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A brand preference and repurchase intention model: the role of consumer experience

Reham Ebrahim\textsuperscript{a,b}, Ahmad Ghoneim\textsuperscript{a}, Zahir Irani\textsuperscript{a} and Ying Fan\textsuperscript{c}

\textsuperscript{a}Brunel Business School, College of Business, Arts and Social Sciences, Brunel University London, Uxbridge, UK; \textsuperscript{b}Faculty of Commerce, Tanta University, Tanta, Egypt; \textsuperscript{c}School of Business & Management, Queen Mary University of London, London, UK

ABSTRACT

Consumer brand preference is an essential step towards understanding consumer choice behaviour, and has therefore always received great attention from marketers. However, the study of brand preference has been limited to traditional marketing focusing on functional attributes to maximise utility. But now the shift to experiential marketing broadens the role of the brand from a bundle of attributes to experiences. Technological advancements have helped to increase the similarities between brand attributes and product commoditisation. Consequently, consumers cannot shape their preferences among brands using rational attributes only. They seek out brands that create experiences; that intrigue them in a sensorial, emotional and creative way. This study seeks to develop a model that provides an understanding of how brand knowledge and brand experience determine brand preference and to investigate its impact on brand repurchase intention. Accordingly, exploratory focus group discussions are employed followed by a survey of mobile phone users in Egypt. The findings provide insights into the relative importance of consumer perceptions on different brand knowledge factors in shaping brand preferences. It also demonstrates the significance of consumers’ experiential responses towards brands in developing their brand preferences that in turn influence brand repurchase intention. The model therefore offers managers a new perspective for building strong brands able to gain consumer preferences.

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Branding; brand preference; brand experience; brand knowledge; mobile phones; mixed-method methodology

Introduction

Brand preferences have long been explained using traditional models, which largely focus on consumers’ cognitive judgement of brand attributes on a rational basis. However, the shift to experiential marketing, the cornerstone of branding, has expanded the role of the brand from a bundle of attributes to experiences. It also considers both the rational and irrational aspects of consumer behaviour (Schmitt, 1999, 2009). In addition, technological advances have increased the similarities between brands and product commoditisation. Therefore, consumers find it difficult to
differentiate between brands on functional attributes alone (Petruzzellis, 2010; Temporal & Lee, 2000). Instead, they seek the brand that creates an experience; that intrigues them in a sensorial, emotional and creative way. Such experiential appeals are important components of a brand, and are used in brand differentiation and enhancement of consumer preference (Berry, Carbone, & Haeckel, 2002; Schmitt, 2009; Zarantonello & Schmitt, 2010). Therefore, companies competing in such markets face difficulties, since their survival requires building competitive advantage by delivering memorable experiences (Gentile, Spiller, & Noci, 2007; Schmitt, 1999, 2009). Currently, such experiences are fundamental to the creation of consumer brand preferences, and the stimulation of future purchasing decisions (Gentile et al., 2007; Schmitt, 1999, 2009).

Even though some studies indicate the potential role of experience for the development of consumers’ preferences towards brands, this impact has not been explicitly addressed. Such experiences provide experiential values leading to the preferential treatment of a brand similar to the value of utilitarian attributes (Brakus, Schmitt, & Zarantonello, 2009). Therefore, it is postulated that the experiential view will supplement the hegemony of traditional information processing theories to understanding consumers’ preferences for brands. The possible interactions between cognitive information processing and experience are considered essential in analysing consumer preference dynamics.

Thus, this research seeks to provide a better understanding of brand preference development by providing answers to three questions: first, what is the impact of different brand knowledge factors on consumer brand preferences? Second, how do brand experiences affect consumer brand preferences, and how do they interact with brand knowledge factors in shaping consumer preferences? Finally, how do consumer brand experiences and brand preferences motivate repurchase intention?

The article proceeds as follows. In the ‘Theoretical background and research hypotheses’ section, we explain the conceptual background to our study and derive hypotheses for investigation. In the ‘Research Methodology’ section, we introduce the context of our study and illustrate the methods of data collection and analysis. In the ‘Results’ section, we present the data analysis results of the empirical study and offer a summary of the research findings; we then highlight our theoretical contribution, draw several implications for practitioners as well as noting the study’s limitations. Finally, in the last section, we offer our conclusions including suggestions for further research.

Theoretical background and research hypotheses

Brand preference

Consumer attitude models, such as Fishbein’s model (1965), which are based on the expectancy-value model, are commonly used to understand consumer preferences. According to this model, the consumer’s preference for a brand is a function of his/her cognitive beliefs about the brand’s weighted attributes (Bass & Talarzyk, 1972; Bass & Wilkie, 1973). This model contributes to the study of preferences and is still widely used (Allen, Machleit, Kleine, & Notani, 2005; Muthitcharoen, Palvia, & Grover, 2011). However, it has been criticised over the years for the following: First, brand preference is measured by a single value, the result of an algebraic equation (Bagozzi, 1982), and focuses on
utilitarian beliefs as the main driver of consumer evaluation responses. Second, it ignores other sources, such as emotional responses (Agarwal & Malhotra, 2005; Allen et al., 2005), which contribute to preference development (Bagozzi, 1982; Grimm, 2005; Zajonc & Markus, 1982). Third, the narrow view of this model limits its use to certain types of mainly utilitarian products (Park & Srinivasan, 1994). However, the applicability of multi-attribute models to products with tangible attributes that contribute only in a minor way to consumer preferences has been questioned (Holbrook & Hirschman, 1982; Zajonc & Markus, 1982). Fourth, the inclusion of weightings as a part of the algebraic equation presented in this model decreases its predictive power (Churchill, 1972; Sheth & Talarzyk, 1972). Besides, the halo effect of this model can lead to wrong decisions related to brand design and positioning (Leuthesser, Kohli, & Harich, 1995). This has sparked the need to consider other paths to brand preference formation other than the consumer’s salient beliefs of brand attributes.

Moreover, psychologists view preference as a learning construct and define experience and information processing as the two main sources of consumer preference learning (Amir & Levav, 2008; Howard & Sheth, 1969; Sheth, 1968). Howard and Sheth (1969) suggest that brand preference refers to consumers’ predisposition towards certain brands that summarise their cognitive information processing towards brand stimuli. This theory and other information processing models (Bettman, Capon, & Lutz, 1975) emphasise both the central control unit and the mental abilities of consumers. Therefore, it follows that a consumer’s perception about brand attributes leads to preferences or attitudes, which affects his/her intentions and brand choices (Bagozzi, 1982). Thus, preference represents a transition state between the inputs and outputs of the consumer choice model. It is the link between information processing and the intention to actually purchase or choose (Bagozzi, 1983). It is suggested that experience should be combined with the brand meaning stored in consumers’ minds to develop preferences. This research defines brand preference as a behavioural tendency that reflects a consumer’s attitude towards a brand.

As a direct source of consumer preferences, it is suggested that experience promotes better memory with vivid and concrete information (Paivio, 1971). Schwarz (2004) indicates that consumers rely on their experiences as trusted sources of information, to judge between alternatives and make choices. Consumers prefer brands that provide a meaningful experience (Goode, Dahl, & Moreau, 2010).

Brand experience

The concept of consumer experience emerged at the beginning of the 1980s (Holbrook & Hirschman, 1982) to overcome the limitations of traditional consumer behaviour theories. This view highlights the importance of neglected variables such as considering consumers as emotional beings as well as thinkers (Addis & Holbrook, 2001). It investigates consumer responses to the symbolic, aesthetic, imaginative and fantasy meanings of the product, raising the role of multi-sensory experience aspects (Addis & Holbrook, 2001; Hansen, 2005; Hirschman, 1989; Holbrook & Hirschman, 1982; Tsai, 2005). Accordingly, this view expands and supplements the information processing perspective, enriching it with the experiential perspective.
Despite this trigger, the concept of consumer experience did not return to the fore until the end of the 1990s, with Pine and Gilmore (1998) introducing experience as an upgrade or progression of economic value. Schmitt (1999) then positioned the consumer’s holistic experience into brand marketing, discussing the reasons behind the shift from traditional marketing to experiential marketing, and proposed strategic experiential modules (SEMs). According to Gentile et al. (2007), experience is a continuous concept that reflects the irrational aspects of consumers interacting with the brand, and goes beyond the bounded rationality assumption. From this perspective, while the brand is therefore perceived as a rich source of experience providing value to consumers (Schmitt, 1999), according to Tynan and McKechnie (2009), value is not an added component to the brand but is created whilst consumers are experiencing the brand.

Brand experience is defined as consumers’ internal subjective and behavioural responses induced at different levels of interaction, both direct and indirect, with brand-related stimuli (Brakus et al., 2009; Meyer & Schwager, 2007). The results of these interactions are the experiential responses stored in the consumer’s memory (Pine & Gilmore, 1998). This implies a new role for the brand as an experience provider rather than as an identifier (Schmitt, Brakus, & Zarantonello, 2014). Consumer experience is holistic and distinguishes between basic cognitive, affective and sensorial systems (Gentile et al., 2007). It starts before the actual purchase, continues during the purchase or live experience and lasts as a memorable experience (Carù & Cova, 2003; Tynan & McKechnie, 2009). Brand experience captures the sensorial, emotional, intellectual, behavioural (Brakus et al., 2009), social (Chang & Chieng, 2006; Schmitt, 1999), pragmatic and lifestyle experiential aspects of the brand (Gentile et al., 2007). The psychological responses, cognitive interpretations and behavioural expressions from the mutual overlapping interactions with inputs constitute consumer experience (Holbrook & Hirschman, 1982). Through these interactive experiences, consumers will build their preferences and purchasing decisions (Carbone, 2004; Holbrook, 2007).

The emotional component is an important aspect of consumer experience (Havlena & Holbrook, 1986). Consumers engage emotionally with the brand and develop positive feelings towards it (Schmitt, 1999). The role of emotional responses in understanding consumer preferences (Grimm, 2005) and repurchase intention (Tsai, 2005) has been demonstrated. Zajonc (1980) suggests that sensorial responses from a consumer’s exposure to a brand precede affective responses. Despite the existence of different types of responses that define consumers’ brand experiences there is no set of definite responses to describe consumer experiences with brands.

The experiential cues evoked during consumption can determine consumer preferences (Berry et al., 2002). It is argued that brand experience plays a fundamental role in determining consumer preferences and future decisions (Brakus et al., 2009; Gentile et al., 2007). The consequences of brand experience include enhancement of consumers’ behavioural intentions, verified in an online context (Morgan-Thomas & Veloutsou, 2013; Rose, Hair, & Clark, 2011), and brand loyalty (Brakus et al., 2009; Ismail, Melewar, Lim, & Woodside, 2011; Pullman & Gross, 2004).

Based on the aforementioned, it can be hypothesised that:
**H1.** Brand experience will have a direct positive effect on brand preference (H1a) and repurchase intention (H1b).

**Brand knowledge**

The holistic perspective of brands was emphasised by the content of brand knowledge described by Keller (1993, 2003). Cognitive beliefs are not limited to consumer perceptions about brand knowledge constituted at the conscious level (Holbrook & Hirschman, 1982). Such non-attributed associations have been proven to contribute towards shaping consumer brand preferences (e.g. Chitturi, Raghu Nathan, & Mahajan, 2007; Grimm, 2005; Okada, 2005; Overby & Lee, 2006; Sirgy et al., 1997). Brand knowledge is conceptualised based on the meanings that consumers learn about and associate with the brand in their minds. These meanings include utilitarian and functional, economic and rational attributes/benefits associations, and symbolic or imaginative, sensory associations (Erdem et al., 1999; Keller, 1993; Plummer, 2000). Keller (1993) argues that brand-related attributes are elicited from intrinsic cues, while non-related attributes of brands can be developed from information about price, appearance, brand personality and self-congruity. Petruzelli (2010) identifies brand knowledge as symbolic/emotional, utilitarian and economic associations.

In studying consumer preference, economists consider price as a constraint in utility maximisation. High importance is given to price prior to purchasing decisions (McFadden, 1999). Price is an important extrinsic cue (Zeithaml, 1988), and should be included as an independent component in a utility model predicting consumer preferences (Hayakawa, 1976). It is a significant factor affecting consumer choice apart from intrinsic brand cues (Horsky, Misra, & Nelson, 2006). Price is a dimension of brand equity, which affects brand preference (Chang & Liu, 2009; Cobb-Walgren, Ruble, & Donthu, 1995; Tolba & Hassan, 2009), and measures brand loyalty (Simon & Sullivan, 1993).

Appearance is considered by Keller (1993) to be a non-product attribute, unrelated to brand performance or functionality. A product’s appearance can have a symbolic, aesthetic value that affects consumers’ product evaluation (Creusen & Schoormans, 2005), and acts as a major differentiating attribute in consumer preference and choices (Reimann, Zaichkowsky, Neuhaus, Bender, & Weber, 2010). Firms are shifting from tangible and functional product attributes towards creating aesthetically appealing designs. In addition, associations such as brand personality (Aaker, 1997) and self-congruity (Sirgy et al., 1997) have been demonstrated to build consumer preferences.

Therefore, the cognitive information that constitutes consumer brand knowledge is composed of their perceptions on attributes, price, appearance and symbolic associations such as brand personality and self-congruity. These factors reflect the functional, economic, aesthetic and symbolic/emotional brand meanings.

**Attribute perception**

Attribute perception refers to consumers’ salient beliefs about a brand’s intrinsic cues, including product-related attributes and associated functional and experiential benefits (Czellar, 2003; Grimm, 2005; Keller, 1993; Park & Srinivasan, 1994). Consumer perceptions
of brand (product-related) attributes positively affect their preferences (Cobb-Walgren et al., 1995; Myers, 2003; Park & Srinivasan, 1994). Traditional views, such as the Fishbein model (1965), consider consumer preferences to be based entirely on consumers’ cognitive beliefs about the brand attributes (Allen et al., 2005). In the broad sense, these beliefs define the cognitive structure and constitute consumer expertise (Alba & Hutchinson, 1987). Consumer perceptions about a brand’s physical, functional and utilitarian attributes contribute to brand experience (Gentile et al., 2007; Rondeau, 2005; Tynan & McKechnie, 2009). Yet, the verbal cues are important stimuli enhancing consumer brand experiences. Therefore, it can be hypothesised that:

**H2.** Attribute perception will have a positive effect on brand experience (H2a) and brand preference (H2b).

**Price**

Price as an extrinsic cue is encoded by the consumer to constitute an important component of monetary value perception (Zeithaml, 1988). It is an important factor in brand purchase and consumer choice (Erdem, Swait, & Valenzuela, 2006). The economist’s assumption of rationality conceives price as an aspect of consumer rationality (McFadden, 1999). However, irrational consumers seeking hedonic brand benefits also perceive brand price as an important factor in brand choice (Lee, 2009; Park, Kim, Funches, & Foxx, 2012). Although Petruzzellis (2010) verified that rational consumers who focus on tangible brand attributes assign greater importance to price than irrational consumers, price remains an important positive or negative cue in consumer behaviour (Lichtenstein, Ridgway, & Netemeyer, 1993). The role of price as an independent factor on consumer brand preferences has been demonstrated (Alamro & Rowley, 2011; Petruzzellis, 2010; Schoenfelder & Harris, 2004). In experiential marketing, price is the cost of delivered experiences and the consumer’s perceptions of price fairness, which contribute to his/her experience (Brakus et al., 2009). Pine and Gilmore (1998) presume that the product price contributes to the creation of consumer experience. The authors suggest that the consumer price experience can be considered as a progression of the economic value (Pine & Gilmore, 1998; Schmitt, 1999), or that the traditional mix of price and quality goes beyond money (Mathwick, Malhotra, & Rigdon, 2001). Consumers may be willing to pay a premium for the brand experience, but not its cost (Pine & Gilmore, 1998; Verhoef et al., 2009). Empirically, the price of service positively affects the consumer experience in hospitality marketing (Ismail, 2010). Moreover, Verhoef et al. (2009) consider price as an important stimulus of consumer experience in a retailing context.

**H3.** Price perception will have a positive effect on brand experience (H3a) and brand preference (H3b).

**Appearance**

Appearance is a nonproduct-related attribute (Keller, 1993); it is hedonic (Chitturi, Raghunathan, & Mahajan, 2008; Lee, Ha, & Widdows, 2011) or symbolic (Creusen &
Schoormans, 2005). Value is derived from consumer beliefs on the brand’s aesthetic appeal. This reflects the beauty of the brand design and sensory attributes (Reimann et al., 2010; Sheng & Teo, 2012; Veryzer, 1993). Brand appearance is a source of pleasure (Decker & Trusov, 2010; Petruzzellis, 2010; Schoenfelder & Harris, 2004; Veryzer & Hutchinson, 1998) and a significant differentiating attribute that enhances consumer preferences (Reimann et al., 2010). Consumer senses are enhanced by the brand design qualities, such as colour, shape, and proportions; thus, creating positive feelings (Hulten, 2011; Lee et al., 2011; Schmitt, 1999). The aesthetic aspects are considered among the brand stimuli that sustain consumers’ experience of the brand (Brakus et al., 2009; Holbrook & Hirschman, 1982). The brand aesthetic enhances consumer senses (Hulten, 2011; Schmitt, 1999), and affects their experiential responses (Gentile et al., 2007). In this respect, Pine and Gilmore (1998) suggest that the most powerful themes that create and deliver memorable experiences are those related to consumer senses. Research findings support the notion that the consumer’s perception of the brand appearance or aesthetic is associated with his/her experiences (Sheng & Teo, 2012).

**H4.** Appearance perceptions will have a positive effect on brand experience (H4a) and brand preference (H4b).

**Brand personality**

Brand personality is a symbolic and emotional (non-product-related) attribute (Keller, 1993), defined by Aaker (1997) as a set of human characteristics assigned to a brand. This definition has been perceived as a loose statement; it is too general and includes demographic and personality traits; therefore, it affects the construct validity (Azoulay & Kapferer, 2003; Bosnjak, Bochmann, & Hufschmidt, 2007; Geuens, Weijters, & De Wulf, 2009). Therefore, this research adopts the definition by Geuens et al. (2009) that specifies the personality traits descriptive of a brand. Practitioners perceive brand personality as an efficient differentiating tool that can enhance consumer preferences (Aaker, 1997; Heding, Knudtzen, & Bjerre, 2009). Brand personality appeal acts as an emphasis to salient brand attributes, and is used as a heuristic, self-expressive cue by consumers (Wang & Yang, 2008). It is an important component in the brand identity prism (Kapferer, 2008), which presents a non-verbal cue that triggers consumer experiential responses (Brakus et al., 2009). The personality characteristics of and sensory impressions about the brand stored by consumers affect their experiences (Sung & Kim, 2010) and emotional responses (Aaker, 1997; Biel, 1992; Phau & Lau, 2000). Brand personality provides the consumer with better comprehension about the brand image because it is transformed into an experiential manifestation (Clatworthy, 2012). Therefore, brand personality can affect consumer attitudes (Folse, Netemeyer, & Burton, 2012), brand affect (Sung & Kim, 2010), brand preferences and create long-term behavioural responses such as loyalty (Folse et al., 2012).

**H5.** Brand personality will have a positive effect on brand experience (H5a), brand preference (H5b) and repurchase intention (H5c).
Self-congruity
Self-congruity refers to the degree of congruence between the brand image and the consumer’s image (Sirgy, Lee, Johar, & Tidwell, 2008). Therefore, the self-congruity reflects the degree of match (Sirgy, 1982; Sirgy et al., 1997). By referring to the self-congruity theory, it proposes that consumer behaviour is affected by the degree to which he/she perceives that his/her self-concept matches the product-user image (Sirgy et al., 1997). It reflects a brand’s symbolic benefits that affect consumer preferences, purchase intentions and loyalty (Belk, 1988; Grimm, 2005; Kressmann et al., 2006; Sirgy et al., 1997). Accordingly, consumer preference for a brand increases with higher congruence between his/her self-image and brand-user image (Sirgy et al., 1997). Research findings demonstrate that self-congruity is an important driver of consumer brand preferences (Jamal & Al-Marri, 2007; Jamal & Goode, 2001; Kressmann et al., 2006).

H6. Self-congruity will have a positive effect on brand preference (H6a), and repurchase intention (H6b).

Preference-repurchase intention model
Figure 1 presents a preference-repurchase intention model. In this model, brand preference drivers are defined by consumer brand knowledge and brand experience. The five factors that define brand knowledge are attribute perception, price perception, appearance perception, brand personality and self-congruity. The model outcome is
brand repurchase intention. The repurchase intention reflects the consumer's intention of repeating the behavioural action of buying the brand (Hellier, Geursen, Carr, & Rickard, 2003). Theoretically, consumer preference is a direct antecedent of his/her intentions (Bagozzi, 1982). Hellier et al. (2003) demonstrate that brand preferences reflect a learned disposition for perceived alternatives is strongly related to repurchase intention.

**H7.** Brand preference will have a direct positive effect on brand repurchase intention.

**Research methodology**

**Data collection**

This research investigates brands of mobile phones, an advanced technological product. Mobile phones are now a global phenomenon and the number of subscribers increases daily. The data was collected from Egyptian mobile phone users after obtaining the ethical approval from the Brunel Business School Research Ethical Committee. Egypt is experiencing an increase in mobile phone subscribers, exceeding those of fixed phones. At the end of 2011, the number of mobile subscribers was 76.4 million, an increase of 29.6% over the previous year (CAPMAS, 2011). The study followed the Churchill paradigm for developing measures (Churchill, 1979). The questionnaire was developed following a multi-stage process. The initial pool of items was generated from the literature review and focus groups. Focus groups were used at the exploratory stage of this study, in order to explore consumers’ behaviours, experiences and preferences towards brands. This aided model refinement through the identification of major determinants and outcomes of consumer brand preferences. In addition, focus groups are an effective method at the stage of item generation (Churchill, 1979), both to identify key themes and items, and to gain familiarity with the respondents’ vocabulary (Saunders, Lewis, & Thornhill, 2012). Therefore, the focus groups helped with the identification of brand experience dimensions, brand personality using the ‘Big Five’, and the salient attributes/benefits consumers assigned to the studied product within the research context.

Semi-structured questions were posed (e.g. describe your experiences with brands of mobile phones). There were four focus groups, each consisting of eight participants, and the average session time ranged from 60 to 90 minutes. Through the focus groups, the authors were able to identify key themes and items, and become familiar with consumer vocabulary. The items were evaluated using a panel of expert academics and non-experts to assess the content and face validity. This panel judged the quality of the survey in terms of the wording, structure, content and presentation. The questionnaire was then translated into the Arabic language using direct translation, which is considered to be an easy and fast method (Usunier, 1998). A pre-test of the translated questionnaire was conducted using a convenience sample of 53 respondents. The reliability of the items was evaluated using inter-item correlation, item-to-total correlation and Cronbach’s alpha.
 Accordingly, the item is subject to deletion if it does not meet the cut-off point of 0.3 for both the inter-item correlation and item-to-total correlation (Field, 2005; Pallant, 2010), or the value of alpha goes below the specified level of 0.7, or if its deletion will increase the value of alpha (Hair, Black, Babin, & Anderson, 2010).

Primary data for the main survey was collected using self-administered questionnaires. The study depended on convenience sampling, a frequently used non-probability sampling method (Hair, Babin, Money, & Samouel, 2003). The target respondents were approached in shopping malls located in Cairo over a one-month period beginning on the 1st of September 2011. A total number of 325 valid responses were obtained. The sample included 215 males and 110 females of different ages, with a sample mean of 30.7 years of age. The majority of the respondents had bachelor’s degrees and were married, constituting 68.6% and 56.3% of the sample respectively. The ratio of employed to unemployed respondents was 2.5:1. All of the variables were measured on the five-point Likert scale, which is deemed to be clearer in appearance and easier to handle than the seven-point scale (Malhotra & Birks, 2003). Different response anchors were used, and ranged from (1) strongly disagree to (5) strongly agree, for all constructs except for the response anchors for the brand personality construct which were anchored with ‘not at all descriptive’ and ‘very descriptive’.

**Measures development**

Only reliable items were included in the final questionnaire used to collect data in the main survey. The attribute perceptions construct was measured by the respondents’ evaluation of 11 items (physical characteristics, Interfaces (3G, GPRS, Wi Fi), memory capacity, functionality, ease of use, durability, country of origin, language adaptability, memory capacity, multi-media features and fun features). These items represent the attributes of the products specified by the participants in the focus groups sessions (Grimm, 2005; Kressmann et al., 2006). To measure the attribute perception respondents were asked to state to what extent they perceive that each attribute is associated with their current brand. Price perception was measured by three items adapted from Duarte and Raposo (2010), Park et al. (2012), Petruzzellis (2010) and Zeithaml (1988). To measure appearance perception, the study used three items from Lee et al. (2011) and Petruzzellis (2010).

Brand personality is commonly measured by Aaker’s (1997) developed scale. This scale is based on Aaker’s definition of brand personality as ‘the set of human characteristics associated with a brand’ (Aaker, 1997, p. 347). Aaker (1997) defines five dimensions of brand personality. These dimensions: sincerity, excitement, competence, sophistication and ruggedness, are used to measure brand personality. Each of these dimensions is described by a group of personality traits. For example, the sincerity dimension reflects the meaning of honesty and modesty (Lunardo, Gergaud, & Livat, 2015) and is defined by four traits; they are; down-to-earth, honest, wholesome and cheerful (Aaker, 1997). This definition is too wide, and includes other facets in the brand identity prism other than brand personality, which can be considered as human characteristics, such as, the inner values of the consumer and the physical traits of the typical user. Although Aaker (1997)
focussed on the personality traits associated with a brand, this loose definition causes problems with the construct validity of the concept, and consequently its dimensions, that do not cover personality traits (Geuens et al., 2009). Therefore, the factor structure of this model could not be generalised at the brand level (Austin, Siguaw, & Mattila, 2003) and could not be replicated cross-culturally (Azoulay & Kapferer, 2003; Geuens et al., 2009). This article adopted a stricter definition, proposed by Azoulay and Kapferer (2003, p. 151), which describes brand personality as ‘the set of human personality traits that are both applicable and relevant for brands’. Thereafter, recent studies uncovering brand personality have relied on this definition since it is more rigorous and can be used cross-culturally without confusion (e.g. Bosnjak et al., 2007; Geuens et al., 2009; Milas & Mlačić, 2007).

Therefore, a new scale is needed based on a rigorous definition excluding all non-personality items. Personality traits describe the internal characteristics of human beings from which their behaviour in different situations can be predicted and explained (Heding et al., 2009, p. 122). Applicability of the big-five traits to describe brand personality has been proven in several studies (e.g. Bosnjak et al., 2007; Caprara, Barbaranelli, & Guido, 2001; Geuens et al., 2009; Huang, Mitchell, & Rosenaum-Elliott, 2012; Lin, 2010; Sweeney & Brandon, 2006). Goldberg (1990) developed the big-five factors (agreeableness, extraversion, conscientiousness, emotional stability and openness to experience) to describe human personality. A group of human personality traits is used to define each factor. The extroversion factor is defined by eight traits (active, energetic, bold, strong, happy, resolute, competitive and dominant). Through focus group discussions, applicable and relevant personality traits for the brands were elicited. For example, only six traits (active, energetic, bold, strong, happy and competitive) were approved to describe the extroversion factor. Participants among the four focus groups agreed that only these human personality traits can be used to describe a brand of mobile phones. Consequently, the evaluation of items used to define each factor resulted in 27 descriptive traits for brands.

Self-congruity was assessed by the three items developed by Sirgy et al. (1997). Participants in focus groups described their experiences with brands using five dimensions. These dimensions are similar to those identified by Schmitt (1999); namely: sensorial, emotional, intellectual, behavioural and social. Therefore, items generated from the qualitative sessions, and the items developed by Brakus et al. (2009) and Chang and Chieng (2006) were used to measure brand experience. The five dimensions of brand experience were measured by 25 items. Brand preference was measured by six items adapted from different sources, namely, ‘I like this brand more than any other brand of mobile phone’, ‘This brand is my preferred brand over any other brand of mobile phone’, ‘I would use this brand more than any other brand of mobile phone’ (Jamal & Al-Marri, 2007; Sirgy et al., 1997), ‘When it comes to making a purchase, this brand of mobile phone is my first preference’ (Overby & Lee, 2006), ‘This brand meets my requirements of mobile phone better than other brands’ and ‘I am interested in trying other mobile phones from other brands’ (Hellier et al., 2003). Finally, repurchase intention was measured by three items developed by Hellier et al. (2003).
Analysis and discussion of results

Item reduction and uni-dimensionality

Exploratory factor analysis (EFA) was used with principal component analysis (PCA) and VARIMAX orthogonal rotation for item reduction. The items with low commonality of less than 0.5 or loads on two or more factors with values exceeding 0.4 were candidates for deletion (Field, 2005). The results show the load of items on seven factors, which account for 69.8% of the total variance. These factors represent brand preference, price perception, appearance perception, self-congruity and repurchase intentions, but the items measuring attributes perception were loaded onto two factors. Therefore, the first factor represents the general attributes of the brand, while the second factor refers to the brand’s functional benefits.

The test of uni-dimensionality refers to the loading of the measurement variables on a single factor (Hair et al., 2010). In order to include the multi-dimensional constructs (i.e. brand experience and brand personality) in the proposed model, a summated scale was formed (e.g. Brakus et al., 2009; Kim, Magnini, & Singal, 2011). Accordingly, the summated scale was measured by the average of the items loading together as one factor. By conducting EFA, the brand experiences items loaded onto four factors describing the sensorial, emotional, intellectual and behavioural experiences as shown in Appendix 1, and similarly, the items of brand personality loaded onto four factors describing different personality types of the brand. The first factor was peacefulness, which combined the traits of agreeable and extrovert personality types (Aaker, 2000; Aaker, Benet-Martinez, & Garolera, 2001), as shown in Appendix 2. The three other factors describe the conscientiousness, emotional stability and openness to experience personality types. These multi-dimensional constructs are presented in the model at the aggregate level. These dimensions will be reflected as measuring items of each construct; therefore, a test of uni-dimensionality was required (Hair et al., 2010). The four dimensions of brand experience and brand personality loaded as one factor with a total variance of 67.1% and 70.5%, respectively.

Measurement model assessment

The validity of the measurement model was assessed using confirmatory factor analysis (CFA), maximum likelihood estimation technique and AMOS (v.18) software. The first run of the measurement model had an acceptable fit. However, the results indicated the possibility of obtaining higher fit indices through the purification process. The respecified measurement model had an acceptable fit with chi-square being 523.60 and 314 degrees of freedom, at a significant level of $p < 0.005$. The other fit indices were within the acceptable range ($\chi^2/df = 1.6$, GFI = 0.90, AGFI = 0.88, IFI = 0.95, CFI = 0.95, RMSEA = 0.045 and SRMR = 0.048). The results indicated that all of the standardised loadings were above 0.5, with the lowest value equalling 0.58. The composite reliability of constructs was above the threshold of 0.7 (Hair et al., 2010), indicating a good reliability, as shown in Table 1. Discriminant validity was assessed by comparing the average value extracted with squared correlation estimate. The results are depicted in Table 2, showing higher values of AVE than squared correlation. Thus, the results suggest acceptable discriminant validity.
Assessment of common method variance

The common method variance (CMV) is ‘attributable to the measurement method rather than to the constructs the measures represent’ (Podsakoff, MacKenzie, Lee, & Podsakoff, 2003, p. 879). It implies that ‘covariance among measured items is driven by the fact that
some or all of the responses are collected with the same type of scale’ (Hair, Black, Babin, Anderson, & Tatham, 2006, p. 833). Method biasedness is a crucial problem that represents an important source of measurement error. Therefore, several procedures were used to reduce method biases, such as assuring the respondents that there were no right or wrong answers, and to answer honestly based on their opinions. In addition, the questions were designed in a simple way, lacking ambiguity or double-barrelled and confusing questions. To assess the potential of such a problem among the measured variables used in the study, Harman’s single-factor test was used. Accordingly, using PCA and an unrotated factor solution all of the variables were loaded. The basic assumption of this technique is that if a single factor accounts for more than 50% of the covariation, then the results indicate the existence of a method bias problem (Podsakoff et al., 2003). Based on CMV analysis, the variables used in this study are not constrained by CMV; thus, there was no concern.

### Hypotheses testing

For the hypotheses testing, SEM approach was used using AMOS software. The model yielded adequate fit with chi-square at 531.4 and 319 degrees of freedom, significant at the level of *p < 0.005*. The other fit indices were within the acceptable range (%chi2/df = 1.6, GFI = 0.90, AGFI = 0.86, IFI = 0.95, CFI = 0.94, RMSEA = 0.045 and SRMR = 0.049). Diagnosing the path estimates using critical *t*-value tested the hypotheses. Of the 13 hypotheses, only 10 were supported while 3 were rejected. **Table 3** summarises the results of the hypotheses testing. The results reveal partial support of H1, confirming the significant, positive impact of brand experience on brand preference but not on repurchase intention. The results provide evidence that brand experience generates evaluations and judgements towards a brand and that it is a source of preference as postulated by Brakus et al. (2009) and Gentile et al. (2007). The idea that consumers learn from their experiential responses induced either directly or indirectly is also supported (Daugherty, Li, & Biocca, 2008). These responses gleaned during experiencing of the brand are stored in the consumer’s memory, providing an informational base for evaluating the brand (Goode et al., 2010). On the other hand,

<table>
<thead>
<tr>
<th>Hypotheses</th>
<th>Standardised path estimate</th>
<th>Critical value</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1a: EXP → PRF</td>
<td>0.450</td>
<td>4.726</td>
<td>0.001</td>
</tr>
<tr>
<td>H1b: EXP → RPI</td>
<td>0.096</td>
<td>0.850</td>
<td>0.395</td>
</tr>
<tr>
<td>H2a: ATT1 → EXP</td>
<td>0.320</td>
<td>4.013</td>
<td>0.001</td>
</tr>
<tr>
<td>H2b: ATT2 → EXP</td>
<td>0.014</td>
<td>0.182</td>
<td>0.855</td>
</tr>
<tr>
<td>H3a: PR → EXP</td>
<td>-0.112</td>
<td>-2.042</td>
<td>0.041</td>
</tr>
<tr>
<td>H3b: PR → PRF</td>
<td>0.128</td>
<td>2.638</td>
<td>0.008</td>
</tr>
<tr>
<td>H4a: APP → EXP</td>
<td>0.130</td>
<td>2.104</td>
<td>0.035</td>
</tr>
<tr>
<td>H4b: APP → PRF</td>
<td>0.147</td>
<td>2.320</td>
<td>0.020</td>
</tr>
<tr>
<td>H5a: BP → EXP</td>
<td>0.398</td>
<td>4.714</td>
<td>0.001</td>
</tr>
<tr>
<td>H5b: BP → PRF</td>
<td>0.006</td>
<td>0.066</td>
<td>0.889</td>
</tr>
<tr>
<td>H5c: BP → RPI</td>
<td>0.176</td>
<td>1.808</td>
<td>0.071</td>
</tr>
<tr>
<td>H6a: CON → PRF</td>
<td>0.110</td>
<td>2.062</td>
<td>0.039</td>
</tr>
<tr>
<td>H6b: CON → RPI</td>
<td>0.296</td>
<td>2.298</td>
<td>0.022</td>
</tr>
<tr>
<td>H7: PRF → RPI</td>
<td>0.245</td>
<td>2.280</td>
<td>0.023</td>
</tr>
</tbody>
</table>
the repurchase intention refers to consumers’ decision about repeating the action of purchasing the brand. The insignificant impact of brand experience on repurchase intention suggests that consumers have to evaluate their experiences to achieve a behavioural consequence. However, the indirect impact of consumer experiences on repurchase intention has been supported by Rose et al. (2011) in an online context through satisfaction and loyalty (Iglesias, Singh, & Batista-Foguet, 2011). The second hypothesis postulated the significant impact of attribute perceptions on brand experiences and brand preferences. According to the results, consumers’ attribute perceptions were divided into two constructs, namely: brand general attributes and functional benefits. The results support the brand general attributes construct as being positively and significantly related to brand experience. This finding is consistent with Sheng and Teo (2012), demonstrating the significant impact of product attributes on consumer brand experiences. However, the functional benefits were not related to consumer brand experiences, showing consistency with the study by Lee et al. (2011), which revealed that users’ perception of the utilitarian benefits of technological products is not related to consumer emotional responses. The results yield strong support for the impact of both the general attributes of a brand and the functional benefits on brand preferences; therefore, the results show partial support of H2. The data does not support the positive influence of price perception on brand experience (H3a). This means that consumer responses to price perception, the fairness of the monetary value or as an indicator of quality, do not create positive experiences with the brand. Ward, Light, and Goldstine (1999) suggest that consumers have misconceptions about the price of technological products. However, price significantly and positively influenced consumer brand preferences, in support of H3b, and showed consistency with Alamro and Rowley’s (2011) study findings. The data supports H4, confirming the significant, positive impact of appearance perception on both brand experience and brand preference. This finding is consistent with the majority of studies (e.g. Chitturi et al., 2008; Lee et al., 2011), demonstrating that the hedonic attributes of a brand, including appearance or aesthetic design, contributes to consumers’ experiential responses. Also, the visual appeal of a brand generates a positive attitude towards the brand (Lee, 2009), and enhances consumer preference (Veryzer, 1993). Brand personality had a significant impact on brand experiences (H5a), but an insignificant impact either on brand preference (H5b) or on repurchase intention (H5c). The significant positive impact of brand personality on brand experience reveals that consumer experiences reflect symbolism consumption (Addis & Holbrook, 2001). In addition, the brand’s symbolic meaning, measured by self-expression, has been proven by Lee et al. (2011) to have a significant impact on emotional experiences. In addition, the results confirmed the significant impact of self-congruity on brand preferences and repurchase intention; thus, supporting H6. In this study, the symbolic aspects of a brand are denoted by brand personality and self-congruity. The results supported the significant, positive impact of self-congruity on brand preference and repurchase intention, which is analogous with the majority of empirical studies (Erickson, 1997; Jamal & Al-Marri, 2007; Sirgy et al., 1997). Surprisingly, the results did not confirm the brand personality relationship with either brand preference or repurchase intention. Rather, the findings revealed that the five factors of brand knowledge; attribute perceptions, price, appearance, self-congruity and brand
experience, significantly influence brand preference. These factors explain 62.5% of the variance in brand preference. As expected, there was a direct, positive relationship between brand preference and repurchase intention (H7). Brand preference explained 19.1% of the variance in repurchase intention.

**Testing mediation**

The model identified both brand experience and brand preference as mediators. The role of the mediators was examined following Baron and Kenny (1986) and Hair et al. (2010). The results reveal a direct significant impact of the brand general attributes (ATT1), appearance (APP), on both brand experience and brand preference. In addition, brand personality has a direct significant impact on brand experience, and an insignificant impact on brand preference. However, in the absence of brand experience, a significant relationship between brand personality and brand preference was confirmed. The test of mediation supported the assertion that the relationships between brand general attributes and appearance, and brand preference are partially mediated by brand experience. In addition, brand experience fully mediates the relationship between brand personality and brand preference. The results also confirm full mediation of brand preference on the relationship between brand experience and repurchase intention. The significance of indirect paths via mediators was examined using Sobel’s (1982) test. The results of the Sobel test support the significance of indirect paths, as shown in Table 4.

**Discussion**

The results of the hypotheses testing provide various insights to consumer preferences for brand with regard to the product type, mobile phones and the context, mobile phone users in Egypt, where the study was conducted. Through these insights optimal answers to the research questions have been reached. First, the study demonstrated that consumer perceptions on different brand meanings build their brand preferences. The slight differences between the impact of attribute and non-attribute associations indicate that these factors are at the same level of importance in shaping consumer preferences. Second, most prior studies focus on the impact of experience referring to the accumulated knowledge (e.g. Heilman, Bowman, & Wright, 2000) or the usage impact on changing consumers perception on the weight or importance of brand attributes or benefits (Hamilton & Thompson, 2007). However, the results provide evidence that brand experience reflecting consumer responses to various brand stimuli and the acquired knowledge can be a source of preference, and generate

<table>
<thead>
<tr>
<th>Direct path</th>
<th>Direct effect</th>
<th>Significance</th>
<th>Indirect path via mediator</th>
<th>Indirect effect</th>
<th>Significance</th>
<th>Total effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATT → PRF</td>
<td>0.19</td>
<td>0.019</td>
<td>ATT → EXP → PRF</td>
<td>0.14</td>
<td>0.042</td>
<td>0.34</td>
</tr>
<tr>
<td>APP → PRF</td>
<td>0.15</td>
<td>0.020</td>
<td>APP → EXP → PRF</td>
<td>0.06</td>
<td>0.033</td>
<td>0.21</td>
</tr>
<tr>
<td>BP → PRF</td>
<td>0.012</td>
<td>0.889</td>
<td>BP → EXP → PRF</td>
<td>0.18</td>
<td>0.044</td>
<td>0.18</td>
</tr>
<tr>
<td>EXP → RPI</td>
<td>0.19</td>
<td>0.006</td>
<td>EXP → PRF → RPI</td>
<td>0.13</td>
<td>0.036</td>
<td>0.13</td>
</tr>
</tbody>
</table>
evaluations or judgements towards a brand. These responses are induced regardless to the type or level of experiences (Brakus et al., 2009; Daugherty, Li, & Biocca, 2008; Gupta & Vajic, 1999; Meyer & Schwager, 2007), ensuring the delivery of the brand value to consumers (Gentile et al., 2007; Sheng & Teo, 2012). The results were also consistent with Hoeffer and Ariely (1999), thus emphasising that consumer experience is the foundation of preferences. Third, the results show support for the significance of the link between the disposition of the consumer to favour certain brand and his/her willingness to buy that brand again. This result extends the role of preferences from motivating the consumer intentions to the repetition of the act. In addition, the study findings of the mediating role of brand preference to the relationship between the brand experience and the repurchase intentions add new insights: first, it suggests that consumer decisions to repurchase the brand and repeat their experiences will not occur unless it results in favourable predispositions towards a certain brand among the alternatives. Thus, brand preferences stand as an evaluation of consumer experiences, with the brand interpreting his/her desire to repeat the experiences and repurchase the brand. Second, based on the results, the indication of preferences can be considered as a linkage between the informational processing and the psychological and experiential responses on the one hand, and the consumers’ willingness and volition on the other hand. Third, the positive impact of preferences on future acts might be an indication of consumer intentions for consistent preferences.

Study implications

A number of theoretical and managerial insights can be drawn from the model which will be discussed in detail in the following sections.

Theoretical implications

The present research contributes to existing marketing and branding literature in five ways: First, the research fills the gap in the extant literature by building a model which provides an understanding of consumer brand preferences and future purchase intentions. The model addresses consumer brand preferences using a balanced position between consumer rationality and irrationality. Unlike the traditional model, which focuses on brand utilitarian beliefs as the main drivers of brand preferences, this model combines the objective and subjective meanings of brand and holistic consumer experience. Therefore, the research contributes to the theory by supporting the importance of integrating consumers’ experiential responses into cognitive information processing in developing their preferences, which link to future psychological responses. Second, the model expands the dominant role of experience and includes it as a direct source of brand preference. The holistic nature of consumer experience emphasises other non-cognitive responses in building consumer preference such as emotional responses, investigated in prior studies (Allen et al., 2005; Grimm, 2005). These experiences play a significant role in delivering perceptual values created from the brand attributes. Therefore, the model implies the important role that brand experience plays in transferring the inherent values of brand attributes to brand preferences. The insignificance of a direct relationship between brand experience and
repurchase intention points to a phenomenon that brand preference can act as an evaluation of consumer experience. Therefore, consumers, having the intention to repurchase the brand, reflect on their desire to repeat the experience. Third, the findings enhance the understanding of consumer cognitive information processing in preference development. It indicates that functional, utilitarian attributes are not the focal interest of a consumer trade-off between multiple brand alternatives. The economic factor presented by price plays a significant role. Other symbolic and aesthetic associations are important in developing a biased predisposition by the consumer towards certain brands. Fourth, the study differentiates between the impact of brand imagery associations addressed by brand personality and self-congruity. A key finding concerns the role of brand personality; the extant literature supports the significant direct impact of brand personality on brand preference (e.g. Aaker, 1997). However, the findings did not support the direct impact of brand personality on brand preference, except indirectly through brand experience. This indicates the importance of experiencing the brand in order to transfer the brand personality to symbolic meanings, and thus to enhance consumer preference. Therefore, the direct impact of brand imagery associations on brand preference is reflected by the self-congruity theory. Finally, an important methodological implication is the utilisation of the ‘big five’ personality traits to measure brand personality, in addition to the use of the aggregate level to measure their impact on brand preference. The study addresses consumer brand preferences in a different geographical area than the majority of the studies that focus on America or European countries. This provides an understanding of cultural conditioning on consumer brand preferences and behavioural responses.

**Practical implications**

One of the primary goals of practitioners is to build strong brands that are able to influence consumer preference and stimulate future purchasing decisions. This study has implications for practitioners wishing to build consumer preference for brands of technological products, based on brand meanings and delivered experiences. The study suggests three levels for building high-tech brands. The first level represents the brand attribute cognition related to its functional attributes and benefits. The second level is positioning the brand in consumers’ minds using its aesthetic attributes and symbolic associations. At the third level are the brand experiences, where companies build their competitive advantage. At this level managerial attention should be drawn to the importance of brand experience subjective aspects. In order to build strong brand and position it is important for managers to recognise the strategic significance of both sensorial and emotional experiences. Price is important in developing consumer preferences. However, the impact that price can have on consumer preferences and experiences provides important insights about the pricing strategies of advanced technological products. Consumers differentiating between brands give weight to the price and prefer the alternative at a reasonable price offering good value for money. However, price still reflects consumers’ monetary sacrifice to experience the brand. Therefore, it is suggested that managers need to develop pricing strategies that stimulate consumer irrationality by reflecting the experiential value in the price to reduce consumer consciousness about low prices. The study offers insights by
uncovering consumers’ differential desirability to the different elements of brand knowledge. Consumers weigh the brand knowledge elements differently. The study reveals the importance of functional attributes/benefits related to brand performance rather than unrelated attributes on building consumer preferences. Moreover, brand experience is revealed to be a significant direct antecedent of brand preference in addition to its mediating role. These insights are important for technological product design in the mobile phone domain. The study suggests that it is the balance between the functional, hedonic and symbolic attributes of mobile phones that enhance consumer preferences by shaping their brand experiences. The differentiation between the discrete impact of symbolic associations explicated by brand personality and self-congruity reveal important insights on positioning brands. It is important to reflect on the brand personality appeal, the superiority of the personality type and the novelty of attributes of the brand via its personality or symbolic meaning and in addition, through experienced managers, can build consistent consumer predisposition towards the brand. This biased position provides the link between brand experience and repeat purchasing behaviour. Accordingly, brand experience is an important long-term strategic tool for managers used to build long-standing preference, thus influencing the behavioural tendencies into actual repeating behaviour.

Conclusions

This study attempts to understand consumer brand preferences from the experiential viewpoint. The research goes beyond the notion of experience used in prior preference studies; examining its impact on the relationship between the attributes and preferences. These studies focus on the impact of experience level or type changing consumer’s preference level. The research considers experience reflected by consumer responses resulting from interactions with the brand. It then focuses on the subconscious private experiences stored in the consumer’s memory, reflecting the holistic responses to the brand stimuli as a source of developing brand preference. This extension of experience meaning contributes to the research significance in several ways. The brand experiences include the subjective, internal and behavioural responses evoked by consumers interacting with the brand. This holistic nature of experience offers insight into the importance of responses other than only the emotional experiences investigated in prior studies. In addition, the value embedded in brand offerings is delivered by, and linked to, consumer experiences towards brands that build consumer predispositions. Yet, this does not imply that consumers neglect brand functional attributes and benefits. The article proposes that gaining consumer preferences require delivering an adequate balance of the brand meanings. Moreover, differences are clarified in the overlapping terms reflecting symbolic brand associations. The research implies that the symbolic effect of the brand on preference is exerted through its power to reflect or express the favourable identity of the consumer. Consumers perceive this impact either by matching or experiencing the brand, not by describing the brand using human traits. It suggests the importance of experiencing the brand in order to transfer the inherent value of brand attributes into brand preferences. In the context of technological products, the role of brand personality in shaping
consumers’ brand experience is emphasised. Thus, it draws an important insight into how consumers perceive the symbolic value of humanising the brand.

The findings of this study would enable managers to develop an experiential branding strategy; position, build and conceive the brand in consumers’ minds, hence, aligning the brand experience. This strategy will allow companies to build the brand meaning in consumers’ minds, determine the appropriate pricing strategy, position the brand, specify its image and target the marketing segment. Subsequently, companies will be able to engage the experiential marketing by building consumer experience and creating experiential values for the brand.

Limitations and proposed future research

This study is not without limitations; the proposed and validated model of the current research depends on the consumer–brand relationship. Therefore, the focus is on brand signals, defined by consumer perceptions and experiences relative to the brand inputs shaping his/her preferences and future purchasing decisions. Other factors representing the relationship between consumers and a company, such as corporate credibility, should be considered in the future.

The study did not investigate the impact of consumer demographics, therefore a proposed direction for future research is to uncover the role of individual differences affecting their perceptions and experiential responses in developing brand preferences. Other limitations are related to the research design; the study was reliant on convenience sampling, a non-probability sampling technique. The main constraint with this lies in its limited ability to assure the legitimacy of generalising the research results to the population, although the relatively large sample size and the demographic representativeness of the sample allow the assessment of external validity, to an extent. Moreover, the study findings are limited to a single geographical area. Therefore, it is recommended for future work to test the model in different developing countries using larger populations. The study addresses one type of technological product namely the mobile phone; therefore, future studies could address other types of technological products such as laptops, tablets and digital TVs to support the study findings.

Disclosure statement

No potential conflict of interest was reported by the authors.

Notes on contributors

Dr Ebrahim is a lecturer in the Business Administration department at Tanta University, Egypt. She received her PhD from Brunel University London. Her research interests include branding management, social media marketing, and consumer behavior.

Dr Ahmad Ghoneim is the Director of Undergraduate Studies at Brunel Business School. He got his PhD in Information Systems Evaluation with a focus on the indirect costs associated with developing information technology infrastructures. Dr Ghoneim delivered Micro-MBA workshops for the Cabinet office and the HM-Treasury on leveraging Social Media. He is a Certified BOSS and Markstrat Simulation Instructor. He is a certified Academic Programme Developer and championed...
and evaluates undergraduate and postgraduate programmes. He is also serving as a Director and member of the board of Trustees of Right Start Foundation International (RSFI) a multi-million pounds UK-based Charity. He has worked on a number of research grants for the UK Higher Education Academy on Enhancing the alignment of programme level accreditation, and the Qatar QNRF on Life Long Learning, Enhancing Graduate Attributes and Continuous Professional Development. He is a member of the Information Systems Evaluation and Integration Group (ISEing) which is a research centre of excellence that supports a number of Engineering and Physical Sciences Research Council (EPSRC) funded networks and projects. Dr. Ghoneim publishes his work in well acclaimed journals such as the European Journal of Operational Research as well as in international conferences. He is on the editorial team of a number of journals and co-edited a special issue for the European Journal of Information Systems and International Journal of Cases in E-commerce. He is the Chair of the well acclaimed grade (B) European Mediterranean and Middle Eastern Conference on Information Systems (EMCIS) as well as the Programme Chair of the eGov/tGov workshops. His research interests include ICT adoption and evaluation in public and private sectors, Digital Marketing, Web 2.0, CRM, and Knowledge management.

Zahir Irani is a Professor of Sustainable Business Operations in the Brunel Business School and the Founding Dean of the College for Business, Arts and Social Sciences (CBASS) at Brunel University London. Prior to setting up CBASS, he was seconded to work in Whitehall, where he was a Senior Policy Advisor at the Cabinet Office. He has held numerous senior roles at Brunel, including the Head of the Brunel Business School which he joined in 2006 and where in 2013 it was awarded Business School of Year under his leadership. He has also been the Head of the Department of Information Systems and Computing (now, Department of Computer Science) at Brunel University London. He completed a BEng (Hons) at Salford University before then accepting a research position in industry where he completed a Masters. He has a PhD in the area of investment evaluation and undertook his leadership development at the Harvard Business School. Zahir’s research interests are multidisciplinary in nature and grounded in scientific principles, and developed from early work on the area of evaluating investments in manufacturing information systems onto make normative contributions in the area of Transformational Government before more recent work in Food Security. He has received significant levels of funding from across the world as Principal Investigator, including from the UK Research Councils (EPSRC, ESRC), European Commission, Qatar Foundation, Australian Research Council, HEA and QinetiQ. He also publishes in leading scholarly journals and has a H-index of 60 that places Zahir Irani amongst the most cited scholars. He also manages to find time to write press and thought leadership pieces on higher education and graduate employability that have appeared in The Guardian, The Independent, The Wall Street Journal, Financial Times (FT), Thomson Reuters, University Business, Research Foresight and Times Higher Education (THE). Under his leadership, Brunel Business School received the 2013/14 Times Higher Award - Business School of the Year.

Dr Ying Fan is an associate lecturer at Queen Mary University of London. With more than 30 years in academia, Dr Fan has taught at 10 institutions in the UK and abroad, at all levels in the subjects of marketing and strategy. He has supervised over 280 master students and 11 doctoral students. Dr Fan has a wide range of experience in curriculum and programme development, plus a strong track record in transnational education and international partnerships. Author of over 90 publications, Dr Fan is internationally recognised for his work on nation branding and Chinese cultural values. Dr Fan also has extensive experience as guest speaker, expert reviewer and external examiner.

References


### Appendix 1. EFA of brand experience

<table>
<thead>
<tr>
<th>Component</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXT01 I engage in a lot of thinking when I encounter this brand</td>
<td>.808</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXT02 I am thinking what the new model of this brand will look like</td>
<td>.763</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXT03 This brand provides solution to communication problems</td>
<td>.751</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXT05 This brand is more than a mobile phone</td>
<td>.711</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXT04 I am always up-to-date with this brand</td>
<td>.675</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXB04 This brand gets me to think about my behaviour</td>
<td></td>
<td>.883</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXB05 This brand is part of my daily life</td>
<td></td>
<td>.853</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXB03 This brand tries to remind me of activities I can do</td>
<td></td>
<td>.732</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXB06 This brand fits my way of life</td>
<td></td>
<td>.546</td>
<td></td>
<td></td>
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<tr>
<td>EXE06 This brand tries to put me in a certain mood</td>
<td></td>
<td></td>
<td>.830</td>
<td></td>
</tr>
<tr>
<td>EXE01 This brand is an emotional brand</td>
<td></td>
<td></td>
<td>.805</td>
<td></td>
</tr>
<tr>
<td>EXE05 I am pleased with this brand</td>
<td></td>
<td></td>
<td>.700</td>
<td></td>
</tr>
<tr>
<td>EXE02 There is an emotional bond between me and this brand</td>
<td></td>
<td></td>
<td>.594</td>
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</tr>
<tr>
<td>EXS02 This brand excite my senses</td>
<td></td>
<td></td>
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<td>.836</td>
</tr>
<tr>
<td>EXS01 This brand makes a strong impression on my visual sense</td>
<td></td>
<td></td>
<td></td>
<td>.781</td>
</tr>
<tr>
<td>EXS03 This brand is interesting in a sensory way</td>
<td></td>
<td></td>
<td></td>
<td>.748</td>
</tr>
</tbody>
</table>

Extraction method: Principal component analysis.
Rotation method: Varimax with Kaiser normalisation.
### Appendix 2. EFA of brand personality

<table>
<thead>
<tr>
<th>Component</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td>BP_AG05 Friendly</td>
<td>.749</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BP_AG02 Altruistic</td>
<td>.742</td>
<td></td>
<td></td>
<td></td>
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Extraction method: Principal component analysis.
Rotation method: Varimax with Kaiser normalisation.