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## Survey Design for Determining Tourist's Travel Destination Choice

### Noorezatty Mohd Yusop, Sarah Ahmad Razlah, Anesha Humaira Abu Hasan, Haleesya Abu Bakar

Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, Negeri Sembilan Branch, Seremban Campus, Seremban, 70300 Negeri Sembilan, MALAYSIA Email: noorezatty@uitm.edu.my

#### **Abstract**

The tourism industry plays an important role in the economic growth of countries all around the world including Malaysia. Thus, identifying tourist most preferred travel destination based on a set of travel criteria assist in the strategy of marketing and promoting a travel destination. The objective of this paper is to propose a survey design to determine the most important travel criteria for selecting travel destinations in the state of Perak, Malaysia. The Analytical Hierarchy Process (AHP) was employed and the decision problem was structured into a three-level hierarchy consists of the goal, travel criteria and travel alternatives. The study had identified three travel destinations namely Ipoh, Kuala Kangsar and Pulau Pangkor and four travel criteria; beauty, cost, transportation and accommodation. Respondents consist of tourists of Perak were required to answer a set of questionnaires to provide pairwise comparison scores of travel criteria and travel destinations based on 1-9 scale. This paper shares strategy in travel's choice problem formulation and questionnaire design.

**Keywords:** Analytical Hierarchy Process, Multi-criteria Decision Making, Tourism, Travel Choice, Destination Choice

#### Introduction

Understanding domestic tourists' preferences on destination choice can be a key factor in tourism authorities and travel agencies planning, especially when it comes to deciding each tourism destination's marketing strategies. However, the selection of tourist's most preferred destination is complicated and involves a multi-criteria process (Roy et al., 2019). Thus, tourist's decision-making had always been a concern. Malaysia is a country with many states consisting of many points of interest and the interest of this study is to determine the factors that are important in attracting tourists to a specific travel destination.

Underlying reasons for tourists to select a destination are derived from multiple different factors or criteria. Diverse contributing factors result in a more complex decision-making process. The level of importance of travel criteria and travel choice could be done through the ranking process. The process helps to determine tourist travel destinations and factors

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affecting the choice, alarming tourism management their strengths and weaknesses. The results may help them to expand and grow the potential of Perak in the tourism industry.

Problem of tourism destination selection or destination choice can be categorized as AHP problem (Genç & Filipe, 2016). The Analytical Hierarchy Process (AHP) originally introduced by Saaty (1977 & 1980) is a procedure for organizing and analyzing multi-criteria decisions. AHP has a specific application in complex decision-making and is used in an extensive variety of decision-making situations in various fields (Rezaeisabzevar et al., 2020). The process in AHP involved developing a numerical score to rank each decision based on how well the alternative meets the criteria of the decision maker. The method can assist decision makers in evaluating a finite set of alternatives to choose the best option, rank options according to level of importance, and classify options into predefined groups (Kolios et al., 2016). Studies had shown that the method was applied to solve the issue of making choices for an individual or a group.

#### Objectives of the paper:

- i. To determine the factors in attracting tourists to a specific travel destination.
- ii. To develop a survey design in identifying the most important criterion for selecting travel destinations in the state of Perak, Malaysia.

#### **Travel Criteria of Travel Choice**

Traveling helps us to meet people from various cultures, each with their own customs and ways of life. Some people, on the other hand, travel for particular purposes. Destination choice has always been an important aspect of tourism literature and many criteria or factors influencing travel decisions.

Accommodation is essential in the tourism industry since it is one of the most important aspects of the tourism supply chain and has an effect on tourist satisfaction (Silaban et al., 2019). Accommodation is a place to stay that caters to the needs of visitors on a daily basis and at any given time. This will be much needed for tourists who require a place to rest and revive during their travel (Giampiccoli & Saayman, 2018). Types of traveller and purposes affect tourists' preferences in selecting a place to stay. For the hotel industry, their five main customers are business, couples, families, friends and solo (Banerjee & Chua, 2016). On the other hand, hotels, relatives' and friends' homes, second homes, and tourist apartments are among the most common choices for senior tourists (Losada et al., 2017). Thus, providing a variety of accommodation facilities gives more choices to tourists.

Alongside, transportation is also an important aspect of the tourism industry and connects tourists to various tourist attractions. Part of each trip is the transportation and transportation system. The tourists' experience and overall satisfaction are influenced by the availability and quality of transportation at the destination (Virkar & Mallya, 2018). Transport enables the tourists to move between their place of origin and their destination that allows maximum exposure of visitor flows to their destinations. According to previous studies, there is a positive relationship between road infrastructure and tourist activities, which will grow the tourism industry (Zhang et al., 2019). For example, in Japan and China, the creation of bullet trains has greatly increased tourism because fast public transportation has made it easier for people to reach tourist destinations. Meanwhile, ride-hailing service Uber plays a

significant role in stimulating the tourism economy in Sub-Saharan African countries (Park et al., 2020). Therefore, understanding how visitors use the transportation system is critical to improve the destination's competitiveness.

In selecting a tourism destination, travellers based their decisions on the perception of the image attributes and the attractiveness of the natural beauty of the travel destination obtained from several sources of information. Beaches, tropical island resorts, national parks, mountains and forests, are traditional attractions because of their natural beauty (Zhang et al., 2019). Tourists may choose to take detours to see those places and take in the sights, even if they are far away (Zhong et al., 2019). Some tourists value beauty differently. Someone who loves the environment may choose to travel to a national park or a coral island while someone who appreciates local heritage may choose places such as monuments, canals, post-war sites, and museums to gain more understanding about the places (Coningham & Lewer, 2019). Normally, tourists valued the uniqueness of the scenery and atmosphere in their photographs and on social media (Huertas & Marine-Roig, 2016).

Tourists select their destinations based on the cost of travel. Therefore, the estimated cost can be calculated based on the trips performed by tourists. If the tourists have a small budget, they will select a spot that is close to their home to save money on transportation (Caisar Darma et al., 2020). They would use some of their earnings for other expenses including transportation, food, accommodation, shopping, and other necessities while on vacation. Besides that, the level of income affects the willingness to spend and decision of travel location. The desire to travel increases as one's income rises (Jebb et al., 2018). Higher income tourists are willing to travel far from home or pay high transportation costs. The following table presents the travel criteria that influence tourists' travel destinations.

**Table 1: Criteria of Travel Destination Choice** 

Travel Criteria	Description
Accommodation	Different types of accommodation available
Accommodation	for different tourist's preferences
Poputy	Destination that holds beauty in landscape
Beauty	and environment that captivates tourists
Tuenenent	Availability of any mode of transportation
Transport	for the convenience of tourists
Cost	Destination with adaptable budget ranges
Cost	for tourists

#### Methodology

This research was organized in two phases. In the first phase, the problem was formulated as a multi criteria decision making problem and involved the process of identifying the goal, decision criteria, decision alternatives and designing the questionnaires. The second phase involved the use of the instrumentation on a set of participants to generate results, conclusions and recommendations for the study. This paper discusses the process of problem formulation and the design of questionnaires thoroughly.

#### **Problem Definition and Goal**

The objective is to determine the priority of travel criteria for selecting travel destinations in Perak. Points of interest in Perak were categorized and this paper proposed three travel destinations namely Ipoh, Kuala Kangsar and Pulau Pangkor.

**Table 2: Choice of Alternatives** 

<b>Travel Destinations</b>	Points of Interest
Ipoh	Concubine Lane, Mural Art Trail, Café
ipon	Hopping, Museums, Monuments
Dulau Dangkor	Pangkor Hill Hiking, Island Hopping,
Pulau Pangkor	Water Activities
	Muzium Diraja Kuala Kangsar, Tekat
Kuala Kangsar	Emas Weaving, Labu Sayong
	Craftsmanship

#### **AHP Hierarchy Structure**

Based on Figure 1, the objective or goal is positioned on the top level of the hierarchy. The problem is to select the most preferred travel destination in Perak by tourists. The selection is to be made from a set of alternatives which are Ipoh, Kuala Kangsar, and Pulau Pangkor at the lowest level of the hierarchy. The selection is based on criteria in the second level of hierarchy namely beauty, accommodation, transportation and cost. Through a synthesis process in analysis, a destination with the highest total rating will be recommended.

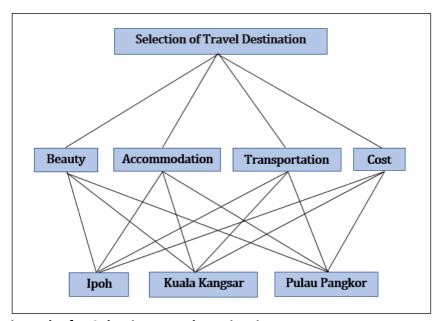


Figure 1: AHP Hierarchy for Selecting Travel Destination

#### **Designing the Questionnaires**

The determination of priority or weights for the elements (decision criteria or decision alternatives) will be done through pairwise comparison of the elements. The technique proposed by Saaty (1980) was applied when comparing two elements. However, more advanced procedures involving fuzzy triangular numbers were frequently employed to infer

values to linguistic variables. Scales used in AHP questionnaire ranges from value 1 to 9 as stated in Table 3.

**Table 3: AHP Preference Scale** 

Preference Level	Numeric Value
Equally Preferred	1
Equally to Moderately Preferred	2
Moderately Preferred	3
Moderately to Strongly Preferred	4
Strongly Preferred	5
Strongly to Very Strongly Preferred	6
Very Strongly Preferred	7
Very Strongly to Extremely Preferred	8
Extremely Preferred	9

In the Analytical Hierarchy Process, comparisons are to be made between travel criteria and also between travel destinations with respect to specific travel criteria. While comparing travel criteria with n elements, there are n(n-1)/2 judgments required to develop the set of matrices. In Table 4, pair-wise comparison between four travel criteria have made up six judgments. Pairwise comparison between elements was obtained from values assigned by respondent using AHP scale.

The values assigned in questionnaire will be transformed into pairwise comparison matrix ranges from 1/9 to 9, where the reciprocals 1/9 would imply that the one element is extremely less important than the other, and 9 implies that the element is extremely more important than the other. A case of equal importance is indicated by the value 1.

The following tables are samples of questionnaires for the respondent to make their choice based on their judgement.

Table 4: Compare each of the following pairs of travel criteria in visiting Perak, which is more preferred?

Travel	Nι	ıme	rica	ıl Sc	ale													Travel Criteria
Criteria																		
Beauty	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Transport
Beauty	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Cost
Beauty	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Accommodatio
																		n
Transport	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Cost
Transport	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Accommodatio
																		n
Cost	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Accommodatio
																		n

Table 5: How would you rate the travel destinations with respect to beauty?

Travel	Νι	ume	erica	al S	cale	!												Travel
Destination																		Destination
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Pulau Pangkor
Pulau Pangkor	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar

Table 6: How would you rate the travel destinations with respect to transport?

Travel	Νι	ıme	erica	al So	cale	!												Travel
Destination																		Destination
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Pulau Pangkor
Pulau Pangkor	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar

Table 7: How would you rate the travel destinations with respect to accommodation?

Travel	Νι	ıme	erica	al So	cale													Travel
Destination																	Destination	
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Pulau Pangkor
Pulau Pangkor	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar

Table 8: How would you rate the travel destinations with respect to cost?

Travel	Νι	ume	erica	al So	cale													Travel
Destination																		Destination
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar
Ipoh	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Pulau Pangkor
Pulau Pangkor	9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Kuala Kangsar

#### **Data Analysis Tool**

Expert Choice software is Collaborative Decision Making tool that aids intuition research. It is a graphical-based structure that can apply judgement to objectives which in the end, produces the desired outcome. The benefit of adopting this software is that it does not only assist decision makers in making the best choice, but also provides a clear picture of that choice. This is true since the given results provide extra internal validity through visual integration in testing the sensitivity analysis.

Decision makers can use the AHP and Expert Choice software to break down a decision-making process into smaller parts. Starting with a specific goal, then moving on to objectives, sub-objectives, and finally the alternatives. To get at the overall priorities for the alternatives, basic pair-wise comparison judgement was applied throughout the process.

#### Conclusion

This study attempted to determine the travel criteria for selecting most preferred travel destinations in Perak. The points of interest in Perak were grouped into three destinations; Ipoh, the capital city of Perak, Pulau Pangkor, the jewel of Perak's nature enthusiasts and Kuala Kangsar, the royal capital of Perak. As for the criteria in this research, four main criteria were selected namely beauty, transport, cost, and accommodation. A set of questionnaire was designed to capture respondent's judgement. The results from the questionnaires will assist the following process in Analytical Hierarchy Process.

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