

Research Article

Identify and Prioritize Factors Affecting the Date Export by MADM Techniques

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ABSTRACT

To enter the global market, companies have taken different approaches, one of which is export promotion. The use of proper export procedures has high impact on corporate performance in these areas. The main objective of this study was to evaluate and select the best method for date export that the Analytic Hierarchy Process is used. The sample size of this study consisted of 30 experts have been involved in the date export and to gather information the Analytic Hierarchy Process software and TOPSIS used. The results of weighing criteria showed that among the factors, ads with weight (0.210), distribution (0.173), the risk of Sale (0.142), price (0.117), external competitiveness (0.099) packaging (0.088), quality (0.066), the risk of failure (0.044), internal competition (0.025), and delivery (0.025) shown the highest and lowest weight among the elements. The review found that the methods of export for export to the intermediate state (0.72) State (0.55) and personal (0.19), respectively, the highest and the lowest priority among the options have investigated.

Keywords: Export, date, AHP, TOPSIS

INTRODUCTION

To enter the global market, companies have taken different approaches, one of which is export promotion. Success in export of a company can be effective in survive and grow in the company. A growing number of companies in this space are an opportunity to expand their international activities in order to achieve goals such as growth, profit and sales, diversification of business risks and even retaliate foreign presence in the market have found.

In this situation, almost all companies regardless of their size and industry are working or their nationality has found the fact that the choice of activity in world markets soon will not exist for

them. In this regard in order to expand trade, economies worldwide are removing complexity for access to international markets and trade liberalization. It can be said that a wide range of factors affect exports. Factors such as motivation, experience, growth, export influence on the export performance of the company and behaviors [1]. In fact, exports and evaluate its success can be measured by export performance. In this chapter of the study, pay to an overview of the research. The main problem explained, then the importance of the subject matter presented. In the next section, objectives, questions, and hypotheses expressed.

STATEMENT OF PROBLEM

For several years, the business environment with features such as increased competition and lack of stability is clear. For all businesses in the current environment, export performance represents a serious distinction between different countries [2]. In view of the competitive conditions prevailing in global markets, entry to export markets and achieving good results of these markets, have obstacles and problems. The export companies are trying to overcome these barriers, improve their export performance. This is not possible unless businesses have a scientific marketing system. Changing global economic situation and its complexity would have made all the companies that turn to scientific methods and new marketing and coordinate with the international community needs [3].

Active firms in different countries as saturated domestic markets or by the attraction of foreign markets, their products exported to other countries. Among the different ways of entering international markets, exporting as a simple method, yet critical, and it is used by companies in order to benefit from the opportunities and revenue and financial and other benefits are constantly looking for export promotion, as in many developing countries such as Iran, export rebound as traders defined strategies [4].

Exports of goods and services organization considered as a dynamic process deciding on three main activities in the process done. These subsystems are in the process of exporting goods and services, target market selection, entry into the international market and subsystems mix the international market [5]. Warren J. Keegan believed some of the problems associated with exporting companies are often faced with the problems associated with promoting sales (advertising, packaging, vendors activities, marketing information and coordination in the field of distribution) and problems associated with information about foreign markets (identifying and selecting markets, trade

restrictions and study competition in abroad) [6]. In general, the effects of foreign trade can be divided into two parts: direct impacts such as international business, expand markets, increase the side effects of investment, resource allocation, and indirect effects such as the supply of items needed, transfer knowledge and modern technology, transfer of foreign investment and encourage competition divided [7]. It seems that oil exports overall has not effects on economic development in Iran. But what is certain, based on the studies can be said that the largest share of national income is related to the growth rate of oil exports, indicating the high dependence of the Iran economy on oil exports [8].

The dependence on oil exports had many disadvantages during the period of economic sanctions on Iran, which lack proper infrastructure in non-oil exports were more intense. Iran's geographical climate and location was suitable for an agricultural production in the area, which is one of these was date. It stated that date is one of the most important of non-oil exports, which exports a long history. In previous years, in 2006 Iran in term of the export of date has always ranked first or second in the world [9]. However, as stated, with regard to sanctions intensified in recent years exports of all products faced with many problems. That it is necessary to identify factors affecting export any products groundwork for implementing effective export activity detected in each section. Export performance and its influencing factors have studied extensively and the studies have emphasized on two aspects of the company and outside the company. Internal factors such as marketing strategy, organizational structure, management practices, and access resources and external factors in form of the competitiveness of industry, business environment, product features in this area has been proposed [10]. The study also attempts to use the Analytic Hierarchy Process to identify and rank the factors affecting export.

RESEARCH LITERATURE

Karimi Fard et al (2011) in a study to determine the issues of marketing and date export in the Khozestan province have expressed in this study, to investigate the problems of marketing and date export in the Khozestan province as one of the most important producing regions of dates. To this end, the marketing margin, the share of marketing, and marketing cost coefficient of performance for 5 kinds of dates (Kabkab, Gentar, Stemaran, Brim and Zahedi) calculated. The marketing margin function using the mark-up (surcharge), relative margin and marketing costs estimated. The data required for the study both documents with the resources and survey through random sampling and completed 240 questionnaires were collected and using SPSS software and EVIEWS analyzed. The results showed that among types of date, Kabkab date with marketing cost 6000 rials per kg had the lowest, Zahedi dates with 12,000 rials per kg had the highest marketing costs.

The results of marketing efficiency, shows that in terms of technical performance, the highest for all dates related to the Stemaran date (67%) and lowest for Kabkab date (13%) and the price efficiency for all kind was high.

The results of marketing margins function showed that marketing margins in relative margin and mark-up models have a direct relationship with the retail price, as well as in the marketing cost model-marketing margin directly related to the marketing cost. According to the results, it suggested that due to the low share of proportion of the final price of the product, has taken steps to marketing services by farmers and by forming marketing cooperatives in order to decrease the role of intermediaries and increase manufacturing's share of the final price of the product. It is also possible by holding classes in various stages of production, and enhances product quality and thus increased the products export with high quality [11].

Jafreh and Farajollahi (2009) in a study entitled analysis of factors affecting export of pistachio in Iran have expressed that the lack of understanding of global business conditions and factors affecting the exports of goods and services export is a major issue in pistachio. The Dutch disease relies on oil exports have led to reduced export in recent decades. Export growth of pistachio due to two essential factors, the first batch of economic variables such as real exchange rate, foreign income and amount of pistachio production have a positive impact in the development of export of this product. For this purpose, we have used econometric models and time series statistical data. Second, business and marketing variables that are factors affecting it is using a field study we have obtained. Factors such as laws and regulations, marketing, advertising costs, product quality, customs support, macroeconomic instability on pistachio export rules and conditions are effective [12].

Hosseini and Homan (2007) in a study as the study of the date global market and date target markets for Iran's export expressed in this paper after presents research theoretical and methodological foundation (in both the market structure and target markets), the structure of date global production, the global structure of trade (imports and exports) structure of Iran's date export, Iran's export target markets and, finally, conclusions and policy recommendations discussed. The results of this study indicate that global production of date had fluctuations during the period 1989-2001, have multilateral monopoly and Iran's share of world production has increased and the share of Saudi Arabia, and Iraq is declining [13].

World trade structure reveals that the structure of global exports of dates from close multilateral monopoly to open multilateral monopoly has changed and monopoly power of date global exports decreased. In contrast, structure of date global import follow multilateral monopoly and date global importers monopoly power has added.

Comparing the structure of the global import and export of dates shows that the monopoly is for the importers than export it. Iran's date export structure shows that importers of dates from Iran have not been relatively stable during the years 1979-1989 and joined the bargaining power of Iran in the importers of date reduced. Nevertheless, during the years 1989-1999, especially in the first development plan, with the arrival of a large number of the country to total imports from those countries has reduced monopoly power and major importer of Iranian dates, are countries that have begun to re-export the product. Finally, 29 countries have similar characteristics with Iran's export target market as export target markets of Iran's date have introduced. This study concluded that late policy recommendations, suggestions and considerations end.

Rastegari Pour and Homayoni (2007) in a study to determine the economic and political factors that affect the non-oil exports of Iran have suggested that crude oil exports due to fluctuations in the price of these products in global markets, leading to fluctuations in GNP, per capita income and other the country's economic variables. As a result, the growth of non-oil exports and its determinants has great importance. The effects of economic and political variables are some most important trading partners of Iran, have been studied in non-oil exports. The corresponding figures for the 15 countries for 10 years (1995-2005) collected and analyzed and categorical variables and time series by combined models have evaluated. In the economic sector factors such as per capita income, population, consumer price index and exchange rate in trading partners of Iran, are factors affecting Iran's non-oil commodity exports. Political instability in these countries will also affect the exports of Iran. The results showed that the population, per capita income and consumer price index increased trading collaborates of Iran; Iran's exports to those

countries increased. However, exchange rates and political instability in these countries with Iran's exports has inverse relationship [14].

Mohammad Zadeh and colleagues (2003) in his research on date production and marketing in Iran has stated that the comprehensive review of date from production to export, have comparative advantage in production and exports, production and export growth as well as efficiency and marketing margins was calculated. Bushehr, Kerman select as index zones in date production and by the use of classified sampling from production to export, tries to interview and complete the questionnaire. The results of the policy analysis matrix represent a significant comparative advantage in production and earnings potential through breeding base product. Taking advantage of the techniques of marketing and the respect product earn standards intensified. The results confirmed the existence of a comparative advantage in the export of Iran [15].

Kazemzade and Abounoori (2006) estimate the export supply and demand functions of Iran date using a simultaneous equations model to estimate demand and supply functions of exports of Iran date by simultaneous equations and time series data of the years 1971-2003 the Ministry of Agriculture and Ministry of Commerce are used. In this regard, using the Phillips-Perron unit root test and integration variables the results show that the variables in the model related to each other in the long term. The equations model in both primary and convergent conditions estimated. The results show the demand function of date export, intercept variables, date relative export prices, the real exchange rate, the production of dates in other countries, date export and the war dummy variables are significant. The supply function of date export, export volume, export value of delay, the wholesale price of domestic, domestic production date and the exports value of delay is significant and effective variables. Therefore are among the effective variables. The

short-term price elasticity of export demand was -0.53, respectively, which are smaller than the long-term (-1.18). For short-term price elasticity, export supply 7.21 estimated [16].

Khalilian and Farhad in 2002 investigate the factors affecting the agricultural sector's exports during the period studied 1962-1999. Their results showed that GDP (production capacity), the relative prices of exports and domestic consumption have a significant impact on the supply of agricultural exports [17].

Amornkitvikai et al (2012) study factors influencing participation of exports and export performance in the small and medium enterprises in Taiwan to categorize these factors discussed. He corporate level factors as size, age, investment, productivity, skills, staff, location, company, government support introduced [18].

Nadeem et al (2012) study the factors affecting the exports have suggested that the results of this research showed that global revenue, industry value added, excise, exchange rates, and save the export of factors affecting export in Pakistan [19].

Sidin (2008) the impact of environmental factors as an intermediary in export marketing performance in the wood industry has stated that in the study of factors affecting export performance of the environmental factors is studied. The results showed that the export of strategic performance has no direct impact on export performance. However, the relationship between marketing mix of products and export performance is significant [20].

Calantone et al (2004) in study as internal and external factors of the adaptation of international companies and export factors affecting export performance in the three sectors of business, industry factors and factors related to its market categorized [21].

Mattson and colleagues (2004) concluded that effective factors on beef exports from Canada to America and exchange rate, production, price differences and limited trade in Canada and

America Free Trade Agreement, Canada and America is in 1989 [22].

Conceptual Model

Research conceptual model presented in Figure 1:

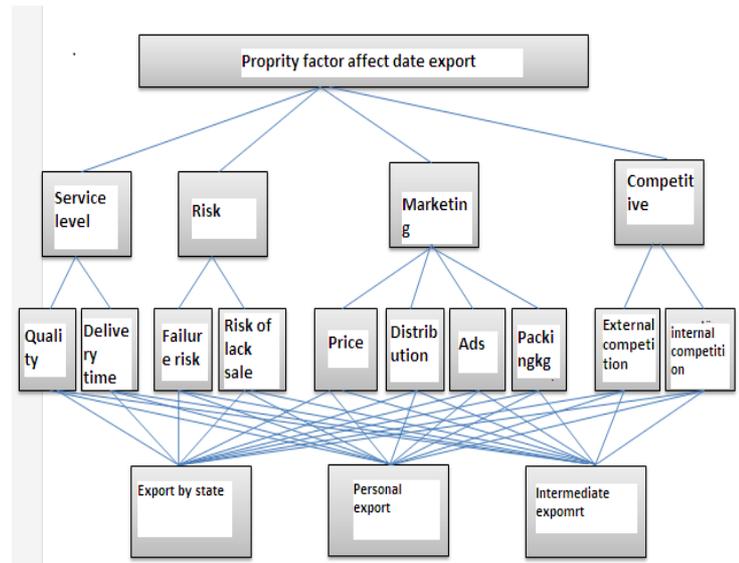


Figure 1 Model prioritize factors affecting date export In this model, according to the date need in the country's three-export method in the form of self-exporting manufacturer, export through intermediaries and eventually export through government in the different aspects with respect the need for export through the literature. It is outside the scope of export factors, analyzed, and determines the most important factors in addition to export are most effective aspects of export performance identified the product.

HYPOTHESES

- Marketing is the most important factor in the export.
- The best way to date export in the current conditions of export by the government

RESEARCH METHODOLOGY

The study describes the status of each variable in the target population. Therefore, we can consider this research as descriptive research. Since the questionnaires and field method used to measure

the variables we can considered research survey and due to the applicability of the results of this research is in the applied group. Depending on the type and nature of the research, the following methods used to collect the information needed: Using the library to gather information and achieve theory required the university library named. Using questionnaires to collect information about the study used a sample. Based on theoretical studies, library and Internet (books, articles, theses available in English and Persian) is used. Then, the collected data will be preparing a questionnaire. Questionnaire using questions are paired comparison is made. In these questionnaires, the respondents want to the priority or importance of each item to determine each component. In order to confirm validity, content validity and for reliability, questionnaire compatibility rate ahp used. If this rate is less than 1.0, questionnaire compatibility verified and the data are reliable. In this study, to analyze the information and determine the priority dates of factors affecting date product export Analytic Hierarchy Process to determine the weighting of criteria and TOPSIS method used to determine the priority options.

In the study after collected data through questionnaires in accordance with the procedures of the conceptual model; after making hierarchy and experts paired comparisons, the weight of criteria and sub-components are calculated using the Analytic Hierarchy Process and the final ranking is determined using TOPSIS. For the implement, the Analytic Hierarchy Process used Expert Choice software and to implement the method used Excel spreadsheet software.

ANALYSIS OF THE RESULTS

Descriptive analysis results

In the Study of respondent's gender appear to be the dominant subjects were men. In this group, 85% of the samples examined. Women accounted to have only 15% of the sample population. In the education sector can be said that 50% of

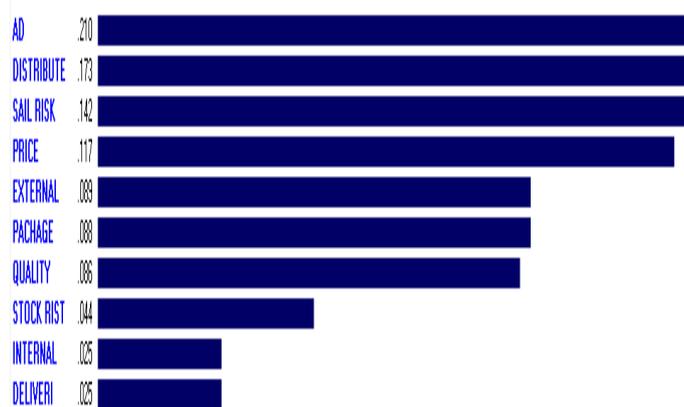
subjects in the group with a master's degree. In addition, 40% of people with bachelor's degrees and 10 percent have a doctoral degree. Finally, in terms of age, according to results presented in this section make up 45% of the predominant group of middle-aged people in the group aged 41 to 50 years. In addition, 35% of people aged between 30 to 40 years, and finally 20 percent are older than 51 years.

This age group has the lowest groups have formed in the age component.

Hierarchical analysis of data

In Figure 1 the weight of research metrics obtained through hierarchical analysis is provided:

Figure 1 shows the weight of criteria



According to Figure 1 through agents, advertising with weight (0.210), distribution (0.173), the risk of sale (0.142), price (0.117), external competitiveness (0.099) packaging (0.088), quality (0.066) the risk of failure (0.044), internal competition (0.025), and delivery (0.025) the highest and lowest weight among the elements are shown.

Prioritize different parts of the population, using TOPSIS

The first step: decision-making matrix

The results of the expert opinions presented in the following table. In this context, the questionnaire as matrices presented for

respondents and were asked to rate the importance of each factor on export procedures in the selection of a specific method determined. Experts in this field based on the average number

calculated determined numerical value based on geometric mean known. The operation performed for all the empty cells until eventually all cells of the matrix completed.

Table 1 decision matrix

Type export	Internal competitiveness	External competitiveness	Price	Distribution	Advertising	Packing	risk of lack Sale	risk of failure	delivery time	Quality
Intermediate	3.24	3.57	3.49	3.60	4.49	1.82	1.79	1.45	1.36	3.18
Personal	1.82	2.05	2.06	1.73	1.68	3.32	2.61	2.39	2.06	2.08
State	2.16	2.19	4.33	2.43	2.83	3.03	2.74	2.19	4.33	2.43

Second step: without scaling decision matrix

In this step, each decision matrix of cell values on vector size of the index divided. Dimensionless matrix provided in Table 4-6.

Like other methods of multi-criteria of decision-making matrix should be normal. To normalize the values the vector method used. Unlike normal operation, simple linear method is as follows:

$$r_{ij} = \frac{X_{ij}}{\sqrt{\sum_{i=1}^m X_{ij}^2}}$$

Table 2 matrix of without scaled

Type export	Internal competitiveness	External competitiveness	Price	Distribution	Advertising	Packing	risk of lack Sale	risk of failure	delivery time	Quality	total
Intermediate	0.44	0.50	0.52	0.54	0.41	0.25	0.25	0.21	0.20	0.44	3.76
Personal	0.25	0.28	0.29	0.26	0.25	0.30	0.36	0.33	0.29	0.31	2.92
State	0.32	0.33	0.39	0.37	0.39	0.42	0.39	0.33	0.39	0.37	3.7
Intermediate	1.01	1.11	1.2	1.17	1.05	0.97	1	0.87	0.88	1.12	

Table 2 without scale matrix associated with the decision matrix is provided. As can be seen largest collection of rows in connection with the intermediate export (3.76), also the maximum amount of columns in relation to price observed. Values in each cell represent without scale value each method after the agent is any method that as the average of the experts proposed.

Third stage: the probability multiple (weight) in the soft matrix

The next step is a normal matrix weighted based on the weight criteria. So should the criteria weights using a technique such as AHP or Shannon entropy calculated. Rhythmic is very simple and the weight of each criterion multiplied by in the column values.

In this sector, calculated weight on the Analytical Hierarchy Process (Figure 1) in the column values of each indicator, multiplied by the probability matrix multiplied.

Table 3 shows the probability criteria

Type export	Internal competitiveness	External competitiveness	Price	Distribution	Advertising	Packing	risk of lack Sale	risk of failure	delivery time	Quality
Probability	0.025	0.099	0.117	0.173	0.21	0.088	0.142	0.044	0.025	0.066

Table 4 shows the probability (weights) in the decision matrix

Type export	Internal competitiveness	External competitiveness	Price	Distribution	Advertising	Packing	risk of lack Sale	risk of failure	delivery time	Quality
Intermediate	0.009	0.045	0.057	0.092	0.086	0.020	0.035	0.008	0.004	0.026
Personal	0.005	0.025	0.032	0.044	0.053	0.024	0.050	0.013	0.006	0.019
State	0.006	0.030	0.043	0.063	0.080	0.034	0.055	0.013	0.008	0.022

Fourth Step: Determine the ideal and anti-ideal solution

At this point, should the options of respondents as the most important and minor factors have been identified. In other words, the positive indicators, positive ideal have maximum value v and negative ideal smallest value v, as well as for negative indicators, positive ideal have smallest value v and negative ideal have maximum value v.

Equation 3 and 4 states it.

Ideal

$$\text{Equation (3): } A^+ = \left\{ \left(\max_i V_{ij} \mid j \in J \right), \left(\min_i V_{ij} \mid j \in J' \right) \mid i = 1, 2, \dots, m \right\} = \{V_1^+, V_2^+, \dots, V_n^+\} \text{Positive ideal}$$

ideal

$$\text{Equation 4: } A^- = \left\{ \left(\min_i V_{ij} \mid j \in J \right), \left(\max_i V_{ij} \mid j \in J' \right) \mid i = 1, 2, \dots, m \right\} = \{V_1^-, V_2^-, \dots, V_n^-\} \text{negative ideal}$$

In this relationship, J the positive indicators and J' are negative indicators.

Table 5 ideal and anti-ideal solution

Solution value	Internal competitiveness	External competitiveness	Price	Distribution	Advertising	Packing	risk of lack Sale	risk of failure	delivery time	Quality
Ideal solution	0.009	0.045	0.057	0.092	0.086	0.034	0.055	0.013	0.008	0.026
Anti-ideal solution	0.005	0.025	0.032	0.044	0.053	0.02	0.035	0.008	0.004	0.019

Equation 6:

$$S^- = \sqrt{\sum_{j=1}^n (V_{ij} - V_j^-)^2} ; i = 1, 2, \dots, m : \text{ The distance } i \text{ th options from negative ideal}$$

The distance from the ideal point and anti-ideal

Distance from the ideal

Distance from the ideal

Table 6 Distance size from the ideal

Options	Ideal
Intermediate	0.0252
Personal	0.0679
State	0.0361

As explained in the above table distance from any of the options to the ideal shown.

Table 6 ideal is the positive mode, as the highest values of the criteria in one column will display. The purpose of anti-ideal state is negative mode. The lowest number in the harmonious matrix related with any standard display.

Fifth step: gaining size of distance

At this stage, the distance of each of the positive and negative ideal with respect to 5 and 6 equation determined.

(5):

$$s_i^+ = \sqrt{\sum_{j=1}^n (V_{ij} - V_j^+)^2} ; i = 1, 2, \dots, m :$$

Distance i th options from positive ideal

Accordingly, Euclidean distance to positive ideal displayed.

Distance from the anti-ideal:

Table 7 Distance size from the anti-ideal

Options	anti-ideal
Intermediate	0.0670
Personal	0.0164
State	0.0447

As explained in the above table distance from any of the options to the ideal shown.

Accordingly, Euclidean distance to negative ideal displayed.

Close to ideal solution

In this section, based on distance values from the ideal of positive and negative are as close to the ideal state is calculated. At this point, the following formula is used:

$$C_{i*} = \frac{S_{1-}}{S_{1+} + S_{1-}}$$

In this formula:

C * = close to ideal

S1- = Distance size from anti-ideal

S1 + = Distance size from the ideal

The close distance values to the ideal per option were as follows:

Clearly, that is $0 \leq C_i^* \leq 1$. If $C_i^* = 1$ the option C_i positive ideal solution and if $C_i^* = 0$ the option C_i is negative ideal solution. The different options can be ranked according to how close to the positive ideal solution and avoid the negative ideal solution.

Table 8 close distance to ideal

Options	distance from ideal
Intermediate	0.727
Personal	0.195
State	0.553

According to Table 8, it said that the procedures for export to the intermediate state (0.72) State (0.55) and personal (0.19), respectively, the highest and the lowest priority among the options have investigated.

DISCUSSION AND CONCLUSION

Emphasis on competitive advantages products can be effective in creating new markets.

In marketing, advertising the use of appropriate packaging and packaging methods and also evaluate price offer products with competitive price along with extensive distribution channels in order to rapidly provide the product can create a mental picture for the export of this product is effective functions.

In the risk section, multiple buyers and sell some products to the public sector cannot will often reduce the risk of lack sales. The risk of failure of timely delivery and flexible system can solve the problems of the risk of crop failure.

Also in the field of provision of services, as soon as possible and to farmers in order to export quality products can be effective in creating a brand for export.

Suggestions for future research

The implementation of various services export model, and compare the results with the more detailed planning can be effective for different industry.

The test model through structural equation analysis to identify effective dimensions

Test the model in different countries in order to compare the results

Evaluation of export and identify the methods by Fuzzy Delphi method

Use of different control variables such as climate and organizational culture and organizational structure in order to provide a more detailed analysis

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