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Antecedents to Consumer

Ethnocentrism: A Fuzzy

Logic-Based Analysis Study

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Abstract

This study empirically examines a segment of consumers within the lordanian society who express high ethnocentric tendencies towards domestic products using fuzzy logic technique.

MATLAB® ANFIS has been employed to model the

relationships between three inputs (conservatism, dogmatism and worldmindedness) and one

mindedness) and one output (consumer ethnocentrism). The results of this research conclude that Sugeno type fuzzy model has the ability to

predict precisely consumers ethnocentric tendencies levels based on their socio-psychological variables. Overall, fuzzy logic can improve the research of consumer

ethnocentrism and can illuminate uncovered sides

in the area of consumer ethnocentrism.

Keywords: Consumer ethnocentrism, Fuzzy logic, Socio-psychological

variables

Introduction

Literature Review

The globalization of markets has changed the

competitive conditions facing organizations (Wiersema and Bowen, 2008).Over the past two

decades international investment activities have

increased extraordinarily (Weng, et al 2010). Recently, global marketing

activities have increased astonishingly due to the

technical and

communication developments (Chunget al

2009). Consumers' bias towards their national products is a significant

determinant of local

product purchase behavior (Josiassen, 2011). Indeed, exploring consumers'

exploring consumers' attitudes towards domestic and foreign products can help local and global

marketers to conduct more effective local and global

marketing strategies (Chéron and Hayashi, 2001). Despite the sharp

increase in foreign made

products availability all around the world, little research focused on this interesting development

(Lim and Darley, 2009). The increased consumer

awareness of foreign cultures, global markets and foreign brands has increased the importance of

studies that explore consumer ethnocentric

tendencies (Nijssen and Herk, 2009). In this context,

the concept of consumer ethnocentrism can help marketers to conduct effective marketing strategies. Organisations and companies, in fact,

need to consider the level of consumer ethnocentrism among consumers before launching their products in

foreign countries (Phau and Chan, 2003). Ethnocentrism

is a purely sociological concept that distinguishes between in-groups and outgroups (Simp, 1984). It

refers to blind acceptance to the in-group and blind rejection to out groups. It leads individuals to overstate everything in

their own culture that

differentiates them from others (Al Ganideh, 2010).

Therefore, ethnocentrism may cause contempt to other people and their cultures. It is clear that

most individuals view their own group as the centre of the universe and evaluate other cultural groups from their perspective (Yu and

Albaum, 2002). The earliest

leading research on consumer ethnocentrism was conducted by Shimp and Sharma in 1987. The

researchers define consumer ethnocentrism

as: 'The beliefs held by the consumers about the appropriateness, indeed morality, of purchasing

foreign made products' (p.240). Shimp and Sharma

applied ethnocentrism to the study of marketing and consumer behaviour. They relate the term 'consumer

ethnocentric tendencies' to consumers' beliefs related

to the appropriateness and morality of purchasing

morality of purchasing foreign made products (Klein et al (1998). The concept of consumer

ethnocentrism was

developed to capture consumer emotions related to purchasing foreign made

to purchasing foreign made products (Shimp, 1984). Bruning (1997) argues that national loyalty and consumer ethnocentrism effects are the outcomes of group behaviour and initiate from group communication. According

to Shimp and Sharma

(1987), consumer ethnocentrism gives the

ethnocentrism gives the individuals a sense of identity; feelings of belonging to the in-group.

Ethnocentric tendencies in

consumers are a part of a constellation of social. psychological and demographic influences

(Sharma et al 1995). Thus,

it offers individuals a sense of distinctiveness, feelings of belongingness and a justification of why some purchase behaviours are

suitable, or unsuitable to

the group (Witkowski and Beach, 1998). Nevertheless,

it is critical to recognize that consumer ethnocentrism tendencies may change due to time,

historical events, economic crises or political status (Yu and Albaum, 2002).

and Albaum, 2002). Generally, consumers become more ethnocentric towards purchasing local

products during crisis time (Al Ganideh, 2010).

The consequences of consumer ethnocentrism (whether or not

ethnocentrism leads consumers to purchase their national products)

their national products) have been well researched (i.e Sharma et al 1995; Klein et al 1998: Kim and

Pysarchik, 2000; Huddleston et al 2001; Orth

and Firbasova, 2003). However, the sources of consumer ethnocentrism phenomenon have not been well acknowledged (Al Ganideh, 2010). It is crucial to be aware of what lead consumers to be

ethnocentric. This study raises awareness of the

importance of examining socio- psychological antecedents to consumer

antecedents to consumer ethnocentrism in different countries and cultures. Earlier, Shimp and Sharma

(1987) developed a scale to measure consumers'

ethnocentric tendencies (CETSCALE) for purchasing foreign-versus American made products. Shimp and

Sharma (1987) described their scale as a measure of

tendency rather than attitudes, since attitude proposes a superior degree of objectivity specifically

than the CETSCALE is intended to capture. The development and international application of the CETSCALE is a vital

contribution to consumer

research. The CETSCALE is the most widely used instrument to examine consumer ethnocentric

tendencies (Klein et al 1998). It became a part of

any company's tracking studies of consumer attitudes in domestic and

attitudes in domestic and foreign markets (Al Ganidehet al 2007). International companies

and organizations could use the CETSCALE as part of their periodic tracking

their periodic tracking studies (Shimp and Sharma, 1987). However, marketers

might find the CETSCALE

less relevant and useful than giving more focused and precise information that provide specific insight concerning consumer

aversion towards a

particular country (Klein et

al 1998).

Consumer Ethnocentrism and Socio-psychological Antecedents

Overall, there is a dearth of studies examining socio-

psychological variables as antecedents to consumer ethnocentrism. Moreover, the results of previous

empirical studies regarding the influences of socio-

psychological antecedents on consumer ethnocentrism are inconsistent. Recently, a

number of researchers have concentrated on exploring patriotism, nationalism and internationalism as antecedents of consumer

Balabaniset al 2001: Lee et

ethnocentrism (i.e

al 2003; Al Ganideh et al 2007). The current study examines the influence of

examines the influence of socio-psychological antecedents; namely, dogmatism, conservatism

and world-mindedness on consumer ethnocentrism.

Caruana and Magri (1996) define dogmatism as a personal attribute that

differentiate reality in black

and white. Caruana and Magri (1996) found in

Malta that consumers with higher levels of dogmatism express higher levels of consumer ethnocentrism.

Dogmatic individuals are those who hold beliefs and disbeliefs that are rigidly

demarcated within the cognitive system (Crowson, 2009, p.265). Sharma et al

(1995, p.28) define conservatism as 'a tendency

to cherish traditions and social institution that have survived the test time and to introduce changes only

occasionally, reluctantly and gradually'.

Conservatism has become connected in the U.S. to the political opinions that defend liberty, good

character, strong families and the importance of

and the importance of religion (Blitz, 2010, p.61). Overall, a devotion to the precedent is the core of

conservatism (Strauss, 2011).

A positive relationship was found between conservatism and

consumer ethnocentrism in South Korea (Sharma et al

1995).Ruyter et al (1998) found a positive significant influence for conservatism

on consumer

ethnocentrism for consumers from the

Netherlands and Korea. Moreover, in France, Javalgi et al (2005) concluded that

conservatism has a

significant influence on consumer ethnocentrism.

consumer ethnocentrism.
Rawwas and Rajendar
(1996) argue that it is
essential for international

marketers to give attention

to consumers' ideologies such as world-mindedness.

World-mindedness does not mean cultural openness. A world-minded person is one whose most

important reference group is mankind, rather than

Americans or English or Chinese (Nijssen and Douglas, 2008). It is a state of mind that uses

humankind as reference group (Shankarmahesh,

2006).Rawwas and Rajendar (1996) indicated that world-minded consumers perceive higher quality for foreign products. Consumers should not interact with

peoples from other cultures to be world-minded. Nevertheless, they just have to have positive attitudes towards problems of the humanity. Balabanis et al

(2001) found that worldmindedness has no significant influence on

consumer ethnocentrism for two samples from Turkey and the Czech

Republic. However, Lee et al (2003) concluded that world-mindedness has

negative significant influence on consumer ethnocentrism in the U.S.A.

ethnocentrism in the U.S.A. Surprisingly, Al Ganideh et al (2007) found that world-

mindedness has positive

significant influence on consumer ethnocentrism for a student sample in Iordan, Overall, the

advantages of examining socio- psychological

antecedents such as dogmatism, conservatism and world-mindedness to consumer ethnocentrism

and world-mindedness to consumer ethnocentrism lie in the opportunities of segmenting consumers based on their favorable and unfavorable disposition to foreign products and could help to know more

regarding the sources of consumer ethnocentrism

phenomenon (Caruana and Magri 1996; Ruyter et al

1998; Shankarmahesh, 2006; Al Ganideh et al 2007). It is known that

differences between

consumers in different countries still exist due to diversities in culture. The concept of consumer ethnocentrism can help marketers to differentiate markets and strategies and to position their products very well domestically and globally. Overall, it is dangerous for domestic and

global marketers to

suppose that consumers all around the world are similar. Nevertheless, they need to know more about

consumers and their attitudes all around the

world. Yet, this research is the first that offers those interested in the area of consumer ethnocentrism all around the world more information and

understanding about consumer ethnocentrism concept in Jordan. This

concept in Jordan. This research aims to examine socio- psychological variables; namely,

dogmatism, conservatism and world mindedness as antecedents to consumer ethnocentrism for Iordanian consumers.

Methodology

Generally, fuzzy logic can improve the study in the area of customer preferences. The application of fuzzy logic theory to consumer hehavior research can

improve the research in the area of consumer ethnocentrism (Liu, 2009).

Enache (2010) argues that fuzzy logic has started to

help marketers and managers to probe new insights in their data. In this

context, Al Ganideh et al

(2011) indicated that fuzzy logic can help in developing the research of consumer

the research of consumer ethnocentrism by giving accurate insights to international marketers regarding every single customer ethnocentric tendencies. To examine the influence of socio-

psychological variables; namely, dogmatism, conservatism and worldmindedness on consumer ethnocentrism, a survey was conducted focusing on

the Jordanian consumers. Iordanian consumers have a different culture and lifestyle to their American and European counterparts who have been mainly examined in earlier research (i.e. Caruana and

Magri, 1996; Kim and Pysarchik, 2000; Javalgi et

Pysarchik, 2000; Javalgi et al 2005). The respondents were asked to answer a modified 17-item 5-point

Likert format CETSCALE

(Shimp and Sharma, 1987)-Jordanian modified version.

Moreover, they were asked to answer 7-item 5-point Likert format Rawwas and Rejendran (1996) worldmindedness scale and 5item 5-point Likert format

Bruning et al (1985) dogmatism scale. These two scales were used in

marketing studies. To

measure conservatism, and due to the specialty of the Jordanian society, the

Jordanian society, the respondents were asked to answer 4 item 5-point Likert format related to

tribes in Jordan, tribal law, honor killing and the role of women in the political life in Jordan developed by the

researchers based on open questions. The Cronbach's

alpha measure of internal consistency was carried out to assess the overall reliability of the used

to assess the overall reliability of the used scales. All used scales have been found very reliable as

Cronbach's Alpha values have exceeded 0.70 for the four scales. The recommended minimum

acceptable level of reliability for Cronbach's

alpha is 0.60, using Hair et al (1998). Out of 352 questionnaires distributed

questionnaires distributed to random Jordanian shoppers in 3 main market areas in Irbid City (north of

Jordan); Amman City (Centre of Jordan) and

Karak City (south of Jordan), 272 were usable. Questionnaires with

substantial missing data

were excluded (Sekaran and Bougie, 2010). Data has been collected in October

been collected in October and November 2009. Pecher and Tregear (2000) criticized previous countryof-origin studies as many of them used students as samples and preferred to reach a broad profile of respondents by collecting

data from major sites in city

centers such as busy shopping streets.

Analysis and Discussion

Unquestionably, fuzzy logic can improve the research of

consumer ethnocentrism and can illuminate uncovered sides in the area of consumer

uncovered sides in the area of consumer ethnocentrism. Fuzzy logic has been adopted to analyze the data in this study. The study is the first

to apply fuzzy logic on a consumer ethnocentrism research. However, previous studies in the field of consumer ethnocentrism used traditional statistical techniques to examine the nature of relationships between sociopsychological variables and

consumer ethnocentrism. Fuzzy logic has been used

in large numbers of applications since it was first proposed by Zadeh in 1965. It is important to

bear in mind that Zadeh has introduced a new methodology in defining

notations that cannot be defined precisely. In a classical {0, 1} set, an object can be either a member of the set or not a member of the set. However, in fuzzy sets defined by Zadeh

(1965) objects can belong to the set with different

degrees of membership.
That means any number in

the interval [0, 1] where 0 denotes that the object does not belong to the set

at all, and 1 denotes that

the object belongs completely to that group.

Overall, there are four main

Overall, there are four main components of a fuzzy system; namely,

fuzzification module.

inference engine, knowledge base and

defuzzification).
Fuzzification module
converts a crisp input to its

corresponding fuzzy value.

In addition, inference engine (rule-based system) applies fuzzy rules to compute the output contributed by each rule individually. Moreover.

knowledge base contains all the rules and membership functions.

membership functions.
Furthermore,
defuzzification module
combines the several rules

outputs into one crisp value and then denormalizes the output value if needed.

MATLAB® ANFIS, a training mechanism for

Sugeno-type fuzzy inference system, has been used in the current study to

used in the current study to model the relationship between three inputs dogmatism, conservatism and world-mindedness and one output ethnocentrism (Figure 1). Subtractive

(Figure 1). Subtractive clustering was used to generate the fuzzy inference system where the

clustering parameters were chosen as the following range of influence (0.5),

range of influence (0.5), squash factor (1.25), accept ratio (0.5) and reject ratio (0.15). Depending on the

values of these three parameters, an 11 rules fuzzy inference system

(FIS) was generated with 9 membership functions for

each variable of inputs and the output.

The following are the specifications of the used fuzzy inference system:

type: 'sugeno' and Method: 'prod' or Method: 'probor' defuzz Method: 'wtaver'

imp Method: 'prod' agg Method: 'max' input: [1x3 struct] output: [1x1 struct]

rule: [1x9 struct] trndata: [272x4 double]. A first

order Sugeno type fuzzy model has three inputs (x,

y, and z) and one output (f)

and it has rules of the following form:

IF x is a_1 and y is b_1 and z is

 c_1 **Then** f is $h_1x + i_1y + j_1z + r$

Fig1.Fuzzy System

Please See Fig1. in Full PDF Version After training the system with MATLAB® ANFIS (number of epochs is

(number of epochs is 1000), the following membership functions are obtained (Figure 2):

Fig2.Membership

Please See Fig2. in Full

Functions

Table 1 contains the output membership functions

parameters.

Table 1: Output Membership Functions Parameters

Please See Table 1 in Full

Figures 3(a), 3(b) and 3(c) describe the nature of the relationships between

socio- psychological variables; namely, dogmatism, conservatism

and world-mindedness and consumer ethnocentrism

individually.

Fig3 (a).Dogmatism and Consumer Ethnocentrism Relationship

Relationship

Please See Fig3 (a). in Full

Fig3(b).Conservatism and Consumer Ethnocentrism Relationship

Please See Fig3(b). in Full

Fig3(c).Worldmindedness and Consumer Ethnocentrism

Relationship
Please See Fig3(c). in Full

Figure 3(a) shows that there is a proportional relationship between

consumer ethnocentrism and dogmatism which implies that people with

high level of dogmatism will show high ethnocentric tendencies. Also, it is clear

tendencies. Also, it is clear from Figure 3(b) that a proportional relationship is found between conservatism and ethnocentrism implying that conservative consumers have high

ethnocentric tendencies towards their local

products. On the other hand, Figure 3(c) shows an inverse relationship between world-mindedness

ethnocentrism. Consumers

and consumer

who have emotional support for the problems of humanity express low consumer ethnocentrism towards purchasing their domestic products.

Regression results have confirmed the abovementioned results (Table 2). The results show

that dogmatism and conservatism have

significant positive influence on consumer ethnocentrism. However, it

ethnocentrism. However, it is clear that worldmindedness has negative significant influence on

consumer ethnocentrism. Conservatism has the

strongest influence on consumer ethnocentrism.

Table 2: Regression on Consumer Ethnocentrism

Please See Table 2 in Full

Figures 4(a), 4(b) and 4(c) represent three dimensional graphs that describe the effect of two

inputs at a time on consumer ethnocentrism.

Fig4 (a).Dimensional Graph (Dogmatism,

Conservatism and

Consumer Ethnocentrism)

Please See Fig4 (a). in Full

Fig4 (b).Dimensional Graph (Dogmatism,

World-mindedness and Consumer

Ethnocentrism)

Please See Fig4 (b). in

Full PDF Version

Fig4(c).Dimensional Graph (Conservatism, World-mindedness and

Consumer Ethnocentrism)

Please See Fig4(c). in Full

PDF Version

It can be concluded from Figures 4(a), 4(b) and 4(c)

that consumers with high level of dogmatism and high level conservatism will

express high ethnocentric

tendencies. However, for consumers with high dogmatism level, high ethnocentric tendencies are

expected regardless of the level of world-mindedness

they show. Moreover, it is expected for highly conservative consumers to show high ethnocentrism

regardless of their worldmindedness level. One of the best benefits of this Sugeno type fuzzy model is that one can predict the degree of ethnocentrism of a certain consumer by

simply entering two of the

examined three inputs in this study dogmatism, conservatism and world-

mindedness. Moreover, one can predict using the Sugeno model for two

different costumers who has higher ethnocentric tendencies simply by having only three inputs for

those two consumers.

Fig 5. Inputs and Output for a Particular Consumer (Example 1)

(Example 1)
Please See Fig5. in Full

PDF Version

As an example of the aforementioned case, see the following situation.

the following situation.
Figure 5illustrates the inputs and output for a particular consumer. Based

on the consumer dogmatism, conservatism and world-mindedness levels and using the Sugeno

type fuzzy model, the consumer should show

high ethnocentric feelings and score roughly 103 out

of 119 on a 17-item CETSCALE. The real CETSCALE value for this consumer based on Sugeno type fuzzy model is 113 which is very close to 103. Figure 6 is related to another consumer with

different inputs of sociopsychological variables (dogmatism, conservatism and world-mindedness).

Employing Sugeno model, one can predict based on the consumer's level of

dogmatism, conservatism

and world-mindedness that the consumer will express low consumer

low consumer ethnocentrism and will score around 47.6 out of 119 on a 17-item

CETSCALE. The actual CETSCALE score is roughly

CETSCALE.

identical to what the model predicts, the consumer has scored 44 on a 17-item

Fig6.Inputs and Output for a Particular Consumer (Example 2)

(Example 2)
Please See Fig6. in Full

PDF Version

Conclusions

Global marketers should increase their understanding of how consumers in different

countries perceive foreign products. The concept of consumer ethnocentrism provides marketers with

better understanding of why consumers prefer to

buy domestic or foreign products. However, companies that want to go globally should not

undervalue consumer ethnocentric tendencies.

Socio- psychological variables could help marketers to know more regarding the sources of consumer ethnocentrism

phenomenon. Fuzzy model

has approved to be beneficial and accurate in predicting the consumers' ethnocentric tendencies level based on their sociopsychological variables.

The results of this study are promising and can help international marketing researchers to predict consumers' ethnocentrism

based on their socio-

psychological variables. It can be concluded that the impact of sociopsychological variables on

ethnocentrismmay be

consumer

country or culture specific. Dogmatism and conservatism were found to

conservatism were found to have a significant positive influence on consumer

ethnocentrism: however.

world-mindedness has a negative significant influence. Conservatism has the strongest influence on

consumer ethnocentrism.

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Appendix (Constructs and Items Used)

Items Used)

CETSCALE (Shimp and

Sharma, 1987)

Jordanian people should always buy Jordanian-made products instead of

imports.

Only those products that are unavailable in Jordan should be imported.

should be imported.
Buy Jordanian-made products, keep Jordan working.

Jordanian products, first, last and foremost. Purchasing foreign-made

products is un-Jordanian.

It is not right to purchase foreign products, because it

puts Jordanians out of jobs. A real Jordanian should always buy Jordanian-made

products.

We should purchase products manufactured in Jordan instead of letting

other countries get rich off

us.

It is always best to purchase Jordanian products.

There should be very little trading or purchasing of

goods from other countries unless out of necessity.

Jordan should not buy foreign products, because this hurts Jordanian

business and causes unemployment.

Curbs should be put on all imports.

It may cost me in the long run but I prefer to support Iordanian products.

Jordanian products.

Foreigners should not be allowed to put their

products on our markets.

Foreign products should be taxed heavily to reduce their entry into Jordan.

We should buy from foreign countries only those

products that we cannot obtain within our own country.

Jordanian consumers who purchase products made in

other countries are responsible for putting their fellow Jordanians out

of work.

Conservatism

Jordanian tribes should continue to have a central role in Jordanians' life.

Jordanians should respect and follow tribal laws when it is needed.

I do not support the new Jordanian Government laws

which increase punishment on Jordanians who do

honor killing.

Women in Jordan should not be appointed in top country positions.

World-mindedness (Rawwas and Rejendran, 1996)

I find imported goods more desirable than domestically produced products.

All national governments should be abolished and replaced by one central

government.

It would be better to be a citizen of the world than of any particular country. My quality of life would

improve if more imported goods were available.

Immigration should be controlled by an international organization

rather than by each country

independently.

Where a good is produced does not affect my decision to purchase that item.

Jordan should permit foreigners to immigrate

here even if it lowers our standard of living.

Dogmatism (Bruninget al 1985)

I am not very insistent in an argument.

I do everything in my power in order not to have to admit defeat.

People find it difficult to convince me that I am

wrong on a point no matter how hard they try.

how hard they try.

I would get into a long discussion rather than

admit that I am wrong.

When someone opposes me on an issue, I usually find myself taking an even stronger stand than I did at

first