The Effects of Environment-conscious Consumer Attitudes towards Eco-friendly Product and Artificial Leather Fashion Product Purchase Intentions

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Abstract: This research examines the environmental consciousness of fashion consumer attitudes towards eco-friendly products and artificial leather purchase intentions. The survey was conducted from March 11 to March 15 2012 and all respondents had at least once experience of purchasing fashion items made of artificial leather. A total of 426 subjects were used in the dataset; the statistical analysis methods were frequency analysis, factor analysis, reliability analysis and multiple analysis. The results are as follows. The study finds that environmental consciousness has three dimensions of public participation, resource conservation, and recycling. Public participation, recycling, and resource conservation influenced eco-friendly product attitudes. Eco-friendly product attitudes influenced artificial leather purchase intentions. The research results show that appropriate plans in fashion business such as usefulness of design and business value will need to be provided to fashion consumers. Detailed information on materials related to fashion products as the content of environment-friendly techniques and recycling methods will help consumers to evaluate environment-friendly attitude products.

Key words: environmental consciousness, eco-friendly product attitudes, consumer environmental concern, artificial leather fashion purchase intentions

I. Introduction

Pollution, climate changes, and natural disasters have changed 21\textsuperscript{st} century consumption tendencies towards eco-friendly attitudes; subsequently, many companies have made significant efforts towards the development of eco-friendly products and marketing strategies in order to find new opportunities. Increased consumer interest in environmental problems has changed consumer consciousness, lifestyles and behavioral patterns(Park & Oh, 2005). Government and corporations seek to offer environmental solutions to the enforcement of environmental regulations. There are now stricter regulations and heightened consumer consciousness over the environment; subsequently, the importance of eco-friendly management of global corporations has increased.

Many countries have established eco-friendly development, manufacturing, and supply policies to meet the demands of global markets. For example, the OECD chose environmentally friendly government procurement policies through direct recommendation, and the US and Japan made it mandatory to purchase eco-friendly products and services through the Green Consumption Act(Korea Fashion Association, 2012).

Corporations wish to harness new economic growth trends based on the development of environmentally friendly fashion products and marketing methods for those products. Public awareness research on eco-friendly products by the Ministry of Environment and the Government Information Agency showed that 59.7% of Koreans are interested in such products and 73% of them wish to purchase them even if the price of these items is higher than regular prices. The results indicate that consumer eco-consciousness is increasing(Korea Development Institute, 2009).

The product preference which reflects consumer needs has grown with high-level sensibility as well as value consumption through product information. There is increased public interest in artificial leather fashion products as environmentally friendly and sustainable goods due to the desire to protect nature and animals. There are various kinds of fashion items included these market-tendencies as shown through constant product development and new merchandising strategies. Corporations and consumers are especially interested in artificial leather fashion products as shown through ongoing eco-consciousness studies.

This study examined how eco-friendly consciousness and fashion consumer attitudes influence purchase intentions as well as investigated moderating effects between consciousness and purchase intentions. We examine consumer purchasing patterns and provide information on the establishment of new marketing strategies and the development of artificial leather fashion items.
2. Theoretical Background

2.1. Environment Conscious Attitude of Consumers

It is important for consumers to evolve lifestyle and behavioral patterns in order to resolve environmental problems; subsequently, an increased consumer eco-consciousness results in a more positive towards eco-conscious activities(Lee, 2003). Eco-consciousness means that a consumer is more cognizant about environmental problems and follows a more environmentally friendly lifestyle that results in mitigated environmental problems in the purchase, use, or disposal of goods(Ahn & Park, 1998). This reduction in waste also entails reduced energy consumption to help preserve the natural environment. These behavioral patterns produce positive results in the preservation of nature through a lifestyle that is harmonized with nature and are considered behavior that improves the quality of life in consumers(Min & Rhee, 1999; Cha, 2000).

Eco-conscious behavior is an environmentally friendly consumption philosophy that recognizes the importance of the relationship between society and the environment as well as considers individual desires and the well-being of society as a whole. These behavioral patterns arise throughout the purchase of, use and disposal of goods(Park & Rhee, 1995). Recycling is found to be closely related to pro-social behavior such as altruism and social contribution(Hopper & Nielsen, 1991). A study by Park and Oh(2005) suggests eco-conscious behavior is categorized as resource conservation, public awareness, environmental preservation and recycling consciousness with significant effects on apparel recycling attitude and behavior. Park and Rhee(1995) argued that eco-conscious behavior was positively affected by the influence of reference groups, environmental interest, consumer efficiency, public awareness, income level, consumer awareness, and exposure to environmental education.

Kim(1995) studies on eco-conscious consumer behavior and clothing purchasing type showed that there were purchase behavior differences between high eco-consciousness and low eco-consciousness groups and that the high eco-consciousness group was more active in recycling clothes. A study by Shim(1995) on recycling tendencies in the case of clothes disposal found that females recycled more clothing than males. Continuous research and study on eco-conscious behavior helps to understand consumer behavior and emphasizes it as the most important artificial leather fashion item purchasing behavior variable; therefore, previous studies searched for eco-conscious behavior, resource conservation, and recycling consciousness.

2.2. Attitude on Environmentally Friendly Products

An environmentally friendly product attitude occurs when consumers assume an environmentally friendly position in their individual and social lives. The ultimate purpose of purchasing is for consumers to satisfy their wants and needs. In this context, an environmentally friendly product attitude results in the purchase of environmentally friendly goods(Sung, 2005). It is also a belief that people maintain constructive thoughts towards environmental problems and preservation(Lee, 1999). The environmental attitude of consumers is a collective concept that embraces all consumer awareness towards environmental problems as expressed in terms such as environmental consciousness, environmental interest and environment preservation attitude(Won, 2003; Park, 2012).

Studies on attitudes towards environmentally friendly products have mainly focused on the characteristics of eco-friendly consumers(Lee et al., 2002; Park & Lee, 1995) and eco-friendly consumers are defined as those who conduct purchasing activities based on a consideration of the benefits provided to society and the environment. Consumers have significant interest in environmental problems and eco-friendly consumers have begun to emerge as a new consumer group in the market. Environmentally friendly consumers are sensitive towards and consider environmental effects when they purchase products; in addition, they alter purchasing and using patterns based upon environmental preservation(Hong et al., 2010). Advanced research on eco-friendly customer attitudes compares the differences of environmentally friendly consumers and non-environmentally friendly consumers based on population statistical variables and eco-friendly variables(Yun & Yang, 2009).

Individual personality shows more environmental interest than the socioeconomic factors found in the research by Park and Suh(1998).

Individual personality emphasizes segmented customer character variables as well as demographic characteristics to show that they would positively and consciously participate in environment-oriented behavior, education, and practices towards the environment.

Research by Balderjahn(1988) shows that customers who have an increased interest and positive attitude towards the environment become personally active in their involvement energy conservation and eco-friendly purchasing. Jung(2009) also analyzed the purchasing activity of environmentally-friendly fashion that followed environmentally-friendly attitudes and segmented attitudes into an interest in environmental friendly attitudes, environmental activity participation level and the level of environmental friendly product consumption. Min and Rhee(1999) examined environmentally friendly consumption attitudes at the social-oriented level and individual-oriented level; they claimed that direct individual benefits are more influential than social concerns to promote the activity. He showed that there were more cases of consumer expression in their...
initial behavior when they respond sensitively to direct environmental damages or benefits. Huh(2004) categorized the purchasing activities of consumers to examine if there were any differences between the environment and environmentally friendly behavior; however, Park(2000) stated that environmental interest and attitude contained the influential variables of eco-friendly consumer behavior. Salient research on environmentally friendly product shows the importance of environmental awareness behavior.

2.3. Consumer Interest in the Environment

Consumer interest in the environment is determined through the consumer attitude towards environmental issues such as pollution, population growth, sustainable growth and natural resource development(Liere & Dunlap, 1981). Research to develop environmental interest criterion for environmental problems has progressed; however, Stern et al.(1993) states the need for a varied analysis to understand the main causes and solutions to environmental destruction. He argues for a research method to evaluate individual feelings and convictions towards the environment needs; in addition, he clarified the factors needed to protect the environment and developed criterion for environmental preservation.

Schwepker and Cornwell(1991) conducted research on changes of attitude by environmental-friendly consumers to clarify the importance of environmental issues through a practical research on the environment. They also inquired on the practical factors that influence environmental issues with further research on the seriousness and degree of concern towards the changes of attitude by consumer groups.

We have to consider attitude and behavior in the evaluation of the degree of environmental concern. Social psychology emphasizes the relation of environmental attitudes and environmental behavior where behavior becomes a more important issue than the attitude(Liere & Dunlap, 1981). New research on consumers with substantial environmental interest involves conscious environmental-friendly activities as well as shifts in perceptions towards an evaluation of environmental policy and the will to resolve environmental issues. Environmental seriousness and interest are emotional and rational preferences of individuals when individual preference becomes the basis for eco-awareness. Consumers interested in the environment have a detailed and professional knowledge towards the environment and are classified as highly responsible consumers based on environmental-friendly consumption(Park, 2000).

There is a significant correlation between consumer interest in the environment and super behavior related to the environment due to the close correlation of environmental-friendly attitudes and purchasing behavior in the criterion related to the environmental interest of the consumer(Stern et al., 1993). The research of Rice et al. (1997) recognized the relevance of environmental interest and consumption behavior in an environmental conscious manner. Previous studies show and eco-friendly attitude and environmentally conscious purchasing behavior correlation; in addition, an eco-friendly attitude significantly influenced artificial leather fashion-product purchase intentions.

2.4. Artificial leather fashion product purchasing intentions

Purchasing behavior is related to product and brand evaluation as well as behavior related to selection and intention(Noh, 1996). The data processing theory shows that consumers form attitudes by conviction based on the attributes of a product as proven by a continued purchasing behavior. Consumers can go through three steps such as perception, attitude and behavior intention when they obtain and ultimate purchase behavior level. Lee(2008) defined purchasing intention as expected or planned future behavior or the possibility of changing behavior attitudes.


Research by Schwepker and Cornwell(1991) clarified that environmental-friendly attitudes are an important purchasing intention variable through the perception on attitudes towards waste materials and environmental pollution.

Koh and Noh(2009) claimed that ethical consumption statistically influence attitudes towards ethical fashion product purchases and purchase intentions. Kim(2004) show that environmental purchasing behavior can be considered a simple purchasing behavior(buying used products, utilizing resource-saving products, and selecting environmental products) as well as an environmental conscious behavior throughout the whole product purchasing process. Research shows an active environmental-friendly purchasing behavior; however, research on artificial leather fashion products is limited and in need of further investigation.

3. Method

3.1. Research Problems and Research Model

The following research problems were implemented to understand the environmental-conscious behavior of consumers and the relationship of eco-friendly product attitudes and artificial leather fashion product purchasing intentions.
• Research Problem 1
Quantify consumer behavior towards environmental concepts.
• Research Problem 2
Understand the effects of environmentally conscious consumer behavior on eco-friendly product attitudes.
• Research Problem 3
Examine the effects of consumer attitude towards environmental-friendly products and artificial leather fashion product purchasing intentions.
• Research Problem 4
Study the controlling effect of consumer’s environmental interest on the relationship between environment-friendly product attitudes and artificial leather fashion product purchase intentions.

3.2. Measurement Tools
A questionnaire was used for the practical survey and a survey was conducted on consumers who had at least one artificial leather fashion product purchase experience. The content of the questionnaire consisted of questions related to environmental behavior, environmental-friendly product attitudes, artificial leather fashion product purchasing intentions, and environmental interest. Environmental-friendly behavior content were based on research and preliminary surveys by Park and Oh(2005), Kim(2004), and Hopkins and Nielsen(1991), which were measured in 20 questions on 5 point Likert criterion. There were 8 questions based on environmental-friendly product attitude research by Won(2003) and Jung(2009); in addition, there were 5 questions(5 points each) for the environmental interest of consumers by Cho and Kim(2003) and Rice et al.(1997). Statistical population characteristics such as gender, age, marital status, school, and occupation were measured on a nominal scale.

3.3. Data Collection and Analysis
A question survey collected data on consumers over 20 years of age who had artificial leather fashion product purchasing experiences. A preliminary survey asked 100 people from February 10th to 22nd 2012 and then ambiguous questions were modified to answer easily through the preliminary survey.

This research implemented an internet questionnaire from March 1st to 15th 2012 that provided a data sample of 426 responses. An SPSS 19.0 program conducted the frequency analysis of credibility, factors, and multiple regression of collected data. Men and women were divided by gender to account for population statistical characteristics of the research target data and consisted of 213 people each(50%). For age, there were 100 people in 20s(23.5%), 105 people in 30s(24.6%), 111 people in 40s(26.1%), and 110 people in

<table>
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<tr>
<th>Factor</th>
<th>Items</th>
<th>Factor Loading</th>
<th>Eigen Value</th>
<th>Variance %</th>
<th>Cronbach’s α</th>
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<tbody>
<tr>
<td>Civic activist participation</td>
<td>The problem of air pollution is something that the government and corporations should take care of; however, I also have to be interested in it and try to solve it.</td>
<td>.770</td>
<td>4.382</td>
<td>23.07</td>
<td>.80</td>
</tr>
<tr>
<td></td>
<td>I believe the environmental pollution problem is serious.</td>
<td>.675</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>The development of eco-friendly products by companies has to be done (through government regulations).</td>
<td>.660</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>I am interested in attending consumer environmental issue education classes held by schools, social communities or companies.</td>
<td>.605</td>
<td></td>
<td></td>
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<tr>
<td>Conservation consciousness</td>
<td>I usually use recyclable shopping bags when shopping.</td>
<td>.707</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>I have purchased recycled plastic, bottle or can products.</td>
<td>.674</td>
<td></td>
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<td></td>
<td>I am conscious of using water for personal hygiene in order to save water.</td>
<td>.669</td>
<td></td>
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<tr>
<td></td>
<td>I walk or use public transportation when going the nearby places to save energy and protect the environment.</td>
<td>.651</td>
<td></td>
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<td></td>
<td>I sort my recyclable garbage.</td>
<td>.606</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>I try not to use the disposable products.</td>
<td>.598</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recycling consciousness</td>
<td>I am very interested in environmental issues.</td>
<td>.669</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I am very interested in environmental management by companies or green marketing.</td>
<td>.631</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>I have an experience in purchasing recycled products at recycling shops or second-hand stores.</td>
<td>.620</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I believe it is better to use products that are environmentally less harmful, even though the price is a bit higher.</td>
<td>.605</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I am willing to endure inconvenience to solve environmental problems.</td>
<td>.590</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>I am currently more interested in the environmental issues compared to 10 years ago.</td>
<td>.580</td>
<td></td>
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</tbody>
</table>
50s (25.8%). As for marital status, there were 291 people married (68.3%) and 135 people single (31.7%). Education consisted of 122 (28.9%) high school graduates, 56 (13.1%) junior college graduates, 213 (50%) university graduates, and 34 (8.0%) graduate school students. Occupation was broken down into 119 (27.9%) businessmen, 77 (18.1%) technicians, and 78 housewives (18.3%).

4. Results and Discussion

4.1. Factor Analysis and Credibility Analysis

4.1.1. Environmental Conscious Behavior by Consumers

A factor analysis measured the validity of composition concepts through a main Varimax circulation analysis of angle spinning with Kaiser normalization. A factor loading figure over 0.5 and larger than 1.0 standard in the process of factor extraction was considered as an effective variable; therefore, the items with effective costs were extracted to be factorized after the factor circulation. Table 1 shows the results of the environmental conscious behavior factor analysis of consumers. Factor 1 consisted of questions called “Citizen’s Activity and Sense of Participation” about education participation in environmental problems such as pollution problems, environmental pollution, and environmental problems at school, society organization, and enterprises. Factor 2 consisted of questions called “Sense of Resource Savings” that inquired about shopping baskets when shopping, conserving water, and using mass-transportation to save energy. Factor 3 consisted of contents called “Sense of Recycling” that examined interest in environmental issues, recycled products, and products that are not environmentally toxic to the environment (even if more expensive). Factor 2, “Citizen’s Activity and Sense of Participation” (which the factor cost is below 0.5) and Factor 1 “Sense of Recycling” were removed. The total variable was 60.13% and the coefficient of confidence was more than 0.7%. Environmentally conscious behavior was classified into resource saving consciousness, participation consciousness, environment preservation, and recycling consciousness in the research related to the effect of materialistic tendency, environmental conscious attitude and behavior as analyzed by Park and Oh (2005). This research showed that a sense of resource savings and sense of recycling were partially consistent.

4.1.2. Eco-friendly product attitude of Consumers, Artificial leather fashion product purchasing intentions, and Environmental Consumer Interest

Table 2 shows the factor analysis results of fashion consumer eco-friendly product attitudes divided into artificial leather fashion product purchasing intentions and the environmental interest of consumers. Environmentally friendly product attitudes consisted of 7 questions and had a factor loading figure under 0.5. The total variable about this factor was 61.26% and the confidence coefficient was over 0.8. The artificial leather fashion product purchasing intention consisted of 5 questions with a total variable of 64.69% and a confidence of coefficient over 0.8.

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<th>Cronbach’s α</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eco-friendly product attitude</td>
<td>I feel more inclined towards eco-friendly fashion items than to normal items.</td>
<td>.84</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>I feel eco-friendly fashion items are more friendly than normal items.</td>
<td>.80</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>The eco-friendly fashion items are more attractive than the normal items.</td>
<td>.79</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The eco-friendly fashion items are more trustful than the normal items.</td>
<td>.79</td>
<td>4.30</td>
<td>61.26</td>
<td>0.81</td>
</tr>
<tr>
<td></td>
<td>I am interested in fashion items made of eco-friendly materials.</td>
<td>.77</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I am interested in eco-friendly fashion.</td>
<td>.77</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I intend to purchase eco-friendly items even if they are more expensive.</td>
<td>.70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Artificial leather purchase intentions</td>
<td>I intend to purchase eco-friendly artificial leather and not purchase real leather.</td>
<td>.83</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I intend to purchase eco-friendly artificial leather to protect animals and the environment.</td>
<td>.82</td>
<td>2.59</td>
<td>64.69</td>
<td>0.80</td>
</tr>
<tr>
<td></td>
<td>I intend to purchase eco-friendly artificial leather even though it is expensive.</td>
<td>.80</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I intend to purchase eco-friendly artificial leather even though the quality, form and touch are inferior.</td>
<td>.77</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer environmental concern</td>
<td>I usually donate to community chest drive TV programs.</td>
<td>.82</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I use both sides of the paper.</td>
<td>.80</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>I take great care of my health though I am busy.</td>
<td>.80</td>
<td>4.11</td>
<td>62.51</td>
<td>0.80</td>
</tr>
<tr>
<td></td>
<td>I usually use recyclable shopping bags or shopping baskets when shopping.</td>
<td>.78</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>I manage my expenses by keeping receipts and a household account.</td>
<td>.78</td>
<td></td>
<td></td>
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</table>
The environment interest of consumers consisted of 5 questions and the total variable was 64.69%; in addition, the confidence of coefficient was also high.

4.2. The effect of environmentally conscious consumer behavior attitudes towards eco-friendly products

The sense of activity, participation, saving resources, and recycling of citizens were designated as independent variables in order to understand the environmental conscious behavior effect of consumer attitudes on eco-friendly products. Environmental product attitudes were as subordinate variable in the multiple regression analysis; subsequently, Table 3 shows that citizen’s sense of activity, participation, saving resources, and recycling were important environmental product attitude factors. The sense of participation and citizen’s environmental-friendly product attitudes showed \( \beta = 0.188 \), \( t=5.018 ***, p<.001 \), conservation showed \( \beta = 0.191 \), \( t=5.096 ***, p<.001 \), and sense of recycling showed \( \beta = 0.578 \), \( t=15.394 ***, p<.001 \), which were statistically significant and the total explanation ability was 40.6%. The recycling conscious regression value was higher because consumers with more environmental interest and recycling activities were more amicable towards environment-friendly products. Research related to environmental-friendly fashion product purchasing activities followed the hypothesis of Jung(2009); subsequently, resource saving was the most important factor and seems to partially correlate with previous studies.

4.3. Effects of Environment-Friendly Product on Artificial Letter Fashion Product Purchase Intentions

We conducted an analysis of multiple regression with environmental-friendly attitude as an independent variable and fashion product purchasing intentions as a subordinate variable in order to understand the environmental product attitude effect on fashion product purchasing intentions. Subsequently, all attitude factors on environment-friendly products had a significant effect on artificial leather fashion product purchasing intentions. The environment-friendly products attitudes influenced at \( \beta = 0.655 \), \( t=18.230 ***, p<.001 \) and the total explanation ability was 41.6%. The regression model between environment-friendly product attitudes and artificial leather fashion product purchasing intentions was statistically significant in the standard of \( p<.001 \). The explanation ability of the regression model between environment-friendly product attitudes and artificial leather fashion product purchasing intentions was 42.9%. Larger numbers of consumers with an environmental interest results in higher artificial leather fashion product purchasing intentions.

5. Conclusion

This research analyzed the effects of consumer environmental consciousness behavior and eco-friendly attitude on the influential relationship of artificial leather fashion product purchase intentions, through consumers who have purchased leather products to provide basic marking strategy data for the leather fashion market. First, environmental consciousness behavior by consumers was
classified into citizen’s activity, participation, conservation, and recycling; however, the attitude on environment-friendly products and environmental interest by consumers appeared as single factors. Second, the effects of the environmental consciousness behavior by consumers influenced the environmental-friendly product attitudes. All environmental consciousness behavior factors significantly influenced attitudes. Third, the control effects of environmental interest on environmental product attitudes by consumers influenced leather product purchasing intentions and the environmental interest by customers showed the control effect of purchasing intentions.

The results of this study suggest a significance and implication of research. First, the behavior of environmental consciousness by consumers is classified into citizens’ activity, participation, conservation, and recycling. All environmental consciousness behavior factors were important factors towards environmental-friendly product attitudes. The research results show that appropriate plans in fashion business such as usefulness of design and business value (not by pursuit of trends) will need to be provided to fashion consumers. Detailed information on materials related to fashion products (including clothing, shoes, bags, and accessories) as the content of environment-friendly techniques and recycling methods will help consumers to evaluate environmental-friendly attitude products. Second, environmental-friendly attitude products influenced artificial leather product purchasing intentions. There is increased and more varied research on artificial leather. Artificial leather is unlike the traditional life cycle of discarding products from raw materials; there is an interest in the behavior on the natural environment that differentiates existing artificial leathers. It would be useful to utilize a scientific method to simplify the consumption consciousness and behavior of environmental goods. The practical survey in this research was limited to men and women aged from 20 to 50 and it would be difficult to extend the meaning to other classes of consumers. The results can differ depending on age, gender, and occupation, behavior on environmental consciousness and attitude on environment-friendly; subsequently, further research that considers all these issues is imperative. Artificial leather as well as future fashion product development research on artificial fur and environment-friendly fibers are suggested as other areas of research.

Acknowledgement

This work was supported by the National Research Foundation of Korea (NRF) grant funded by the Korea government (MEST) (No. 2012047656).

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