

### **An empirical investigation on tourism attractive destinations and spatial behavioral tourist pattern analysis in Tehran**

#### **Abstract**

Cities are important tourist destinations and tourism has affected the urban environment. Urban tourism space is where tourism resources are located. The behavioural pattern of tourists also subordinates of tourism resources. Therefore, behavioural geography explains the spatial patterns of the behaviour of tourists as a cognitive-perceptual process. Why do people travel to the cities? Which place do the tourists choose to visit? Which ways do they choose to reach attractions? What do they do with a tourism destination? These questions are issues about geographic behaviour. The behavioural school has attended to areas such as mental maps of behaviour, spatial behaviour of tourism, and perception of the environment. The main objective of this research is identifying the spatial behaviour of tourists in Tehran. In this research, we tried to give a spatial picture of the behaviour of tourists in Tehran. This picture is based on three main goals: the recognition of the main entrance of Tehran, the identification of the important tourist destinations in Tehran and the identification of the major destinations for tourists in Tehran. The research method is descriptive-analytic and used secondary data, which are available in different reports, drafts, and related institutes and questionnaire to collect the research data. The research results show that the behaviour pattern of foreign tourists depends on tourism resources. These tourism resources are located in the central part of Tehran. In addition, the south entrance of the city (Imam Khomeini airport) is the most important entrances for foreign tourists and transporting pattern is from the south to the centre and north of Tehran. Since Tehran city has located between ways so stopping time is short in this city. In other words, visiting the city's attractions has focused on the type of historical-cultural tourism in the central part of Tehran .

Keywords: Spatial Pattern, Urban Space, Tourist Destinations, Spatial Behavior, Tehran.

#### **Introduction**

The number of people who take a trip from one point in this world to the other side is significant. These people do not carry themselves as a person; indeed, they are causes

of many changes in the destination point and in the world. In 2011 and for the first time the tourism industry makeover USD 1,030 billion. Therefore, geography has the most

contribution to the tourism industry and it seems there is a high correlation between geography and tourism. The tourism geography is the very sophisticated topic in geography and it is combined with theoretical and conceptual research and as a result of both of them, an applied study (Williams and Lew, 2014). The tourism destination attraction has been an important issue in urban tourism studies (Nekooee et al., 2011) which is cause of many negative and positive impacts. Ignoring all tourism effective factors in urban planning endangers the success of tourist travel by affecting on travel quality (Razavi et al., 2017). This considerable part of travel is those spaces that tourist is willing to visit if any physical or human barriers causes the tourist does not reach to the destination it is meant failure urban tourism planning. The spatial pattern of tourist destinations at an urban landscape may have various pattern, which forms under the certain spatial process at a given time and a given space (Niknami & Amirkhiz, 2008). Many factors involve making a tourism destination attractive, some qualities such as flexibility, functional diversity, physical diversity, vegetation, safety, lightening, landscape attractiveness, identity, and memorability in relation to the urban space, and social and arbitrary activities. Tourism is a geographic phenomenon that focuses on the movement of people, goods and services over time and places, and their focus is on providing a good understanding of the patterns of tourism activities. Analysis of the behavioural patterns of tourists is less evident in geographic analysis. Planning for the development of tourism activities begins by understanding the nature and patterns of tourism behaviour (Ziaee and Ahmadi, 2012). Cities in developing countries are the tourist entrance gate and that is so important to understand what kinds of goods the city offers to the tourist before analyzing the tourism behaviour. By better words, what a city a tourist destination has to offer to the tourists. The relation between what tourists have made in his/her mind and tourist destination in the city shows draws the pattern of tourist spatial behaviour pattern. Tourist attraction places distribution in the city will provide a clear

understanding to know what is more interesting for tourists (Seifoddini-Faranak et al., 2009). Awareness of the movement of tourists in urban space, according to the number and in what period of time, and to which parts of the city are going, make a pattern like the footprint of people in a snowy day showing their course of movement in urban spaces. The location of tourism infrastructure and planning to provide tourism services and facilities, the allocation of walkways for walking and providing areas with a beautiful view of the need for awareness of the pattern of behaviour of tourists. Culture is effective in behavioural patterns, and behavioural patterns determine and illustrate how people use tourist spheres. Hence, in tourism psychology, the behaviour of tourists and the causes of motivations that determine these behaviours are studied (Debbagh, 1991). The purpose of this study is to identify and review the behaviour patterns of tourists in Tehran and to map the map of the space travel of tourists and discover the dominant spatial patterns in Tehran's urban spaces. By recognizing the pattern of the spatial behaviour of tourists, we are looking for factors influencing the formation of this pattern. Which of the tourism resources has a greater role in the tourism pattern of Tehran? Discuss the circulation routes and spaces used by tourists in relation to the spatial structure of the city of Tehran from a spatial perspective. The tourism spatial pattern analysis is key to have a better plan in urban areas. Accurate research about tourism travel pattern in city links to the most visited tourist areas is very helpful for national and regional tourism planning. Tourist has a desire to see some specific places, which are very common among tourists. Based on climate, latitude, altitude, cultural, social, economic, and geographical features the tourists show interest and create different routes in the city. Since, after the revolution in Iran, the previous spaces (e.g. bar, clubs, discos, and casino) in the city are dead and there is a heavy restriction on alcohol and drugs. The tourist spatial behaviour pattern in the city has changed and they are looking for the cultural and socioeconomic side of tourism (Bartosiewicz & Pielesiak 2019).

**Table 1.** Negative and positive sociocultural effects of tourism.

Effective factors	Positive impacts	Negative impacts
Using culture as an attraction	<ul style="list-style-type: none"> <li>● Increase of supporting the traditional culture.</li> <li>● Introducing the ethnic identity.</li> <li>● Revival the traditional arts and rites.</li> <li>● Revival the local language and literature</li> </ul>	<ul style="list-style-type: none"> <li>● Changes in the traditional arts due to the tourists' tastes</li> <li>● Influencing the privacy of traditional areas</li> <li>● Crowdedness in the traditional place</li> <li>● Commercialization of the cultural products</li> </ul>
Direct contact between tourists and local people	<ul style="list-style-type: none"> <li>● Reduction of the negative behavioral representations</li> <li>● Increase of the social opportunities</li> </ul>	<ul style="list-style-type: none"> <li>● Reinforcement of the negative behavioral representations</li> <li>● Outbreak of new diseases</li> <li>● Increase of the population density and crowdedness</li> </ul>
Changes of social roles and jobs	<ul style="list-style-type: none"> <li>● Emergence of new jobs</li> <li>● Reduction of social inequities</li> </ul>	<ul style="list-style-type: none"> <li>● Increase of social conflicts</li> <li>● Increase of social inequities</li> <li>● Destruction of local languages and accents</li> </ul>
Development of tourism bodies	<ul style="list-style-type: none"> <li>● Increase of recreational facilities</li> <li>● Increase of the accessibility facilities</li> </ul>	<ul style="list-style-type: none"> <li>● Limitedness of the local people's accesses</li> <li>● Increase of the bureaucracy</li> </ul>
Population increase due to the tourism development	<ul style="list-style-type: none"> <li>● Increase of the quality and quantity of welfare facilities</li> <li>● Increase of the quality of life</li> </ul>	<ul style="list-style-type: none"> <li>● Increase of the crowdedness and population mix</li> <li>● Increase of the crimes</li> </ul>

Source: Razavi et al., 2017; World Tourism Organization, 1999: 328

### Common perspectives and theories

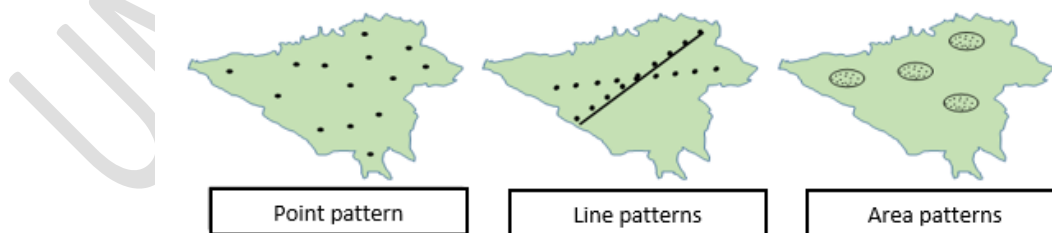
Mobility of phenomena in space is carried out by means of exchange, deformation, transference, which represents the flow of raw materials, energy, movements and displacement of population, capital and tourists, and so on. Basically,

communication patterns and urban currents are the creators of the dynamics of the structure and organization of space. Urban tourism is creating its own spatial behavior pattern, including the influential currents in space and space organization of the city. In the field of space tourism, tourism refers to a sequence of attractions visited by tourists in geographic space and a sequence of movements in that

geographic space from attraction to gravity. (Xia, 2007). The behavior of the tourists' space can be examined at different geographical levels. However, the number of criteria that will involve in different level of decision-making is different. The degree of importance and influence of each criterion will change due to the scale. Researchers and urban planners consider the spatial behavior of tourists as a discrete range of movements between stops and tourist sites. (Xia et al., 2011). Behaviorism and the emergence of the geographic school of spatial behavior in 1952, is with the link between geography and the Gestalt Psychology School were developed by William Kirk. He believed that "what we need in our thoughts so that we can cover nature and humanity under a scientific discipline can only be achieved by adopting the Gestalt psychology field. In fact, after the introduction of geography into the Gestalt School of Psychology studies, the spatial perspective in geography was recognized as the Space Behavior School (Farid, 2001). In terms of spatial, tourism is a kind of mobility between the source and destination of the link between tourism supply and demand. The quality of this is where indicators such as safety, speed and travel costs (Akbari, 2015) measure the space. Cities as one of the major tourist destinations are among the new phenomena that underlie a range of social,

cultural and economic behaviors with regard to urban characteristics. One of the phenomena that affect the city's spatial patterns is urban tourism. Tourism is carried out within the framework of certain spatial patterns. Urban areas are often considered as important volunteering destinations due to historical and cultural attractions. Cities usually have diverse attractions such as museums, monuments and historic sites attracting many tourists (Hall, 2001). The behavioral pattern of tourists in the city is a function of urban spatial patterns that are defined as attraction, urban services, and social and economic communication (Movahed, 2015). Each spatial pattern is the result of human decisions; of course, the decisions and functions of man are related to the type of perception of being, thought, belief, institutions, and the structure of society and their needs (Movahed, 2015).

Figure 1 shows how is the relation between the tourist spatial behavior pattern and the type of locations that tourists prefer to visit. If the tourist destination were spattered in different places in the city, it will be like a point pattern. If the points queue up on a line and they stand back to back it will be like line patterns. At the end is a tourist when a tourist looks for an area to visit (e.g. park, or specific urban area) which are not like a point on the map they will form area patterns.

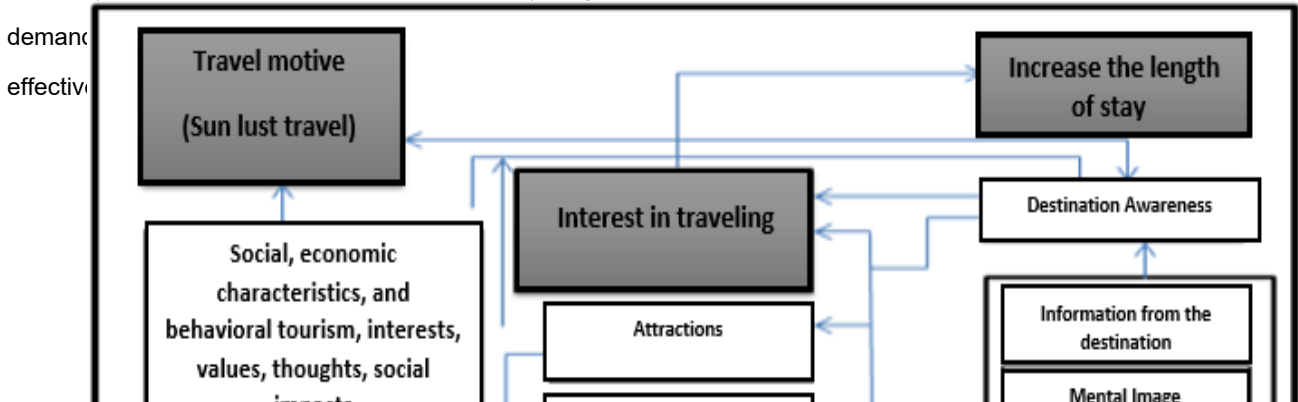


The spatial behavior of people is largely influenced by the mental images of the environment. The environmental structure greatly affects the orientation of people among buildings - neighborhoods, and cities. The path to some

environments is easier than in other environments. Social and psychological aspects of navigation are important factors in the sense of individual security. (John Lang, 2011). Each travel destinations has a specific weight in the tourist mind.

Geographically, even in the most biodiversified places in the world the human involvements can create a different perspective and feature and attract the different number of people. Human involvement in environment and city spaces can cause a positive spatial autocorrelation the locations, which are tourist destinations. What the city spaces provide for visitors is due to the due to ecological spatial processes (e.g., species dispersal, competition for space and resources) or by spatial dependence due to (positive or negative) species responses to underlying environmental conditions (Wagner& Fortin 2005). The ecological foundations in different scales make different spatial behavior pattern it can be described with the interaction between structure and functioning (Antrop, 2000). Spatial structure due to ecological spatial processes and spatial dependence affects spatial statistics, landscape metrics, and statistical modeling of the species-environment correlation (Wagner& Fortin 2005) .

Figure 2 shows the factors influencing the behavior pattern of tourists. Motivational factors for starting a trip, effective factors during travel and factors affecting the tourist after the trip. The ability of a tourist to understand a destination and choose what activities to do is very personal. Of course, the issue to be addressed is external influences. And the advice of those who speak with us on this travel destination can have a great influence on the behavior of the tourist(Fodness & Brian 1997). According to Seaton et al., Understanding the reputation of a destination represents another set of tourist movements that affect these kinds of behaviors. (Seaton, Bennett et al., 1996). Although placing an attraction in a hierarchy of places is often based on the ability to generate demand



## Introduction of the studied case area

Tehran is the capital of the province and the capital of Iran. Agha Mohammad Khan is the founder of the Qajar dynasty in Nowruz 1200 AD. After gaining power, he chose Tehran as the capital of Iran. History of Tehran follows the history of the city of Rey. The new Tehran was formed in the 16th century during Safavid dynasty.

Famous attractions of Tehran include Golestan Palace, Madrasa DaralFonoon, the beautiful and elegant monument of the National Garden, Ghat Sadabad, Niavaran Palace, Jamaran, Tehran Market, Ancient Iran Museums, Islamic Iran, Anthropology, Carpet, Contemporary Art, Arts, Glassware The Library and Museum of Property and Wildlife and many other museums in Tehran are among its attractions. From the attractions of pilgrimage to the tomb of Hazrat Abdul Azim in Ray, Imamzadeh Saleh in Tajrish, Imamzadeh Davood in the north, and also the Imam Khomeini Shrine.

## Analysis and results

As Table 2 shows that Iran and Tehran is very interesting for people below 50s years old. Tourists between 28-17 years old rated over 47.4% out of total tourists. If we add people tourists in age group between 18 and 47 almost 73.6% of the tourist out of total tourist are in this age group. However, it seems there are less tourists above 50s years old. Therefore, tourists in Tehran are young and Tehran is destination for young tourists. By the other words, can say Tehran is not suitable or is not attractive for middle age and old tourists.

**Table 2. Distribution of the age of tourists**

frequency percentage	frequency	Number of trips to Tehran
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## Hypotheses

A. The spatial behavior pattern of tourists in Tehran is tourism resources functions (e.g. attractions, hotels, restaurants, etc.).

B. The spatial behavior pattern of tourists in Tehran is regular and follows a linear pattern.

## Methodology

A survey form designed to collect primary data from tourists from most hotels, inns, and tourist visit sites in Tehran. After that, clustering data and analysis in SPSS software to use it as shape file in GIS for producing maps. In addition, in this research secondary data had specific place; books, papers, reports, researches prepared by scholars, universities, urban planners, historical documents, Iran ministry of foreign affair, and ministry of cultural heritage and tourism. However not all data they had was suitable for this research but the data used based on objectives and hypotheses and with three characteristics reliability, suitability, and adequacy .

17.7	68	<b>27-18</b>
47.4	182	<b>37-28</b>
11.5	44	<b>47-38</b>
5.7	22	<b>57-48</b>
11.5	44	<b>67-58</b>
4.2	16	<b>77-68</b>
2.1	8	<b>+77</b>
100.0	384	<b>Total</b>

Table 3. Shows Tehran is not a frequent place for people to have regular trips. Over 90% of the respondents have never been in Iran before. By combining table 1 and table 2 these group of young tourists, which rated the majority in Tehran, do not make the second trip and many of them come to Iran once

**Table (3): Frequency distribution of respondents according to the number of trips to the destination**

frequency percentage	frequency	Number of trips to Tehran
90.6	348	<b>Never</b>
5.7	22	<b>once</b>
2.6	10	<b>Twice</b>
1.0	4	<b>three times</b>
100.0	384	<b>Total</b>

Table 4 shows that the subway is more convenient for tourist to make their Urban trips in Tehran by over 45.4%. Also, subway is the only way that they found and realized to escape from jammed streets in Tehran .

**Table (4): Priority of tourists according to the use of transportation means**

Moving device	Frequency	%	rank
Subway	220	45.4	1
Taxi	138	28.5	2
Bus	80	16.5	3

Others	28	5.8	4
Internet Taxi	18	3.7	5

Tehran's six entrances including 2 airports, 4 terminals and one railway. Imam Khomeini Airport 61.4% has the most tourist arrivals. According to the information given in Figure (6), among the vehicles, tourists have used more than the metro. The least use of the tourists has been from the Internet Taxi. In figure 5 it shows that tourism behavioral pattern in Tehran is in the middle of Tehran to the north. The spatial distribution of tourist resources and destinations have formed the tourism spatial behavior pattern. The central part of Tehran is where the Tehran Bazar is located and many other buildings and urban designs from Qajar dynasty. Based on-time budget and Tehran tourism facilities the central part of Tehran is the most attractive place. It seems tourists in Tehran have not found anything or found less interesting things in the south, the west and the east parts of Tehran. Figure 6 is the Tehran tourism spatial organization which is a starts from Tehran International Airport to central parts in Tehran and then spatters in district 12 in Tehran and moves to the north.

Figures 5, 6, 7, and 8 show that the spatial pattern in Tehran is zonal in the central part of Tehran is and is linear in the north and the west part of Tehran. Since tourism geography is on from the behavior geography is very practical. After, Iran revolution and during the 8 years between Iran and Iraq the urban development in the East, West, and the north part of Tehran have neglected the necessity of urban tourism planning. Therefore, as figures show they are not poor urban tourism development made just the central part of Tehran attractive tourist destinations. In addition, the north part of Tehran enjoys a very good quality of weather in winter for skiing and summer mountaineering and trekking.

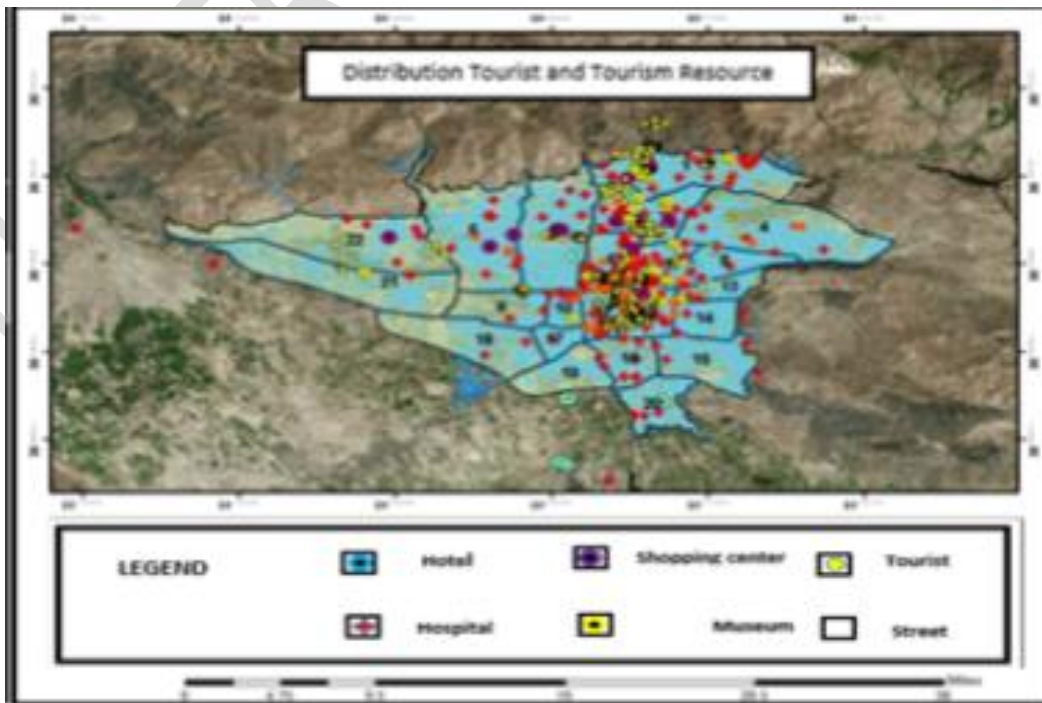




Figure (2): Spatial distribution of Tehran tourist attraction

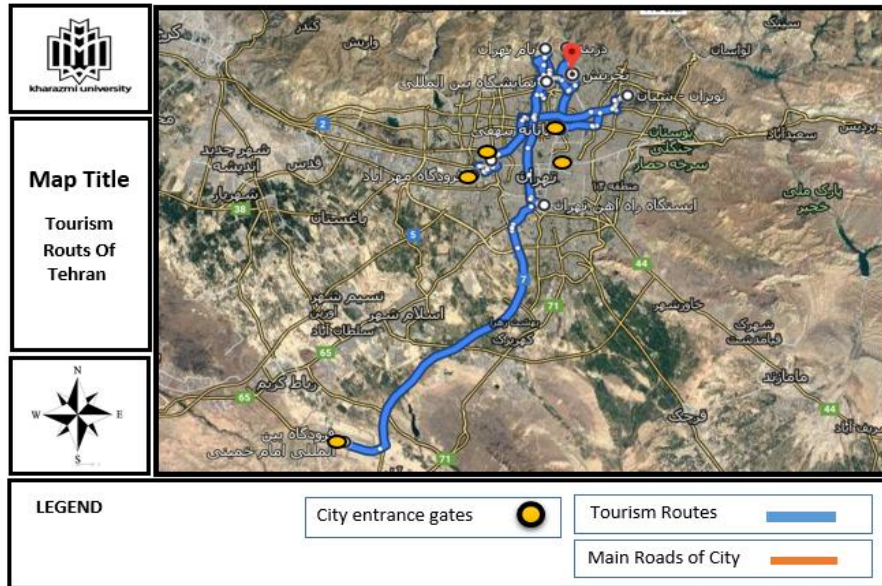


Figure (3): Tehran tourist routes and City entrance Gates

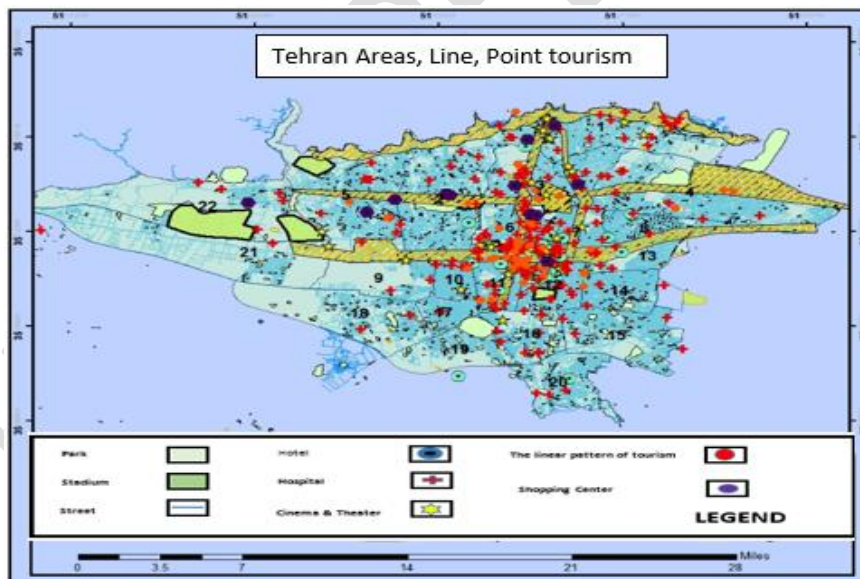


Figure (4): Tehran. Line, Point Area Tourism

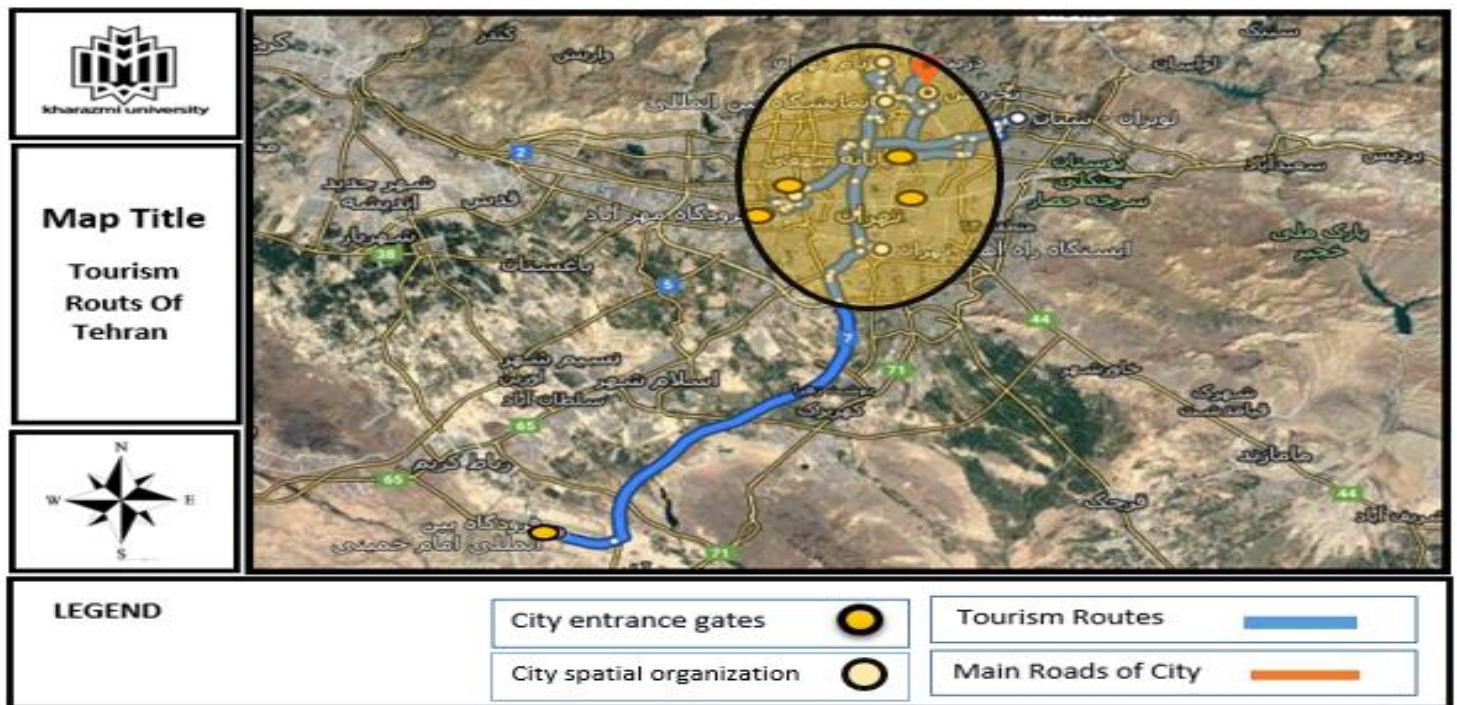


Figure (5): Tehran City Organization Tourism

## Conclusion

Iran is one of the most biodiversified and one of the historical countries in the world. Since neighboring countries, earn so much money from the tourism industry in comparison to Iran. The tourism geography and studies based on tourism geography can help to promote Iran tourism industry to the world. All these are hard to come by and need some painstaking efforts from university and institutes to the government. Tehran as the first tourist destination and capital city in Iran. There so many potentials in Iran (e.g. geographical, environmental, economic, historical, and cultural) which are unknown or are not really introduced to the tourists. The most important places are located in the central part of Tehran where district 12 is and

for tourism, Bazar is one of the most important places to visit. The other places in Tehran have benefited from the Bazar. As a prime example, district 6 in Tehran is where some hotels and inns located to place the tourists. The other important place for tourists is the north part of Iran place like Shemiranat. The pleasant environment encourages tourists to visit the north part of Iran .

Based on the primary data analysis the tourism spatial pattern is depended on tourism resources. Where, the central part of Tehran is rich tourism destination the east, west, and south part of Tehran do not capacity to encourage make a trip in those areas. However, they have potentials that have never used. Furthermore, the tourism spatial behavior in the north part of Tehran is moving inside the

routes while in central parts of Tehran tourist movements is zonal. The survey showed that Tehran's tourism spatial pattern is dependent on tourism resources. Most of the resources in the history area are located in the central part of Tehran. Therefore, the second hypothesis is based on the linearity of the behavioral spatial pattern of tourists is proved. Tourist spatial behavioral movements in Tehran is the same as the most jammed streets in Tehran and this pattern is fully focused on Tehran center. Therefore, it is important to pay attention on planning to ease the tourist's movement movements in Tehran. By the better words, Tehran urban planning and the district 12 in the central part in Tehran should address the basic tourist needs.

In the end, this study proved that there is not an integrated plan about tourism geography in Iran and in Tehran. Tourism in Tehran is very concentrated in the central city and the north part of Tehran. While Tehran has one of the most beautiful deserts the south part of Tehran. In the east part, Tehran has mountainous places without any notion or plan about the tourism industry. The west part of Tehran is the same even with Tehran Mall. If divide Tehran from north to the south in three main areas and from the west to the east, the central area from the north and the central area from the east to the west is the most important attractive place for tourists. The Azadi Square in the west and the Tehranpars Square in the east make the most important hub. This will

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become very important when joining to the other roads from the north part of Tehran to the South (e.g. Valiasr St and Chamran Highway) the other roads are not as important as these roads are.

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