Applying Perceptual Mapping Method for Successful Positioning Strategy

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ABSTRACT:
The paper discusses the theoretical grounds of perceptual mapping and its importance in branding. The paper explains the use of perceptual maps and demonstrates how the collected data can be transferred into visual maps. Simultaneously, it examines various methods of perceptual mapping, and illustrates advantages and disadvantages of different mapping techniques. The paper seeks to make recommendations for business about the benefits in using perceptual mapping in their brand and product positioning strategies. Perceptual mapping method as a powerful tool in marketing research is also useful for service companies.

Keywords: Perceptual Map, Positioning, Brand, Marketing Research

Introduction

The significance and use of perceptual mapping methods by managers to support decisions regarding brand positioning or repositioning is extensively recognized in the marketing literature (Rekettye & Liu, 2001; Dolan, 1990). Its importance is increasing when business is conducted in a country with transition economies.

According to the research by Rekettye & Liu (2001), the methodology and techniques of perceptual mapping are complicated and difficult to implement for company managers, who usually require fast and quick analysis. Besides, many research papers present the map without showing how it had been constructed (Rekettye & Liu, 2001). Therefore, the paper aims to show how perceptual maps are developed based on collected data. Furthermore, the paper provides an
A product’s position is the place it occupies in the mind of target customers in the competitive business environment, while positioning is a managerial activity using marketing tools to influence customers' perception and secure a sustainable place in the mind of the target audience (Schweiger & Schrattenecker, 2009; Helm, 2009; Rekettye & Liu, 2001). Consumers may evaluate the identical product differently depending on how it is branded. Perception is defined as the process by which an individual select, organizes, and interprets information inputs to create meaningful picture of the world (Kotler & Keller, 2009). Thus, Perceptual maps provide a visual picture of the positioning activity. If the company is not satisfied with the achieved location of the product it may try to relocate it (Rekettye & Liu, 2001). The aim of repositioning is to move consumers' perceptions towards a product to a new, desired location through marketing communication or promotional instruments.

Since branding is all about perception, it is not a battle of products in the market, but perceptions. For a product to exist, it must find a place in an individual consumer’s perception of the world of products and services around him/her, because a product or service does not exist independent from the consumer. This subjective perception is governed by the individual consumer’s values, beliefs, needs, experience and environment (Chadha & Kapoor, 2008). Therefore, customers are creating a brand based on their perception as they usually associate the brand name with specific attributes, particular benefits, features and characteristics in a given situation.

Furthermore, positioning is also a vital concept for a service industry as it leads to competitive advantage due to the attributes associated with service quality in the minds of customers (Dash, 2015). Consequently, growth and development of an enterprise mainly depend on satisfying and attracting customers. Perceptual mapping can visually displaying customers' perception of quality attributes of service companies, and eventually helps in setting the direction on the marketing activities by the service companies to ensure better service quality based on the standpoint of consumers (Dash, 2015).

Since perception is the image or the formalized impressions, which reside in the mind of an individual customer...
about different products, companies, or brands, so these perceptions strongly influence on buying behavior. Besides, not only self-image affects the buying decisions but also brand image. Customers tend to prefer a product or service whose images appearing consistent with their self-images. However, brand image in the mind of a customer is of utmost importance. Therefore, marketing communication takes into consideration the perception of incoming stimuli by the consumers. Perception process includes not only selecting or organizing, but also interpreting information. Consequently, different people perceive differently the same situation or events, and assign them different meanings. Yet, those meanings might change over time or by influence. Hence, perceptual mapping attempts to address perceptions of consumers in order to decide the following marketing efforts to exert influence on their minds.

Concept of Perceptual Mapping

Perceptual maps are used in marketing to visually study relations between two or more attributes. The term "perceptual map" refers to plots obtained by a series of different techniques, such as principal component analysis, (multiple) correspondence analysis, and multidimensional scaling, each needing specific requirements for producing the map and interpreting it (Gower et al., 2010). It should be noted that the relations between the points in the map needs to be interpreted clearly and explained by a researcher what a point represents. Gower et al. (2010) provide guidelines for producing perceptual maps that are useful and simple aids for both marketers and readers.

Furthermore, creating brand value to the consumers is also the most important key to an online business in order to survive the competition and make profits (Chiang et al. 2008). Establishing a strong brand plays a key role for a competitive business. In this context, brand image and brand personality are main sources of brand perception by the customers. Moreover, brand personality tends to serve as a symbolic or self-expressive function (Chiang et al. 2008). Hence, perception mapping for online brands can provide a practical view of the associations and similarities among online companies or online products for developing branding strategies. The findings of the study by Chiang et al. (2008) suggest that brand perceptions could be used with identified consumer needs and behaviors to better position online services. Additionally, perception maps can be applicable to the online brands across different markets. In addition, the researchers argued that brand perception map also contributes to a better understanding of the online brands (Chiang et al. 2008).

Perceptual mapping has been historically regarded as one of the most important analytical tools in marketing research (Chadha & Kapoor, 2008; Green et al., 1998; Steenkamp et al., 1994), and it is essentially suited for the analysis of brand equity’s sources (Chadha & Kapoor, 2008). Perceptual mapping describes the consumer’s perceptions of objects on one or a series of spatial maps, so that the relationship between the objects can be easily seen (Chadha & Kapoor, 2008). Attribute-based perceptual mapping uses different approaches such as factor analysis, correspondence analysis and discriminant analysis. These methods can identify the number of dimensions that the consumers use to distinguish the objects; determine a preferred location of an object on each of the dimensions; and provide information on the nature and characteristics of these dimensions (Chadha & Kapoor, 2008).

According to Blake et al. (2003), Perceptual Maps are widely used by market researchers to portray a brand’s image or consumer’s reactions to product features. Three types of maps are especially popular among professional researchers: (1) Perceptual maps that identify the images of brands, products, services, etc. Preference maps that estimate differences among segments or individuals in the appeal or attractiveness of brands, products, services, features; and (3) Hybrid maps which portray both images and appeal (Blake et al., 2003). Subsequently, a variety of statistical techniques can be used to generate each type of map. Perceptual maps are usually constructed via multidimensional scaling, multiple discriminant function, correspondence analysis; while Preference maps are typically developed by a form of multidimensional “unfolding”; and Hybrid maps are composed by first devising a perceptual map and then introjecting preferences as “ideal points” or as “vectors” (Blake et al., 2003).
Perceptual Mapping Method

A perceptual map visually illustrates how target customers view the competing alternatives in a Euclidean space, which represents the market (Lilien et al., 2002; Dallakyan, 2014). It is constructed by the data reflecting consumer perceptions of brands in the market place (Dallakyan, 2014).

The major statistical techniques for perceptual mapping have been available for decades, but there are still questions about those techniques among practicing professionals (Blake et al., 2003).

The perceptual map is the function of multidimensional scaling (MDS) and various factorial techniques, such as principal component analysis (PCA), correspondence analysis (CA) and discriminant analysis (DA) (Dallakyan, 2014). In this respect, the perceptual map is a graphical display in which different brands can be portrayed so that distances between them demonstrate their differences, similarities or dissimilarities, and is measured by the variables. The variables can be a set of attributes or rank-orderings, evaluated by the consumers on the basis of their perceptions with the brands (Dallakyan, 2014).

Besides, the perceptual map grounded on the perception of customers towards the dimensions of different attributes of a product, service, or brand, is developed using discriminant analysis (Dash, 2015).

In addition, the uncovered spatial configuration of brands can be influenced not only by the perceptual differences between the brands, but also by a respondent-related factor, as respondent- and situation factors can interact with product attribute perceptions in perceptual mapping applications to influence the respondent's ratings of the brands (Dillon et al. 1982). Hence, standard practice in perceptual mapping is to collect respondent background characteristics along with the brand attribute rating data used to derive the perceptual map (Dillon et al. 1982).

According to Gower, et al. (2010), Correspondence analysis (CA) is a popular perceptual mapping method that is concerned with the analysis of contingency tables. Mathematically, however, the method can be applied to any nonnegative data matrix. The objective of correspondence analysis is to give a graphical representation of both rows and columns of the contingency table. For this purpose, high dimensional data is approximated in a low (usually two) dimensional space (Gower, et al. 2010).

Multidimensional Scaling (MDS) is concerned with drawing a map from a matrix giving the dissimilarities dij between all pairs of n objects (Gower, et al. 2010). Although MDS exists in two forms: metric MDS and nonmetric MDS, in practice, there is little difference between maps produced by the two approaches (Gower, et al. 2010).

Initially, the respondents are asked to assign scores of attributes on a Likert scale in the questionnaires. Then, visualization techniques of multidimensional data - multidimensional scaling (MDS) is used to obtain the perceptual map. MDS is widely used in the marketing research to solve marketing problems, and in particular, in the area of perceptual mapping, for which the purpose is to derive a spatial representation of the market (Bijmolt & Wedeu, 1999).

Multidimensional Scaling (MDS), a decompositional multivariate analysis technique has the capability of mapping out the perceptions held by consumers in terms of brand personality. A perceptual map can be generated from the obtained responses using MDS (Mishra & Mohanty, 2013). The perceptual mapping of the brands is based on the similarity / dissimilarity evaluation carried out by the respondents. To these ends, SPSS is widely used to combine the responses and create a perceptual map through aggregate analysis. It should be also noted that the MDS PROXSCAL routine creates distances based on a Euclidean scaling model of two dimensions (Mishra & Mohanty, 2013).

MDS is "a procedure that allows a researcher to determine the perceived relative image of a set of objects" (Hair et al.
1998 as cited in Kim, 2002). It arranges a set of objects in a common space based on the similarities or differences of the object. The major advantage of MDS is that it provides visual representation of the similarities or differences among the objects (Kim, 2002).

According to Kim (2002), the positions of the companies or brands appearing on the perceptual map can be used by the companies to clarify the strengths and weaknesses identified by the customers' perceptions. It should be pointed out that companies that are located in similar positions on the perceptual map might actually not be competitors, and the positions of brands can be changed over time (Kim, 2002).

Moreover, correspondence analysis is used to construct compositional perceptual maps. Besides, the application of chi-squared trees analysis can be used to cluster both brands and attributes (Bendixen, 1995). A central aspect of the interpretation of perceptual maps is the identification of sets of brands that are perceived similarly, or are associated with a similar set of attributes. Consequently, compositional perceptual mapping remains an important tool in branding and positioning, as perceived by consumers, and is fundamental to the development of appropriate marketing strategies. The further segmentation of brands, based on similarity in perceptions, identifies directly competitive sets. This allows for a more detailed understanding of market structure and consumer behaviour and can enhance the marketing planning process (Bendixen, 1995).

In summary, perceptual mapping tools are very useful for marketing managers, as they are helpful in making decisions about product design, customer value, and brand positioning.

Methodologies for Developing the Perceptual Map

Perceptual maps serve as an effective visual guide for the marketing managers as they consist of two dimensions. In case a product has only two characteristics, the researcher asks the respondents to evaluate these two attributes of the brands and shows the results on a graph. However, most products have more than two characteristics, and consequently, they are evaluated by a set of attributes. In such cases, two methods are proposed for developing perceptual maps: the attribute rating method and the overall similarity method (Dolan, 1990; Rekettye & Liu, 2001). The first method is used in those cases where relevant product attributes are easy to identify and articulate. Customers are presented the full list of attributes and are requested to rate each brand on each attribute. On the basis of the information the statistical analysis - either factor analysis or multiple discriminant analysis - can be used to prepare the two-dimensional perceptual map (Rekettye & Liu, 2001). The second method is used in the case of products where attributes are hard to verbalize. Respondents are presented the brands pairwise and are asked to judge them according to their preference. This method uses the statistical procedure called multidimensional scaling to lead to the production of a two-dimensional map (Rekettye & Liu, 2001). When attributed rating method is used in the survey, first those attributes must be identified which influence the buying decision. This can be done by group discussion or other techniques of qualitative research method. Then, the respondents can be asked in the questionnaire to evaluate the importance of each attribute. For this intention, a Likert scale should be used to rate them from 1 to 7 or 10. Finally, the perceptual map is designed based on the results of the survey to visualize the positioning of brands.

The research of Blake et al. (2003) focused on multidimensional scaling (MDS) as it is widely used by market researchers, and documented the application of two widely used perceptual mapping technique - Classical and Weighted Multidimensional Scaling. They used the statistical software program SPSS asserting that the ideas can be generalized to other statistical packages and programs, and have provided a guide for performing perceptual mapping techniques (Blake et al., 2003).

Classic MDS is also known as Torgerson Scaling or Torgerson-Gower Scaling (Borg & Groenen, 2005). Classic Multidimensional Scaling (CMDS) mapping can identify how well an advertisement or tagline can fit a company, or
even be incompatible with a particular brand name. Using this method, respondents rate the similarity of pairs of the items on a 0-10 point scale, higher numbers meaning more similarity. The closer together on the map are the items, the more similar they are perceived to be (Blake et al. 2003).

In Weighted Multidimensional Scaling (WMDS), the perceived similarity among stimuli is considered, but differences in perception among specific segments of individuals are identified. WMDS calculates the differences among the groups of respondents on a given number of dimensions (Blake et al. 2003).

WMDS shows the importance of a dimension to a particular segment when that segment perceives the stimuli in question. One map is produced for each segment. The closer together the stimuli are on the map, the more similar is the weight assigned to an object on a particular dimension. The data can be also separated into male and female segments (Blake et al. 2003). According to the study of Blake et al. (2003), this kind of perceptual mapping can aid in determining how appropriate or inappropriate an advertisement can be for a company depending on the target market segment of interest. Consequently, this mapping technique can identify the most appropriate advertisement for a particular brand name in general.

Researchers suggest that CMDS can reach two general goals: First, CMDS can estimate the relative importance of the dimensions that respondents use to judge the degree of similarity or dissimilarity among the stimuli; second, the degree of similarity among all of the stimuli on those dimensions can be assessed (Blake et al. 2003).

Furthermore, Blake et al. (2003) describe the steps for perceptual mapping using CMDS that is a statistical technique created to transform data indicating the degree of rated similarity or dissimilarity of objects to scores indicating distances among the objects. A “map” is constructed to show the distances among the objects. Objects closer together on the map are perceived as more similar, while objects further apart are perceived as more dissimilar. The same unit of measurement is used for all of the distances among the objects. One matrix of data is used, displaying the perceptions of one person or the average person’s answers in the group of respondents in question.

The data analyzed in CMDS can be ordinal, interval, or ratio. Ordinal data arranges objects in a rank order from high to low on a dimension, whereas interval data pertains to numbering in which one number is a fixed amount more or less than another number, and ration data has a true zero point in contrast to interval scale, and hence allows a researcher to calculate ratios or proportions (Blake et al. 2003).

As revealed in the literature, there are both advantages and disadvantages of using CMDS (Table 1).

<table>
<thead>
<tr>
<th>Advantages of using CMDS</th>
<th>Disadvantages of using CMDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>It shows the uniqueness of an object based on specific dimensions, which represent distinguishing attributes.</td>
<td>The researcher doesn’t know the nature of the dimensions unless additional analyses are conducted to label the dimensions.</td>
</tr>
<tr>
<td>It is useful in finding unique brand images and distinctive product concepts.</td>
<td>It does not directly show any differences in individual respondents or segments because it aggregates everyone.</td>
</tr>
<tr>
<td>It is easy to determine the fit, or lack of fit, of advertisements to brands.</td>
<td>It may not show the goodness of fit for a single stimulus object, although it estimates for the objects as a group.</td>
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<tr>
<td>It can identify the competitors of a brand - a brand perceived to be comparable.</td>
<td>It does not inform the researcher whether differing from another brand in the set is good or bad for the brand’s image because CMDS does not incorporate respondent's preferences into the map.</td>
</tr>
<tr>
<td>It is relatively simple to understand the output.</td>
<td>There is a problem of actionability. In many applications, it cannot be the sole guide to strategy because it does not provide information on how to change a brand’s image.</td>
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By default, SPSS assesses higher numbers as more dissimilar. Consequently, the questionnaire needs to use higher
numbers to indicate dissimilarity and lower numbers to indicate similarity. Otherwise, the values would need to be recoded (Blake et al., 2003).

According to Blake et al. (2003), WMDS is based upon CMDS, but extends the simpler CMDS to allow for individual segment differences. WMDS generates a “group space”, a mapping that pertains in general to all individuals or segments. However, it does not show the uniqueness of a specific individual or segment. For this kind of mapping, demographical and general background data of respondents are needed.

It is also noteworthy that interpretation is the same as CMDS because all interpoint distances between the objects are on the same scale of distance between each other (Blake et al., 2003). The only difference between CMDS and WMDS analysis through SPSS is under the Model tab, in which Individual Differences Euclidean Distance should be selected (Blake et al., 2003). In addition, under the options tab, the researcher specifies group plots, the data matrix, and the model and options summary. Subsequently, separate maps can be created for different demographic groups, e.g. for male and female respondents, and calculated the distance between each of the possible pairs of points in one map and then correlated that with the corresponding distance on the other map, as well as can be calculate the Euclidean distance separating all points on a map (Blake et al., 2003).

WMDS maps can be interpreted likewise the CMDS maps. But a simple Pearson R correlation can be calculated between the male and female groups. If a Pearson R correlation is high, it can be concluded that the two spaces (male and female maps) are comparable. If a Pearson R correlation is low, it can be concluded that there is a huge difference between the two matrices (Blake et al., 2003).

Obviously, WMDS has also both advantages and disadvantages to the researchers (Table 2).

Table 2. Advantages and Disadvantages of WMDS

<table>
<thead>
<tr>
<th>Advantages of using WMDS</th>
<th>Disadvantages of using WMDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is useful for comparing sectors of the population or market in terms of the way they see particular objects.</td>
<td>WMDS cannot be used as a scaling technique if there are dramatic differences between the matrices. It may be difficult for WMDS to find common dimensions that work for the groups.</td>
</tr>
<tr>
<td>The dimensions on the maps are exactly the same for all segments. If a CMDS were to be calculated independently for each segment, the dimensions may have completely different meanings for each segment. This is because WMDS calculates the separate segment solutions using the same dimensions whereas CMDS does not.</td>
<td>WMDS indicates the perceived similarity of the stimuli, but doesn’t necessarily explain the basis of the perceived similarity (dimensions/ attributes). The researcher will need additional information in the survey to determine labels for the dimensions.</td>
</tr>
<tr>
<td>The ease of interpretability is evident through the use of WMDS due to the dimensions meaning the same thing for all segments.</td>
<td>Respondent fatigue may occur during the questionnaire process because of the repeated paired comparisons. This problem holds for CMDS also.</td>
</tr>
<tr>
<td>Actionability is easier because it clarifies the orientations of different segments of the population.</td>
<td>WMDS does not indicate the degree of preference for the stimuli; it only indicates similarity among the objects. It suggests, then, what people see, but not what they want.</td>
</tr>
</tbody>
</table>


In conclusion, market researchers should choose the perceptual mapping method depending on the research objectives and questions they need to answer. Both CMDS and WMDS are useful when marketers are interested in perceived similarity or perceived fit between one set of items and another set.

Perceptual Mapping Techniques and Interpretation

Hair et al. (1995) as cited in Gower et al. (2010), define a perceptual map as a “visual representation of a respondent’s perceptions of objects on two or more dimensions”. Another definition describes a perceptual map as a
"graphical representation in which competing alternatives are plotted in Euclidean space" (Lilien & Rangaswamy (2003, as cited in Gower et al., 2010). Thus, perceptual maps illustrate data visualizations, which makes them an effective marketing tool, as marketing researchers know, how powerful graphical representation of complex high dimensional data can be. Since consumers' perceptions of products, and relationships between pairs of products are subjects of interest by the researchers, multidimensional analyses are widely used. Therefore, perceptual mapping as refers to the type of data (perceptual) coupled with multidimensional methodology (mapping) is useful. Clear perceptual maps are accompanying by the text about relationships between and within (possibly latent) attributes avoiding difficult statistical concepts. The perceptual maps can be presented in such a way that the information within them can be quickly and correctly assimilated (Gower et al., 2010).

In order to make graphical design decisions while constructing a perceptual map, researchers (Gower et al., 2010) give recommendations regarding its style and scale of axes, labeling to points or lines, text of title and caption, as those decisions impact on the ability of the map to clearly and accurately represent the underlying data. The desiderata (Table 3) ensure that readers of perceptual maps know what is being displayed.

Table 3. Desiderata for Perceptual Maps

<table>
<thead>
<tr>
<th>Desiderata for Perceptual Maps</th>
<th>Include a caption or title.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Include a legend or key when there are two or more types of points or lines</td>
</tr>
<tr>
<td></td>
<td>Ensure that the shape parameter is 1.</td>
</tr>
<tr>
<td></td>
<td>Indicate the origin when it is required for interpretational purposes.</td>
</tr>
<tr>
<td></td>
<td>Label points.</td>
</tr>
<tr>
<td></td>
<td>Avoid clutter.</td>
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However, the desiderata cannot be sufficient for correctly interpreting the map. Thus, the creators of perceptual maps should provide the interpretational guidance. Gower et al. (2010) propose using iconography. Icons denoting the means, by which the map can be interpreted, can also indicate how the relations between points, vectors or lines can be interpreted appropriately (Table 4).
Table 4. Icons suggested by Gower et al. (2010) for interpreting perceptual maps

<table>
<thead>
<tr>
<th>Icon</th>
<th>Interpretation</th>
</tr>
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<tbody>
<tr>
<td><img src="image1" alt="Icon" /></td>
<td>The plot has shape parameter 1.</td>
</tr>
<tr>
<td><img src="image2" alt="Icon" /></td>
<td>Distances are interpretable between two points of the same set.</td>
</tr>
<tr>
<td><img src="image3" alt="Icon" /></td>
<td>Distances are not interpretable between two points of the same set.</td>
</tr>
<tr>
<td><img src="image4" alt="Icon" /></td>
<td>Distances are interpretable between two points of the different sets.</td>
</tr>
<tr>
<td><img src="image5" alt="Icon" /></td>
<td>Distances are not interpretable between two points of the different sets.</td>
</tr>
<tr>
<td><img src="image6" alt="Icon" /></td>
<td>Projections are interpretable between two vectors of the same set.</td>
</tr>
<tr>
<td><img src="image7" alt="Icon" /></td>
<td>Projections are not interpretable between two vectors of the same set.</td>
</tr>
<tr>
<td><img src="image8" alt="Icon" /></td>
<td>Projections are interpretable between two vectors of the different sets.</td>
</tr>
<tr>
<td><img src="image9" alt="Icon" /></td>
<td>Projections are not interpretable between two vectors of the different sets.</td>
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</tbody>
</table>


Thus, the researchers have suggested a set of icons that indicate the rules for correctly interpreting the map (Gower et al., 2010). Therefore, the icons would ensure the direct interpretation passing from map creators to readers. Two key means of interpreting perceptual maps are distance and angle. Distance-based interpretations are those in which the plotted distance between points translates directly to the implied similarity between them. Maps derived from different techniques can also vary in whether distances or angles can only be compared between points of the same set, e.g. respondents, or between sets e.g. between respondents and product points (Gower et al., 2010).

Researchers should choose the appropriate technique for perceptual mapping while considering the interpretation options as well. Consequently, the creators of perceptual maps need to provide the interpretation with text, which ensures to clear communication of meaning of the presented perceptual map.

**Conclusion**

Perceptual maps help businesses to identify patterns in complex data and visualize the important and relevant information. In this way, complex multivariate data can be easily recognized, process or remember. As a result, companies can determine their further actions concerning marketing activities.

The paper describes the perceptual mapping theoretically, which can be related to a real situation or company. Moreover, it can be beneficial for business students who can apply the techniques despite their lack of experience in the marketing area. In addition, the paper may assist managers to better understand and implement the technique. The methodological discussion in this article can be important for responsible managers to choose the appropriate techniques of perceptual mapping, and interpret it. In addition, perceptual map model will assist them to find out gaps in the market in question, and improve their products or services according to consumer perceptions. Furthermore, perceptual mapping will help companies in decisions regarding their brand positioning or repositioning. In addition, the obtained information about brand values through perceptual maps can be used in branding strategies.
The future growth of an enterprise depends on how effectively it can come up with a new or innovative product design suitable to consumer perceptions, as well as how effectively it can influence the perception of a consumer or even change it. Besides, success of the market also depends on how the enterprise can reach the potential customers. Thus, branding is of great importance, and creating impressions on the minds of the customers through accurate positioning can be critical in gaining the competitive advantage. Finally, companies should conduct marketing research using perceptual mapping in order to consider important attributes of their brand, products, and services, and focus on perception of their consumers to be able to success in the competitive markets.

References


