Toshiba (2.154) and Dell (3.246.) SOTEC got the lowest ranking, with an average score of 4.046. So we can say that, as supposed in the following conjoint analysis, Toshiba is a more preferred brand than SOTEC.

**Study 1**

In the first study, we included 4 variables. Regression parameters were estimated based on pooled data from eight items of Question 2. Each variable was defined as a dummy variable (0 or 1) as shown in Table 1. After testing several different models with the stepwise regression model, Model 5 (Table 2) was chosen as the best fit model based on Akaike’s information criteria. The results show that, price, brand, country of origin, quality, and interaction effect between brand and country-of-origin are statistically significant.

To calculate the mean willingness-to-pay for each attribute, we estimated the corresponding values: \( (\text{range of prices}) \times b \) (attribute)/b (price). Each of these values is understood to be a price change associated with a unit increase of a given attribute. Model 5 in Table 2 indicates that the differences in quality, brand, and country-of-origin are perceived to be equivalent to JPY 73,700 (US$ 589), JPY 39,900 (US$ 319), JPY 27,500 (US$ 220), respectively. These values are reasonable considering market prices of PCs in Japan. Estimated parameters of Model 5 demonstrate that the interaction between country of origin and brand is statistically significant. The negative parameter (−.107) means that the country of origin effect is stronger for SOTEC than Toshiba. Thus H1 is supported.

In order to test H2, the interaction term between involvement and country of origin was added to the independent variables (Model 6). The results indicate that the interaction between involvement and country of origin is negative and statistically significant, which shows that the country of origin effect is stronger for less involved respondents. Thus H2 is also supported.
Table 2: Conjoint Analysis of Personal Computer Attributes (4 Attributes)

<table>
<thead>
<tr>
<th></th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
<th>Model 4</th>
<th>Model 5</th>
<th>Model 6</th>
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<tbody>
<tr>
<td>Constant</td>
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<td>0.304***</td>
<td>0.241**</td>
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<td>0.178***</td>
<td>0.178***</td>
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<td>-0.154***</td>
<td>-0.154***</td>
<td>-0.154***</td>
<td>-0.154***</td>
<td>-0.154***</td>
</tr>
<tr>
<td>Brand</td>
<td>0.127***</td>
<td>0.127***</td>
<td>0.181***</td>
<td>0.181***</td>
<td>0.152**</td>
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<tr>
<td>COO</td>
<td>0.072***</td>
<td>0.125***</td>
<td>0.152**</td>
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<tr>
<td>Quality</td>
<td>0.227***</td>
<td>0.227***</td>
<td>0.227***</td>
<td>0.227***</td>
<td>0.227***</td>
<td>0.227***</td>
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<tr>
<td>C*B</td>
<td>-0.107**</td>
<td>-0.107**</td>
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</tr>
<tr>
<td>I*C</td>
<td>-0.013*</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>R square</td>
<td>0.170</td>
<td>0.248</td>
<td>0.302</td>
<td>0.319</td>
<td>0.328</td>
<td>0.329</td>
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<tr>
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<td>-1485.753</td>
<td>-1522.000</td>
<td>-1532.768</td>
<td>-1538.087</td>
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</table>

Note: C*B: interaction effect between country of origin and brand name
I*C: interaction effect between involvement and country of origin
Significance level (*** p<0.001, ** p< 0.01, and * p<0.05)

Table 3: Conjoint Analysis of Personal Computer Attributes (5 Attributes)

<table>
<thead>
<tr>
<th></th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
<th>Model 4</th>
<th>Model 5</th>
<th>Model 6</th>
<th>Model 7</th>
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<tr>
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<td>-0.013</td>
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<tr>
<td>Country</td>
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<tr>
<td>Quality</td>
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<td>0.140***</td>
<td>0.231***</td>
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<tr>
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<td>0.221***</td>
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<tr>
<td>C*Q</td>
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<td>0.182***</td>
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<tr>
<td>C*W</td>
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<td></td>
<td></td>
<td></td>
<td>0.107**</td>
<td>0.107**</td>
</tr>
<tr>
<td>Involvement</td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>0.046*</td>
</tr>
<tr>
<td>R square</td>
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<td>0.309</td>
<td>0.316</td>
<td>0.316</td>
<td>0.316</td>
<td>0.316</td>
<td>0.316</td>
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<table>
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<tr>
<th>Involvement</th>
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<th>Model 8</th>
<th>Model 9</th>
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<tr>
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<td>0.000</td>
<td>-0.046*</td>
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</tr>
<tr>
<td>R square</td>
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<td>0.291</td>
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<td>-1526.452</td>
<td>-1510.03</td>
<td>-1532.095</td>
<td>-1533.673</td>
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</table>

Note: C*Q: interaction effect between country of origin and quality.
C*W: interaction effect between country of origin and warranty.
Significance level (***) p<0.001, ** p< 0.01, and * p<0.05)

Study 2

In the second study, we introduced warranty as an independent variable into the conjoint analysis. To highlight this variable, the price gap was given a negligible value (5,000 yen), as compared to study 1 where the price gap was 50,000 yen. Also, relatively small quality gap was given in Study 2 (See Design of stimulus.) As for other attributes, the same stimulus sets (including brands and country of origin) were used. Possibly due to the smaller difference in these attributes such as price and quality as compared to Study 1, respondents seemed to give more attention to the newly introduced attribute (warranty) and targeted their response around it.

As in Study 1, the mean willingness-to-pay values for each attribute were computed. For example, Model 1 in Table 3 indicates that the differences in brand, country-of-origin, quality, and warranty are perceived to be equivalent to JPY -708, JPY 6900, JPY12700, JPY6900, respectively. A negative value (-708 yen) is somewhat contradictory because this result indicates that SOTEC is more preferred than Toshiba although this value is not statistically significant. These unexpected parameters may be due to the repetition of the similar sets of attributes, as discussed above.

Model 9 was chosen as the best model among the models for four independent variables (brand, country, quality, warranty) according to Akaike’s information criteria. This model shows two interaction terms are statistically significant; namely interaction between COO and quality, COO and warranty. Positive parameters of these interaction effects show that COO effects are stronger for products of higher quality and products with full warranty. This is completely opposite to H3, thus H3 was not supported.

CONCLUSION

In this research we conducted two conjoint studies. In the first study we used 4 attributes of personal computers namely – price, brand name, country of origin and product quality (RAM & HDD). This study showed us statistically significant results concerning all the attributes. It also indicated that country of origin effect is stronger for SOTEC than Toshiba. H1 and H2 were supported. In the second study, we introduced the fifth attribute (warranty) along with the existing four attributes. However, the results
were contradictory. H3 was not supported. We think the repetition of a similar attributes might have affect respondents in the Study 2. Results of the conjoint analysis suggest that the respondents may have been focusing their attention to the newly introduced attribute. For example, in Study 2, the effect of brands is not statistically significant despite using the same set of attributes as in Study 1. In contrast, the quality and warranty were highly and statistically significant in the Study 2. These unexpected results can be attributed to the repetition of similar attributes both in Study 1 and Study 2. Despite such methodological shortcomings of the Study 2, we believe that based on the theoretically rigorous and practically tractable procedure, this study offers new perspectives.

From the findings of the conjoint analysis including other product cues, we may propose that country of origin effect should be considered as a low scope cue. The effect of country of origin is contingent on other variables. As we can see from both of the study results, the interaction effects of country of origin are strong. This is an indication that as an individual attribute, without the existence of other cues COO has not a very strong influence on consumer decision making. It should be used in combination with other high scope variables for the purpose of getting appropriate outcomes. The designing process of the conjoint analysis is relatively complex. If too many options are included respondents may resort to simplification strategies, we got a hint of that in the data collected from the second study.

The area of research in cue diagnosticity theory has a number of empirical studies done with experimental methodology (For example, see Purohit and Srivastava, 2001). This research was motivated by their interest in how consumers deal with pre-purchase product uncertainty by assessing product quality based on multiple cues. The cue diagnosticity framework suggests that the extent to which a cue is used in product quality judgment varies with the other cues that are available. They proved warranty as a low scope cue. Another study worth mentioning is Shimp and Bearden (1982). In this research warranty was emphasized as a product attribute. Warranty quality, warrantor reputation, and price were manipulated in five separate experiments that were designed to examine the effect of these cues on consumer perceptions. In this sense, our conjoint analysis is an important theoretical contribution because it shows that country of origin effect is a low scope cue.

With the continuation of further research, there will be very good opportunity to contribute to theoretical and practical implications in this area of study.

Additionally, this study offers an important managerial implication. As we all know, country of origin effect exists as a negative attribute for most of the countries of the world. Only a few developed countries enjoy the perception of country of origin as an advantageous attribute in a limited number of product categories. However, most countries in the world try to participate in international marketing. So anyhow they must overcome the unlucky position.
they are holding. This study seems to indicate that country of origin works as a low scope cue. This means, it will become influential only at the existence of other high scope cues. Hence, the managers should start to look for combinations of high scope cues and low scope cues such as the COO effect. Hopefully that will overcome the disadvantages faced by developing countries in the arena of international marketing.

REFERENCES


