# **Bayesian Network Analysis with Odds Ratio for the Ouestionnaire Investigation on Tourists' Behavior under the View Point of Service Marketing**

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**Abstract:** Tourists from abroad are increasing rapidly in Japan. Kawazu town in Izu Peninsula is famous for its cherry trees. In the cherry blossom season, many tourists visit this town. The Kawazu Cherry Blossom Festival was carried out in February 2015. Our research investigation was performed during that period. In this paper, a questionnaire investigation is executed in order to clarify tourists' behavior, and to seek the possibility of developing regional collaboration among local government, tourism related industry and visitors. In this research, we construct the model utilizing Bayesian Network and causal relationship is sequentially chained by the characteristics of travelers, an objective to visit Izu Peninsula in Japan and the main occasion to visit them. We analyzed them by sensitivity analysis and odds ratio is calculated to the results of sensitivity analysis in order to obtain much clearer results. These are utilized for constructing a much more effective and useful tourism service. This analysis is well utilized in designing the strategy of service marketing for this. To confirm the findings by utilizing the new consecutive visiting records would be the future works to be investigated.

Key Words: Tourism, Izu Peninsula, Kawazu Cherry Tree, Bayesian Network, Service Marketing, odds ratio ------

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#### I. Introduction

In recent years in Japan, the national and local governments have been trying to attract foreign tourists by using strategic approaches and developing tourist facilities, with the aim of promoting regional exchange and generating economic benefits. Particular aims of local government are to overcome the common problems of an aging population and declining birthrate through tourism-generated income and to stimulate the local society through regional exchange and migration.

However, in order to take measures that will increase tourism, it is necessary to understand the attraction of particular regions in Japan, as well as the resources they offer to tourists. Moreover, it is necessary to have a picture of the tourists that might want to such regions.

Although it is useful to have an understanding of an issue at a given time and under specific social conditions, it is difficult to analyze chronological changes or cross-regional trends statistically. It is standard practice to design a survey such that it permits examination of the statistics for a given region over time, but in order to investigate solutions to problems shared across regions it is necessary to carefully examine the critical basic data as well as appropriate methods of data collection.

To try to obtain such data, preceding studies on tourist destinations that have statistically analyzed trends in tourist behavior will now be reviewed.

Yoshida et al. designed and conducted a visitor survey on the spot, which used a questionnaire to investigate the activities of visitors to the Ueno district in Taito ward, Tokyo. Doi et al. analyzed the image of the Izu Peninsula as a tourist destination in their 2003 study "Questionnaire Survey on the Izu Peninsula." Kano conducted tourist behavior studies in Atami city in 2008, 2009, 2014 and in other years.

In this paper, a questionnaire investigation was executed in Kawazu town in February 2015, which was conducted to coincide with events on the Izu Peninsula featuring flowers; the Kawazu Sakura Festival (Feb-Mar), and ways that regions can collaborate to carry out surveys of tourist behavior was also performed.

This survey of tourist behavior was carried out in February 2015, during the Kawazu Cherry Blossom Festival. Given the geographical peculiarities of Kawazu town and its relative lack of accommodation facilities, some of the survey personnel were located also at Izukyu-Inatori Station and Izukyu-Shimoda Station. On the first day of the survey, the weather was good, while on the second it was raining.

The 25th Kawazu Cherry Blossom Festival was held from February 10 to March 10, 2015. It was attended by 801,330 people, which was an increase of 9% over the previous year.

On the first day of the survey, 30-50% of the flowers were in bloom, and the nighttime illuminations lit up on the evening of the 21st. According to the figures of the Kawazu town Tourist Association, there were 30,590 visitors on the 21st and 20,913 visitors on the 22nd.

During the Kawazu Cherry Blossom Festival, around 150 stores were offering food & drink or souvenirs on the road with the row of cherry trees linked to Kawazu Station. A number of events were held during the festival, including the "Semi Gourmet" and "Izu no Odoriko Photography Event."

In recent years, the Bayesian network is highlighted because it has the following good characteristics (Neapolitan, 2004).

- Structural Equation Modeling requires normal distribution to the data in the analysis. Therefore, it has a limitation in making analysis, but the Bayesian network does not require a specific distribution type to the data. It can handle any distribution type.
- It can handle the data which include partial data.
- Expert's know-how can be reflected in building a Bayesian Network model.
- Sensitivity analysis can be easily performed by settling evidence. We can estimate and predict the prospective purchaser by that analysis.
- It is a probability model having a network structure. Related items are connected with directional link. Therefore, understanding becomes easy by its visual chart.

The field of service marketing generally handles the shapeless products.

Therefore it is often the case that it is hard to catch the influence to consumers.

Bayesian Network analysis enables to visualize the relationship and/or influence of shapeless products to consumers which is the field of service marketing.

These are also applied to service engineering.

In this paper, a questionnaire investigation is executed in order to clarify tourists' behavior, and to seek the possibility of developing regional collaboration among local government, tourism related industry and visitors. These are analyzed by using Bayesian Network. We analyzed them by sensitivity analysis and odds ratio is calculated to the results of sensitivity analysis in order to obtain much clearer results. The analysis utilizing Bayesian Network enabled us to visualize the causal relationship among items. Furthermore, sensitivity analysis brought us estimating and predicting the prospective visitors.

These are utilized for constructing a much more effective and useful tourism service. This analysis is well utilized in designing the strategy of service marketing for this.

The rest of the paper is organized as follows. Outline of questionnaire investigation is stated in section 2. In section 3, Bayesian Network analysis is executed which is followed by the sensitivity analysis in section 4. Conclusion is stated in section 5.

## II. Outline And The Basic Statistical Results Of The Questionnaire Research

#### 2.1 Outline of the Questionnaire Research

We make a questionnaire investigation on tourists' behavior who has visited Izu Peninsula and is studied mainly at Kawazu town in Shizuoka Prefecture. Kawazu town is famous for its cherry trees. The outline of questionnaire research is as follows. Questionnaire sheet is attached in Appendix 1.

(1) Scope of investigation

- : Tourists who have visited Kawazu town in Shizuoka Prefecture, Japan
- (2) Period
- : February 21,22/ 2015
- (3) Method
- : Local site, Dispatch sheet, Self writing
- (4) Collection
- : Number of distribution 500

Number of collection 478(collection rate 95.6%)

Valid answer 478

#### Basic Statistical Results

Now, we show the main summary results by single variable.

### • Characteristics of answers (Q4)

• Sex (O2)

Male 37.24%, Female 59.83%, (Not filled in 2.93%)

• Age (Q3)

 $10^{th}$  2.51%,  $20^{th}$  14.23%,  $30^{th}$  12.76%,  $40^{th}$  13.18%,  $50^{th}$  18.41%,  $60^{th}$  17.78%, More than 70 8.37%, (Not filled in 12.76%)

#### Occupation (Q4)

Independents 3.77%, Office worker 48.74%, Student 4.81%, Housewife 16.53%, No job 12.13% Miscellaneous 1.26%, (Not filled in 12.76%)

#### • Residence (Q1)

Tokyou 28.16%, Kanagawa 22.15%, Shizuoka 10.35%, Saitama 10.14%, Chiba 6.63%, Aichi 2.48%, Tochigi 2.48%, Ibaraki 1.86%, Gunma 1.24%, Yamanashi 1.24%, Osaka 0.83%, Nagano 0.83%, Gifu 0.62%, Fukushima 0.62%, Miyagi 0.62%, Else

#### • Fellow travelers (Q5)

Solo trip 3.35%, Couple 34.31%, Family 28.45%, Male's small group 3.77%, Female's small group 12.76%, Male and female's small group 7.95%, Group (More than 7) 7.53%, Miscellaneous 0.42%, (Not filled in 1.46%)

#### Figure 1. Fellow travelers

(6) Visiting frequency to Izu Peninsula and Kawazu Cherry Tree:

Izu Peninsula=1First time 18.62% 2Second times 11.09% 3Third times 9.83% 4Fourth times 5.86% (5Fifth~Nine times 15.90% 6More than ten times 37.66%, (Not filled in 1.05%)

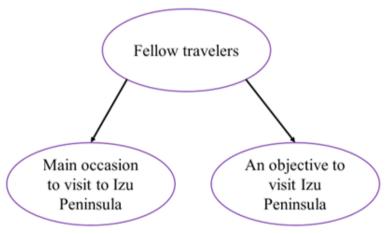
Kawazu Cherry Tree = First time 48.95% 2\$econd times 16.53% 3Third times 10.46% 4Fourth times 4.60% 5Fifth Nine times 6.07% 6More than ten times 7.74% 7Has not been there 3.97%, (Not filled in 3.97%)

Figure 2. Main occasion to visit to Izu Peninsula

Figure 3. An objective to Izu peninsula

#### III. Bayesian Network Analysis

In constructing Bayesian Network, it is required to check the causal relationship among groups of items. Based on this, a model is built as is shown in Figure 1.



**Figure 4.** A Built Model

We used BAYONET software (<a href="http://www.msi.co.jp/BAYONET/">http://www.msi.co.jp/BAYONET/</a>). When plural nodes exist in the same group, it occurs that causal relationship is hard to set a priori. In that case, BAYONET system set the sequence automatically utilizing AIC standard.

## IV. Sensitivity Analysis

Now, posterior probability is calculated by setting evidence as, for example, 1.0. Comparing Prior probability and Posterior probability, we can seek the change and confirm the preference for tourism. We set evidence to all parameters. Therefore the analysis volume becomes too large. In this paper, we pick up half of the total cases and make analysis. Nodes we analyze here are "Fellow travelers", "Main occasion to visit Izu Peninsula" and "An objective to visit Izu Peninsula". We prepare another paper for the latter half.

As stated above, we set evidence for each parameter, and the calculated posterior probability is exhibited in Appendix 2 which includes the calculation results of odds ratio. Here, we classify each item by the strength of the odds ratio.

- Very Strong (+++): Select major parameter of which the odds ratio is more than 10.0
- Strong (++): Select major parameter of which the odds ratio is more than 6.0
- Medium (+): Select major parameter of which the odds ratio is more than 4.0
- Weak: Else

Now we examine each for Very Strong, Strong and Medium case.

- **4.1** Sensitivity Analysis for "Fellow travelers"
- (1) Setting evidence to "Solo trip"

After setting evidence to "Solo trip", the result is exhibited in Table 1.

**Table 1** Setting evidence to "Solo trip" case

= 1 = 2 11 5 1 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	
Newspaper ad	+++
Magazine	+
Online lodging reservation site	++
Internet	+++
Budget	+++
Historic landmark, Literature monument, Construction	+++
Sightseeing facilities	++
Gallery, Museum	+++
Experience-based tourism	+++
Park	+++

We can observe that those who make Solo trip had come by the occasion of "Newspaper ad", "Magazine", "Online lodging reservation site" or "Internet" with an objective of visiting "(suitable) Budget", "Historic landmark, Literature monument, Construction", "Sightseeing facilities", "Gallery, Museum", "Experience-based tourism" or "Park".

(Very Strong part is indicated by bold character and Strong is indicated by italic.)

(2) Setting evidence to "Couple"

After setting evidence to "Couple", the result is exhibited in Table 2.

Table 2 Setting evidence to "Couple" case

	Tuble = Setting Cyladice to	C C upi	• • • • • • • • • • • • • • • • • • • •		
Newspaper	ad			+	l

We can observe that those who are Couple had come by the occasion of "Newspaper ad".

(3) Setting evidence to "Family"

There were only weak items.

(4) Setting evidence to "Male's small group"

After setting evidence to "Male's small group", the result is exhibited in Table 3.

**Table 3** Setting evidence to "Male's small group" case

Newspaper ad	+++
Online lodging reservation site	+
Stroll around town, Eating tour	++
Budget	+++
Convenience of traffic	++
Historic landmark, Literature monument, Construction	+++
Sightseeing facilities	++
Gallery, Museum	+++
Experience-based tourism	+++
Park	+++

We can observe that those who are Male's small group had come by the occasion of "Newspaper ad" or "Online lodging reservation site" with an objective of visiting "Stroll around town, Eating tour", "(suitable)Budget", "Convenience of traffic", "Historic landmark, Literature monument, Construction", "Sightseeing facilities", "Gallery, Museum", "Experience-based tourism" or "Park".

• Setting evidence to "Female's small group"

After setting evidence to "Male's small group", the result is exhibited in Table 4.

**Table 4** Setting evidence to "Female's small group" case

Newspaper ad	+
Budget	++
Gallery, Museum	++
Experience-based tourism	+
Park	+

We can observe that those who are Female's small group had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

(6) Setting evidence to "Male and female's small group"

After setting evidence to "Male's small group", the result is exhibited in Table 5.

**Table 5** Setting evidence to "Male and female's small group" case

Newspaper ad	+
Budget	+++
Gallery, Museum	+++
Experience-based tourism	+
Park	+

We can observe that those who are Male and female's small group had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

(7) Setting evidence to "Group (More than 7)"

After setting evidence to "Group (More than 7)", the result is exhibited in Table 6.

**Table 6** Setting evidence to "Group (More than 7)" case

Newspaper ad	++
Magazine	+
Budget	+++
Gallery, Museum	+++
Experience-based tourism	++
Park	++

We can observe that those who are Group (More than 7) had come by the occasion of "Newspaper ad" or "Magazine" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

- **4.2** Sensitivity Analysis for "Main occasion to visit to Izu Peninsula"
- (1) Setting Evidence to "Poster"

After setting evidence to "Poster", the result is exhibited in Table 7.

Table 7 Setting evidence to "Poster" case

Tuble / Betting evidence to 1 obter educe	
Newspaper ad	+
Budget	++
Gallery, Museum	++
Experience-based tourism	+
Park	+

We can observe that those who put main occasion to visit to Izu Peninsula as Poster had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

(2) Setting Evidence to "Brochure by tour company"

After setting evidence to "Brochure by tour company", the result is exhibited in Table 8.

**Table 8** Setting evidence to "Brochure by tour company" case

Newspaper ad	+
Budget	+++
Gallery, Museum	+++
Experience-based tourism	+
Park	+

We can observe that those who put main occasion to visit to Izu Peninsula as Brochure by tour company had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

## (3) Setting evidence to "TV program"

After setting evidence to "TV program", the result is exhibited in Table 9.

Table 9 Setting evidence to "Male's small group" case

Newspaper ad	+
Budget	++
Gallery, Museum	++
Experience-based tourism	+
Park	+

We can observe that those who put main occasion to visit to Izu Peninsula as TV program had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

#### (4) Setting Evidence to "Newspaper ad"

After setting evidence to "Newspaper ad", the result is exhibited in Table 10.

**Table 10** Setting evidence to "Newspaper ad" case

Solo trip	+
Online lodging reservation site	+
Budget	+++
Historic landmark, Literature monument, Construction	+
Gallery, Museum	+++
Experience-based tourism	++
Park	++

We can observe that "Those who put main occasion to visit to Izu Peninsula as Newspaper ad had come by "Solo trip" under the occasion of "Online lodging reservation site" with an objective of visiting "(suitable)Budget", "Historic landmark, Literature monument, Construction", "Gallery, Museum", "Experience-based tourism" or "Park".

#### (5) Setting Evidence to "Magazine"

After setting evidence to "Magazine", the result is exhibited in Table 11.

**Table 11** Setting evidence to "Magazine" case

Tuble 11 betting evidence to magazine case	
Newspaper ad	++
Budget	+++
Gallery, Museum	+++
Experience-based tourism	++
Park	++

We can observe that those who put main occasion to visit to Izu Peninsula as Tour package for Kawazu Cherry Tree by tour company had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

#### (6) Setting Evidence to "Tour package for Kawazu Cherry Tree"

After setting evidence to "Tour package for Kawazu Cherry Tree", the result is exhibited in Table 12.

**Table 12** Setting evidence to "Tour package for Kawazu Cherry Tree" case

Tubic 12 Setting Collection	o rour puonago for fra wazar enterry	1100 0000
Newspaper ad		+
Budget		+++
Gallery, Museum		+++
Experience-based tourism		+
Park		+

We can observe that those who put main occasion to visit to Izu Peninsula as Tour package for Kawazu Cherry Tree by tour company had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

## (7) Setting Evidence to "Online lodging reservation site"

After setting evidence to "Online lodging reservation site", the result is exhibited in Table 13.

**Table 13** Setting evidence to "Online lodging reservation site" case

Newspaper ad	++
Budget	+++
Gallery, Museum	+++
Experience-based tourism	++
Park	++

We can observe that "Those who put main occasion to visit to Izu Peninsula as Online lodging reservation site had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

#### (8) Setting Evidence to "Internet"

After setting evidence to "Internet", the result is exhibited in Table 14.

**Table 14** Setting evidence to "Internet" case

Solo trip	+	
Newspaper ad	+	+
Budget	+	++
Gallery, Museum	+	++
Experience-based tourism	+	
Park	+	

We can observe that those who put main occasion to visit to Izu Peninsula as Internet had come by Solo trip by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

#### (9) Setting Evidence to "Advice by family, acquaintance"

After setting evidence to "Advice by family, acquaintance", the result is exhibited in Table 15.

**Table 15** Setting evidence to "Advice by family, acquaintance" case

	<i>J</i> , 1
Newspaper ad	+
Magazine	+
Budget	+++
Gallery, Museum	+++
Experience-based tourism	+
Park	+

We can observe that those who put main occasion to visit to Izu Peninsula as Advice by family, acquaintance had come by the occasion of "Newspaper ad" or "Magazine" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

## (10) Setting Evidence to "Felt good at the previous visit"

After setting evidence to "Felt good at the previous visit", the result is exhibited in Table 16.

**Table 16** Setting evidence to "Felt good at the previous visit" case

Newspaper ad		+	
Budget		++	
Gallery, Museum		++	
Park		+	

We can observe that those who put main occasion to visit to Izu Peninsula as Felt good at the previous visit had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", or "Park".

#### V. Conclusion

In this paper, a questionnaire investigation is executed in order to clarify tourists' behavior, and to seek the possibility of developing regional collaboration among local government, tourism related industry and visitors. This survey of tourist behavior was carried out in February 2015, during the Kawazu Cherry Blossom Festival). The 25th Kawazu Cherry Blossom Festival was held from February 10 to March 10, 2015. It was attended by 801,330 people, which was an increase of 9% over the previous year. On the first day of the survey, 30-50% of the flowers were in bloom, and the nighttime illuminations lit up on the evening of the 21st. According to the figures of the Kawazu town Tourist Association, there were 30,590 visitors on the 21st and 20,913 visitors on the 22nd.

During the Kawazu Cherry Blossom Festival, around 150 stores were offering food & drink or souvenirs on the road with the row of cherry trees linked to Kawazu Station. A number of events were held during the festival, including the "Semi Gourmet" and "Izu no Odoriko Photography Event."

At around the same time (January 20 to March 31), the 18th "Hina no Tsurushikazari Festival" (Hanging Doll Festival) was held at Higashiizu town Inatori.

In order to look for policies for effective use of questionnaire surveys in tourist destinations, the present study reviewed preceding studies in the field. Moreover, an attempt was made to find possibilities for inter-regional cooperation based on the data.

In the Bayesian Network Analysis, model was built under the examination of the causal relationship among items. We analyzed them by sensitivity analysis and odds ratio was calculated to the results of sensitivity analysis in order to obtain much clearer results. The main result of sensitivity analysis is as follows.

We can observe that those who make Solo trip had come by the occasion of "Newspaper ad", "Magazine", "Online lodging reservation site" or "Internet" with an objective of visiting "(suitable) Budget", "Historic landmark, Literature monument, Construction", "Sightseeing facilities", "Gallery, Museum", "Experience-based tourism" or "Park".

We can observe that those who are Male's small group had come by the occasion of "Newspaper ad" or "Online lodging reservation site" with an objective of visiting "Stroll around town, Eating tour", "(suitable)Budget", "Convenience of traffic", "Historic landmark, Literature monument, Construction", "Sightseeing facilities", "Gallery, Museum", "Experience-based tourism" or "Park".

We can observe that "Those who put main occasion to visit to Izu Peninsula as Newspaper ad had come by "Solo trip" under the occasion of "Online lodging reservation site" with an objective of visiting "(suitable)Budget", "Historic landmark, Literature monument, Construction", "Gallery, Museum", "Experience-based tourism" or "Park".

We can observe that "Those who put main occasion to visit to Izu Peninsula as Online lodging reservation site had come by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

We can observe that those who put main occasion to visit to Izu Peninsula as Internet had come by Solo trip by the occasion of "Newspaper ad" with an objective of visiting "(suitable)Budget", "Gallery, Museum", "Experience-based tourism" or "Park".

Thus, we could obtain much more clearer results than those of the one obtained so far. This analysis is well utilized in designing the strategy of service marketing for this.

Although it has a limitation that it is restricted in the number of research, we could obtain the fruitful results.

In the future, it will be necessary to continue such surveys at various locations on the Izu Peninsula using a standardized set of questionnaire items and methods, and the efficacy of the study will have to be confirmed.

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## APPENDIX 1

## Questionnaire about the Tourism in Izu Peninsula

Please select the appropriate item in each column. Please write down the details in ( ).
Q1. Address: Prefecture ( )
⇒If the prefecture is Tokyo, Kanagawa, Shizuoka, then City (
Q2. <u>Sex</u> : 1Male 2Female
Q3. Age: 1)0th 220th 330th 44th 550th 660th 770~
Q4. Occupation: (1)Independents (2)Office worker (3)Student (4)Housewife (5)No job
6Miscellaneous ( )
Q5. Fellow travelers:
1\$olo trip 2Couple 3Family 4Male's small group 5Female's small group
6Male and female's small group (More than 7) 8Miscellaneous ( )
Q6. Visiting frequency to Izu Peninsula and Kawazu Cherry Tree:
Izu Peninsula=(1)First time (2)Second times (3)Third times (4)Fourth times (5)Fifth~Nine
times 6 More than ten times
Kawazu Cherry Tree = 1 First time 2 second times 3 Third times 4 fourth times
5)Fifth~Nine times 6)More than ten times
Q7. Means of transportation to IZU Peninsula:
1)R, Izu-kyuko train 2\sightseeing bus 3\rivate automobile 4\real Rent-a car 5\rightarrow 1\sightghat highway bus 6\shuttle
bus service by the hotel 7 Miscellaneous (
Q8. <u>Means of movement in Izu Peninsula</u> : (Plural answers allowed)
Walking Fixed-route bus Sightseeing bus Private automobile Skent-a car
6Taxi 7Miscellaneous (
→To whom who has selected ⑤ Starting point ( ) End point ( )
Q9. Main occasion to visit to Izu Peninsula (Plural answers allowed)
Poster Brochure by tour company 3TV program 4Newspaper ad 5Magazine
6 Tour package for Kawazu Cherry Tree 70 nline lodging reservation site 8 nternet 9 Advice by
family, acquaintance (Felt good at the previous visit (Miscellaneous (
Q10. What is an objective to visit Izu Peninsula? (Plural answers allowed)
1)Hot spring 2)Scenery, Nature 3Dish, sense of taste 4Flower of the season 5)Stroll around town, Eating tour 6Budget 7Convenience of traffic 8Historic landmark, Literature monument,
Eating tour Budget 70 onvenience of traffic 8 Historic landmark, Literature monument, Construction 9 sightseeing facilities 10 Gallery, Museum 1 experience-based tourism 12 ark
13 Miscellaneous (
Q11. Staying time in Izu Peninsula:
10 ne- day trip ( ) hour 22 days stay 33 days stay 4 More than 4 days
⇒If you have selected ② 4 please answer the following question.
(1) Staying type: (1) nn, Hotel (2) Resort house (3) second house (4) Relative's house (5) Miscellaneous (
)
(2)Use type of staying facilities: (1)Per night with dinner and breakfast (2)Per night with dinner (3)Per night
with breakfast (4)With no meals (5)Miscellaneous ( )
Q12. Where are you going to go in Izu Peninsula? **Place at which staying time is more than 30 minutes
★ Customer type ( ): A: One- day trip, Depart from Kawazu Cherry Tree B: One- day
trip, Depart from elsewhere except for Kawazu Cherry Tree C: Stay more than one night, Depart from
Kawazu Cherry Tree D: Stay more than one night, Depart from elsewhere except for Kawazu Cherry
Tree
Facilities to call at
$( ) \rightarrow ( ) \rightarrow ( ) ) \rightarrow ( ) ) \rightarrow ( ) \rightarrow ( ) \rightarrow ( ) ) \rightarrow ( ) \rightarrow ( ) \rightarrow ( ) ) \rightarrow ( ) \rightarrow ( ) ) \rightarrow ( ) \rightarrow $
Q13. Do you want to come to Izu Peninsula again?
Q13-A: (1) Want to come again (2) lightly want to come again (3) lightly do not want to come again (4) o
not want to come again ⇒To whom who has selected ①and ② What was good in Izu Peninsula?
→ 10 whom who has selected (Land (2) what was good in Izu Peninsula?

To whom who has selected 3and 4. What was not good in Izu Peninsula?
Q13-B: What season do you want to come to Izu Peninsula? (1) pring Month ( ) (2) ummer
Month ( ) 3 Autumn Month ( ) 4 Winter Month ( )
Q14. Select items in each theme concerning the attractiveness of southern part of Izu Peninsula. (Plura
answers allowed)
Theme 1"sea": (1)Sea bathing (2)Activities such as diving and fishing (3)Pleasure cruiser (4)Sunse
5Driving along the coastline 6Dpen- air bath where the visitor can see the sea 7Fresh products of the
sea
Theme 2"Hot spring": 1Feelings of the hot spring district 2 apanese-style hotel 30 pen- air bath
4Dinner in the hotel 5Hospitality
Theme 3"Nature": 1Flower of the season 2Hiking, stroll 3Geopark 4Experience-oriented program
5 Mount Fuji 6 Warm climate
Fheme 4"Culture": ①Temples and shrines ②Detter bearing the shogun's scarlet seal (Voucher seals of visit)
3\$troll around town 4Folk craft goods 5Local dishes
3\$troll around town 4Folk craft goods 5Local dishes
3\$troll around town 4Folk craft goods 5Local dishes
3\\$\troll around town 4\\$\text{Folk craft goods} \text{5}\text{Local dishes} \\ Miscellaneous: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [
3stroll around town 4Folk craft goods 5Local dishes Miscellaneous: [ ] [ ] [ ] 215. What do you want to be enhanced while travelling southern part of Izu Peninsula? (Plural answers allowed)  1Area map of southern part of Izu Peninsula 2Total WEB site 3Model tourism plan of southern part of Izu
3\text{stroll around town 4\text{Folk craft goods 5\text{Local dishes}}  Miscellaneous: \begin{align*} a
3\text{stroll around town 4\text{Folk craft goods 5\text{Local dishes}} \text{Miscellaneous: \begin{align*} \be
3stroll around town 4Folk craft goods 5Local dishes Miscellaneous: [ ] [ ] [ ] 215. What do you want to be enhanced while travelling southern part of Izu Peninsula? (Plural answers allowed)  1Area map of southern part of Izu Peninsula 2Total WEB site 3Model tourism plan of southern part of Izu Peninsula 4Tourism information for driving 5Information for the landing-type tourism such as experience passed plan 6Information about restaurant and shop 7Enhancement of alternative traffic and their information 3Miscellaneous (
38troll around town 4Folk craft goods 5Local dishes Miscellaneous: [ ] [ ] [  Q15. What do you want to be enhanced while travelling southern part of Izu Peninsula? (Plural answers allowed)  1Area map of southern part of Izu Peninsula 2Total WEB site 3Model tourism plan of southern part of Izu Peninsula 4Tourism information for driving 5Information for the landing-type tourism such as experience passed plan 6Information about restaurant and shop 7Enhancement of alternative traffic and their information allowed 1 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [
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38troll around town 4Folk craft goods 5Local dishes Miscellaneous: [ ] [ ] [  Q15. What do you want to be enhanced while travelling southern part of Izu Peninsula? (Plural answers allowed)  1Area map of southern part of Izu Peninsula 2Total WEB site 3Model tourism plan of southern part of Izu Peninsula 4Tourism information for driving 5Information for the landing-type tourism such as experience passed plan 6Information about restaurant and shop 7Enhancement of alternative traffic and their information allowed 1 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [
3\text{stroll around town 4\text{Folk craft goods 5\text{Local dishes}} \text{Miscellaneous: \begin{align*} \be
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3\text{stroll around town 4\text{Folk craft goods 5\text{Local dishes}} \text{Miscellaneous: \begin{align*} \be

## APPENDIX 2

Calculated posterior probability

ated poster	,		Fellow trave	lers .									
name	state	Prior	Salo trip	Solo trip_odds	Couple	Couple_odd s	Family	Family_odd s	Male's small group	Male's small group_odds	Female's small group	Female's small group_odds	
	Salo trip	0.024	1	-	0	-	0	-	0	-	0	-	
	Couple	0_337	0	-	1 -		0	-	0	-	0	-	
	Family 0.353		0	-	0	-	1	-	0	-	0	-	
Fellow travelers	Male's small group	0.04	0	-	0	-	0	-	1	-	0	-	
	Female's small group	0.099	0	-	0	-	0	-	0	-	1	-	
	Male and female's small group	0.083	0	-	0	-	0	-	0	-	0	-	
	Group (More than 7)	0.056	0	-	0	-	0	-	0	_	0	-	
	Poster	0.087	0.25	3.498	0.126	1.513	0.11	1.297	0.083	0.950	0.111	1.310	
	Brochine by tour company	0.11	0.125	1.156	0.115	1.051	0.121	1.114	0.167	1.622	0.111	1.010	
	TV program	0.087	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	
	Newspaper ad	0.008	0.125	17.714	0.034	4.364	0.011	1.379	0.083	11.224	0.037	4.764	
Main occasion to visit to Izu	Magazine	0.028	0.125	4.959	0.046	1.674	0.033	1.185	0.083	3.142	0.074	2.774	
Peninsula	Tour package for 0.059 Kawazu		0.125	2.278	0.08	1.387	0.077	1.331	0.083	1.444	0.037	0.613	
	Online lodging reservation	0.02	0.125	7.000	0.057	2.962	0.011	0.545	0.083	4.435	0.074	3.916	
	Internet	0.079	0.375	6.995	0.126	1.681	0.077	0.973	0.083	1.055	0.074	0.932	
	Advice by family, acquaintanc	0.181	0.25	1.508	0.115	0.588	0.187	1.041	0.25	1.508	0.259	1.582	
	Felt good at the previous visit	0.244	0.25	1.033	0.253	1.049	0.275	1.175	0.25	1.033	0.222	0.884	
	Hot spring	0.445	0.625	2.079	0.552	1.537	0.352	0.677	0.5	1.247	0.407	0.856	
	Scenery, Nature	0.24	0.5	3.167	0.244	1.022	0.264	1.136	0.25	1.056	0.296	1.331	
	Dish, sense of taste	0.295	0.125	0.341	0.287	0.962	0.264	0.857	0.5	2.390	0.407	1.640	
	Flower of the season	0.669	0.375	0.297	0.701	1.160	0.703	1.171	0.417	0.354	0.667	0.991	
	Stroll around town, Eating	0.059	0.125	2.278	0.103	1.831	0.033	0.544	0_333	7.963	0.111	1.991	
An objective to visit Izu Peninsula	Budget	0.004	0.125	35.571	0.011	2.769	0.011	2.769	0.167	49.920	0.037	9.567	
VER IM FURNISA	Convenienc e of traffic	0.059	0.125	2.278	0.08	1.387	0.044	0.734	0_333	7.963	0.074	1.275	
	Historic landmark, Literature	0.02	0.25	16.333	0.034	1.725	0.011	0.545	0.25	16.333	0.037	1.883	
	Sightseeing facilities	0.051	0.25	6.203	0.023	0.438	0.066	1.315	0.333	9.290	0.074	1.487	
	Gallery, Museum	0.004	0.125	35.571	0.011	2.769	0.011	2.769	0.167	49.920	0.037	9.567	
	Experience- based tourism	0.008	0.125	17.714	0.011	1.379	0.011	1.379	0.167	24.860	0.037	4.764	
	Park	0.008	0.125	17.714	0.023	2.919	0.011	1.379	0.167	24.860	0.037	4.764	

				Main occas	ion to visit to	Izu Peninst	ila						
Male and female's small group	Male and female' s small group odds	Group (More than 7)	Group(More than 7)_odds	Poster	Poster_odd s	Brochure by tour company	Brochure by tour company_odds	TV program	TV program_odds	Newspaper ad	Newspaper ad_odds	Magazine	Magazine_ odds
0	-	0	-	0.06	2.596	0.026	1.086	0.027	1.128	0.094	4.219	0.062	2.688
0	-	0	-	0.375	1.180	0.295	0.823	0_331	0.973	0.317	0.913	0.278	0.758
0	-	0	-	0.341	0.948	0_324	0.878	0_346	0.970	0.106	0.217	0.209	0.484
0	-	0	-	0.032	0.793	0.055	1.397	0.042	1.052	0.098	2.608	0.064	1.641
0	-	0	-	0.1	1.011	0.086	0.856	0.1	1.011	0.103	1.045	0.135	1.420
1	-	0	-	0.033	0.377	0.086	1.040	0.085	1.026	0.102	1.255	0.067	0.793
0	-	1	-	0.032	0.557	0.084	1.546	0.058	1.038	0.100	1.873	0.132	2.564
0.043	0.472	0.063	0.706	1	-	0.114	1.350	0.111	1.310	0.125	1.499	0.118	1.404
0.13	1.209	0.188	1.873	0.132	1.230	1	-	0.129	1.198	0_161	1.553	0.151	1.439
0.094	1.089	0.094	1.089	0_094	1.089	0.094	1.089	1	-	0.094	1.089	0.094	1.089
0.043	5.572	0.063	8.337	0.041	5.301	0.045	5.843	0.036	4.631	1.000	-	0.054	7.078
0.043	1.560	0.125	4.959	0.058	2.137	0.064	2.374	0.055	2.020	0.083	3.142	1.000	-
0.087	1.520	0.188	3.693	0.086	1.501	0.094	1.655	0.085	1.482	0.105	1.871	0.100	1.772
0.043	2.202	0.063	3.295	0.053	2.742	0.055	2.852	0.047	2.417	0.078	4.145	0.066	3.463
0.043	0.524	0.125	1.665	0_118	1.560	0_108	1.412	0.103	1.339	0.136	1.835	0.122	1.620
0.304	1.976	0.375	2.715	0.191	1.068	0.217	1.254	0.199	1.124	0.240	1.429	0.234	1.382
0.304	1.353	0.063	0.208	0.252	1.044	0.245	1.005	0.251	1.038	0.237	0.962	0.231	0.931
0.391	0.801	0.438	0.972	0.455	1.041	0.437	0.968	0.444	0.996	0.465	1.084	0.450	1.020
0.261	1.118	0.188	0.733	0.271	1.177	0.259	1.107	0.262	1.124	0.273	1.189	0.265	1.142
0.391	1.534	0.25	0.797	0.296	1.005	0.313	1.089	0.305	1.049	0.327	1.161	0.316	1.104
0.696	1.133	0.563	0.637	0.653	0.931	0.643	0.891	0.664	0.978	0_589	0.709	0.616	0.794
0.043	0.717	0.063	1.072	0.089	1.558	0.092	1.616	0.084	1.463	0.123	2.237	0.104	1.851
0.043	11.188	0.063	16.742	0.035	9.031	0.043	11.188	0.032	8.231	0.067	17.881	0.053	13.936
0.043	0.717	0.125	2.278	0.083	1.444	0.091	1.597	0.08	1.387	0_119	2.154	0.103	1.831
0.043	2.202	0.063	3.295	0.053	2.742	0.057	2.962	0.046	2.363	0.095	5.144	0.073	3.859
0.043	0.836	0.125	2.658	0.076	1.531	0.085	1.729	0.072	1.444	0.115	2.418	0.100	2.068
0.043	11.188	0.063	16.742	0.035	9.031	0.043	11.188	0.032	8.231	0.067	17.881	0.053	13.936
0.043	5.572	0.063	8.337	0.035	4.497	0.043	5.572	0.032	4.099	0.067	8.905	0.053	6.940
0.043	5.572	0.063	8.337	0.039	5.032	0.046	5.979	0.036	4.631	0.071	9.477	0.056	7.356

										An objectiv	e to visit Izu	Peninsula.	
Tour package for Kawazu Cheny Tree	Tour package for Kawazu Cherry Tree odds	Online lodging reservation site	Online lodging reservation site odds	Internet	Internet_od ds	Advice by family, acquaintance	Advice by family, acquaintance_od ds	Felt good at the previous visit	Felt good at the previous visit odds	Hot spring	Hot spring_odd s	Scenery, Nature	Scenery, Nature_odd s
0.04	1.694	0.071	3.108	0.098	4.418	0.034	1.431	0.027	1.128	0.038	1.606	0.051	2.185
0.313	0.896	0.402	1.323	0.405	1.339	0.191	0.464	0.334	0.987	0.411	1.373	0.309	0.880
0.314	0.839	0.08	0.159	0.258	0.637	0.325	0.882	0.38	1.123	0.274	0.692	0.349	0.983
0.042	1.052	0.075	1.946	0.034	0.845	0.053	1.343	0.042	1.052	0_048	1.210	0.04	1.000
0.044	0.419	0.157	1.695	0.072	0.706	0.13	1.360	0.089	0.889	0.092	0.922	0.113	1.159
0.087	1.053	0.078	0.935	0.036	0.413	0.129	1.636	0.103	1 269	0.075	0.896	0.084	1.013
0.127	2.452	0.076	1.387	0.07	1.269	0.109	2.062	0.014	0.239	0.057	1.019	0.041	0.721
0.113	1.337	0.124	1.485	0_128	1.540	0.107	1.257	0.112	1.324	0_114	1.350	0.115	1.364
0.143	1.350	0.15	1.428	0.135	1.263	0.141	1.328	0.126	1.166	0_127	1.177	0.128	1.188
0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089
0.045	5.843	0.059	7.775	0.047	6.115	0.043	5.572	0.034	4.364	0.038	4.898	0.038	4.898
0.065	2.413	0.076	2.855	0.065	2.413	0.064	2.374	0.05	1.827	0.055	2.020	0.056	2.059
1	-	0.096	1.694	0.093	1.635	0.093	1.635	0.081	1.406	0.085	1.482	0.084	1.463
0.053	2.742	1	-	0.059	3.072	0.053	2.742	0.045	2.309	0.051	2.633	0.049	2.525
0.114	1.500	0.13	1.742	1	-	0.102	1.324	0.101	1.310	0.11	1.441	0.109	1.426
0.217	1 254	0.221	1 284	0.197	1.110	1	-	0.192	1.075	0_191	1.068	0.2	1.131
0.238	0.968	0.239	0.973	0.244	1.000	0.242	0.989	1	-	0.249	1.027	0.253	1.049
0.445	1.000	0.475	1.128	0.473	1.119	0.426	0.926	0.441	0.984	1	-	0.446	1.004
0.257	1.095	0.27	1.171	0.275	1.201	0.262	1.124	0.264	1.136	0.262	1.124	1	-
0.299	1.019	0.327	1.161	0.288	0.967	0.317	1.109	0.306	1.054	0.303	1.039	0.303	1.039
0.642	0.887	0.613	0.784	0.635	0.861	0.642	0.887	0.67	1.005	0.661	0.965	0.659	0.956
0.087	1.520	0.119	2.154	0.095	1.674	0.087	1.520	0.083	1.444	0.091	1.597	0.085	1.482
0.041	10.645	0.056	14.771	0.041	10.645	0.043	11.188	0.03	7.701	0.032	8.231	0.034	8.764
0.089	1.558	0.109	1.951	0.09	1.577	0.088	1.539	0.077	1.331	0_084	1.463	0.08	1.387
0.056	2.907	0.08	4.261	0.065	3.406	0.056	2.907	0.044	2.255	0.05	2.579	0.051	2.633
0.083	1.684	0.097	1.999	0.085	1.729	0.088	1.795	0.069	1.379	0.072	1.444	0.076	1.531
0.041	10.645	0.056	14.771	0.041	10.645	0.043	11.188	0.03	7.701	0.032	8.231	0.034	8.764
0.041	5.301	0.056	7.356	0.041	5.301	0.043	5.572	0.03	3.835	0.032	4.099	0.034	4.364
0.044	5.707	0.061	8.055	0.046	5.979	0.046	5.979	0.034	4.364	0.037	4.764	0.037	4.764

	Dish, sense		Flower of	Stroll	Stroll around				Convenience	Historic	Historic landmark,					Experience-	Experience-		
Dish, sense of taste	of taste odds	Flower of the season	the season odd	around town, Eating	town, Eating tour odds	Budget	Budget_odd s	e of traffic	of traffic odds	landmark, Literature	Literature monument, Construction odds	Sightseeing facilities	Sightseeing facilities_odds	Gallery, Museum	Gallery, Museum_odds	based tourism	based tourism odds	Park	Park_odds
0.011	0.452	0.015	0.619	0.04	1.694	0.106	4.822	0.042	1.783	0.145	6.897	0.093	4.170	0.164	7.978	0.106	4.822	0.094	4.219
0.312	0.892	0.349	1.055	0.406	1.345	0.119	0.266	0.331	0.973	0.246	0.642	0.105	0.231	0.017	0.034	0.119	0.266	0.213	0.532
0.299	0.782	0.367	1.063	0.135	0.286	0.119	0.248	0.189	0.427	0.082	0.164	0.315	0.843	0.049	0.094	0.119	0248	0.107	0.220
0.069	1.779	0.027	0.666	0.167	4.812	0.221	6.809	0.175	5,091	0.228	7.088	0.195	5.814	0.458	20.280	0.221	6.809	0.198	5.925
0.134	1.408	0.1	1.011	0.132	1.384	0.116	1.194	0.092	0.922	0.08	0.791	0.102	1.034	0.053	0.509	0.116	1.194	0.104	1.056
0.109	1.352	0.089	1.079	0.044	0.508	0.115	1.436	0.046	0.533	0.079	0.948	0.051	0.594	0.031	0.353	0.115	1.436	0.103	1 269
0.047	0.831	0.049	0.869	0.043	0.757	0.113	2.148	0.09	1.667	0.078	1.426	0.1	1.873	0.088	1.627	0.113	2.148	0.101	1.894
0.108	1.271	0.11	1.297	0_118	1.404	0.121	1.445	0.114	1.350	0.128	1.540	0.117	1.391	0.134	1.624	0.121	1.445	0.121	1.445
0.132	1.230	0.125	1.156	0.141	1.328	0.173	1.693	0.146	1.383	0.159	1.530	0.151	1.439	0.201	2.035	0.173	1.693	0.166	1.610
0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089	0.094	1.089
0.039	5.032	0.032	4.099	0.052	6.802	0.076	10.199	0.053	6.940	0.073	9.765	0.057	7.495	0.104	14.393	0.076	10.199	0.072	9.621
0.057	2.098	0.051	1.866	0.068	2.533	0.091	3.475	0.07	2.613	0.086	3.266	0.075	2.815	0.112	4.378	0.091	3.475	0.087	3.308
0.083	1.444	0.082	1.425	0.087	1.520	0.109	1.951	0.094	1.655	0.103	1.831	0.097	1.713	0.12	2.175	0.109	1.951	0.106	1.891
0.051	2.633	0.044	2.255	0.067	3.519	0.083	4.435	0.064	3.350	0.082	4.377	0.063	3.295	0.106	5.810	0.083	4.435	0.08	4.261
0.098	1.267	0.099	1.281	0.116	1.530	0.133	1.788	0.116	1.530	0.145	1.977	0.121	1.605	0.157	2.171	0.133	1.788	0.132	1.773
0.207	1.181	0.193	1.082	0.204	1.160	0.27	1.674	0.217	1 254	0.242	1.445	0.242	1.445	0.293	1.875	0.27	1.674	0.254	1.541
0.252	1.044	0.253	1.049	0.245	1.005	0.235	0.952	0.239	0.973	0.24	0.978	0.239	0.973	0.235	0.952	0.235	0.952	0.237	0.962
0.441	0.984	0.442	0.988	0.478	1.142	0.449	1.016	0.466	1.088	0.482	1.161	0.439	0.976	0.465	1.084	0.449	1.016	0.46	1.062
0.259	1.107	0.259	1.107	0.263	1.130	0.277	1.213	0.26	1.113	0.286	1.268	0.276	1.207	0.289	1.287	0.277	1 213	0.273	1.189
1	-	0.302	1.034	0.339	1.226	0.355	1.315	0.333	1.193	0.338	1.220	0.329	1.172	0.393	1.547	0.355	1.315	0.348	1 276
0.658	0.952	1	-	0.615	0.790	0.543	0.588	0.606	0.761	0.547	0.597	0.581	0.686	0.44	0.389	0.543	0.588	0.56	0.630
0.094	1.655	0.078	1.349	1	-	0.151	2.837	0.131	2.404	0.155	2.926	0.127	2.320	0.224	4.604	0.151	2.837	0.146	2.727
0.037	9.567	0.026	6.647	0.057	15.051	1	-	0.06	15.894	0.087	23.727	0.071	19.030	0.141	40.872	0.092	25.229	0.083	22.538
0.088	1.539	0.073	1.256	0.125	2.278	0.152	2.859	1	-	0.152	2.859	0.131	2.404	0.228	4.710	0.152	2.859	0.144	2.683
0.052	2.688	0.038	1.936	0.085	4.552	0.126	7.064	0.088	4.728	1	-	0.101	5.505	0.2	12.250	0.126	7.064	0.116	6.430
0.078	1.574	0.063	1.251	0.109	2.276	0.161	3.571	0.118	2.489	0.158	3.492	1	-	0.063	1.251	0.161	3.571	0.146	3.181
0.037	9.567	0.026	6.647	0.057	15.051	0.092	25.229	0.06	15.894	0.087	23.727	0.071	19.030	1	-	0.092	25.229	0.083	22.538
0.037	4.764	0.026	3.310	0.057	7.495	0.092	12.564	0.06	7.915	0.087	11.816	0.071	9.477	0.141	20.354	1	-	0.083	11 224
0.041	5.301	0.03	3.835	0.062	8.196	0.093	12.714	0.064	8.479	0.089	12.114	0.072	9.621	0.142	20.522	0.093	12.714	1	-

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