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Tourism Management Perspectives

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Social network analysis in tourism services distribution channels



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ARTICLE INFO

Article history: Received 13 November 2014 Received in revised form 15 December 2015 Accepted 8 January 2016

Keywords: Tourism distribution network Network analysis Case study ORA

ABSTRACT

Application of network analysis in tourism research is relatively new, especially in the study of tourism services distribution channels. Network analysis is employed to investigate the structure and pattern of relationships between actors in a network. This paper applies NA with Organizational Risk Analysis software to analyse tourism services distribution channels. The data is collected from a major tour operator in Hanoi and its travel agent network. The results of the research show the pattern of the network between tour operators and travel agencies; and between tour operators. Network analysis also reveals the cooperation and cohesion of the network as well as the network dynamics between the case study tour operator and its travel agencies over a period of time.

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1. Introduction

Tourism distribution channel is considered to be a narrow definition of tourism supply chain, which focuses on the distribution and marketing activities (Song, 2012; Zhang, Song, & Huang, 2009). There are several entities in tourism distribution channels such as services suppliers, tour operators, travel agencies and customers (Bitner & Booms, 1982). These relationships in tourism distribution channels have been studied from different perspectives such as game theory and traditional product marketing channels. Despite the prominent use of social network analysis in relationships between entities in tourism, there is a lack of application of network analysis in analysing tourism services distribution channels.

Social network analysis and network analysis are perceived as similar in many research publications since it became popular in the 1990s. This paper adopts the term network analysis instead of social network analysis. Network analysis is an approach and set of techniques used to study the exchange of resources among actors within the network. Resources may be goods, services, money or information. Network analysis reveals the pattern of relationships, the availability of resources and the exchange of resources between the actors (Haythornthwaite, 1996). Network analysis has been employed with numerous applications in different fields of research such as shareholding network, community

structure, political and policy network, social movements, economics and geography (Carrington, 2011).

In tourism arena research, network analysis has been applied to identify and examine the relationships in tourism; such as relationship between tourists' groups, relationships between stakeholders in tourism destination, web connections between tourism companies or stakeholders' relationships for sustainable tourism (Stokowski, 1994; Timur & Getz, 2008; Pavlovich, 2001; Pavlovich, 2003; Baggio, 2009, 2010; Bhat & Milne, 2008; Costa & Baggio, 2009; Erkus-Ozturk & Eraydin, 2010; Scott, Baggio, & Cooper, 2011; van der Zee & Vanneste, 2015). However, this methodology has not been applied to analyse relationships between actors within tourism services distribution channels or tourism services distribution network. Therefore, the aim of this paper is to utilize network analysis to study the relationships between entities in Hanoi tourism services distribution channels. By using a case study method, this paper attempts to fill the gap of application of network analysis in tourism services distribution channels.

2. Literature review

2.1. Network analysis in tourism

Network analysis has been applied in tourism studies to identify and examine the relationships in tourism. Network analysis was first used in tourism study by Stokowski (1994) to examine the tourists' behaviour and relationship between tourist groups. The author also suggests that social network analysis "should be broadly conceived to address relations between external resort or hotel operators and local labourers, relations between tourist-trading governments and other relationships of significance in the production of tourist destinations".

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There are many authors who have applied network analysis in analysing the relationships in tourism industry such as Timur and Getz (2008); Pavlovich (2001, 2003); Baggio (2007); Erkus-Ozturk and Eraydin (2010); and Scott et al. (2011). There are two main streams of application of network analysis in tourism research. The first stream is using network analysis to understand the evolution of business networks and analyse inter-organizational relationships. The second stream is applying network analysis in tourism policy, including analysing public-private relationships and structure of tourism governance with the involvement of all stakeholders in tourism. The literature review of these publications is shown in Table 1 as two streams.

In general, network analysis has been applied in different areas of tourism (destination development, sustainable tourism, urban tourism etc.), different network types (communication network, virtual network, collaborative network) with different network measurement (density, structure holes, strong/weak tie, clustering, efficiency etc.). However, the distribution network area has received very little attention (Holma, 2004; Go & Williams, 1994). Although these literature discuss the movement or the changes of distribution channel network, they do not provide any network measurement to prove their conclusions. This paper, by using the Organizational Risk Analysis (ORA) network analysis software by CASOS, analyses the tourism services distribution network with several network measurements. These measurements provide better explanations for investigating networks.

The network of entities in tourism services distribution channels may be seen as business networks; therefore, the study of relationships

between different tourism services distribution channels is warranted. The review of literature has revealed that, there are few publications using network analysis to analyse the relationships in tourism services distribution channels. In addition, these publications do not pay attention in analysing network dynamics or the changes in network over time.

Analysing network dynamics with the consideration of time is the "emergent scientific field" in network studies (Carley & Columbus, 2013). This approach is suitable for the network analysis where actors are changing frequently. As claimed by Zhang et al. (2009), tourism is a dynamic industry with the evolution of tourism services supply chain relationships and this dynamics need to be analysed in-depth. Recording and measuring the changes of actors and links in the network can show the changes of structure and relationships in the network. However, there is still lack of research of relationship dynamics in networks. The dynamics of a network can be seen in the research of Pavlovich (2003) about evolution and transformation in a tourism destination at Waitomo Caves, New Zealand. The author compared network structures of destinations in publications in the years 1910, 1986 and 2000 to understand the inter-organizational relationships and partnerships between actors in the destinations. In addition, Pavlovich (2014) conducted another research about evolution and transformation of a tourism destination with the comparison of nodal structure of a tourism destination in 1910, 1986 and 2003. The author proved the temporal connections between nodes (actors) in the structure or in the network of entities in the tourism destinations.

Table 1Literature review of publications using network analysis in tourism.

| Author, year | Kind of network/relationships | Network measurements |
|--|--|--|
| 1. Inter-organizational relationships | | |
| or business networks | | |
| Scott et al. (2011) | Communication network and virtual network of tourist | Density, path, clustering coefficient, proximity ratio, efficiency |
| | organizations in Elba, Italy | (global and local), assortative mixing coefficient |
| Costa and Baggio (2009) | Web of connections between tourism companies in Elba, Italy | Size, density, disconnected nodes, diameter, path, clustering |
| | | coefficient, proximity ratio, centrality, efficiency (global and |
| | | local), assortativity coefficient |
| Holma (2004) | The triadic business relationship in travel distribution: buyers | No specific network measurement |
| | (travellers) – intermediaries (travel agencies) – sellers (service suppliers). | |
| Pavlovich (2003) | Relationship between the Waitomo destination with the related | Centrality, density, strong ties/weak ties |
| raviovicii (2005) | tourism stakeholders to develop the competitiveness of the tourism | centrality, density, strong ties/ weak ties |
| | destination | |
| Tinsley and Lynch (2001) | Small tourism business networks | No specific network measurement |
| | | • |
| 2. Public-private relationships, | | |
| structure of tourism governance Kimbu and Ngoasong (2012) | Tourism industry stakeholders in Cub Cabaran Africa | Network structure, mobilization of network, strength of weak |
| Killibu aliu Ngoasolig (2012) | Tourism industry stakeholders in Sub-Saharan Africa | ties, strong interlocking ties, cross-cutting ties, structural |
| | | equivalence |
| Conway and Cawley (2012) | The network of local authorities, national tourism bodies, regional | Using matrices to visualize the links and network in the |
| convay and carriey (2012) | and rural development groups and ecotourism providers in | ecotourism destination |
| | ecotourism destination development (Greenbox, Ireland) | |
| Baggio (2007) | Network of local stakeholders, tourism operators in tourism | Distribution degree, link density, betweenness |
| | destination (Elba, Italy) | |
| Baggio and Cooper (2010) | Network of stakeholders in tourism destination, including both | Degree distribution, average path length, clustering coefficient, |
| | public and private organizations in term of transferring knowledge. | efficiency (global and local), assortativity coefficiency, size, |
| | | disconnected nodes, centrality |
| Baggio and Cooper (2010) | Network of stakeholders in term of information diffusion in Elba, | Density, path, clustering coefficient, proximity ratio, local and |
| M (2000) | Italy | global efficiency, assortative mixing coefficient |
| Watts (2009) | Control and communication in collaborative policy implementation | NETWORK mapping |
| Hede and Stokes (2009) | networks Network of stakeholders associated with Airey's Inlet Farmers' | No specific network measurement |
| ricuc and stokes (2003) | Market | No specific network measurement |
| Timur and Getz (2008) | Stakeholders network for sustainable urban tourism | Density, centrality of the network |
| Bhat and Milne (2008) | Inter-organizational cooperation in destination marketing | Embeddedness, density and centrality |
| Baggio (2010) | Relationships between stakeholders in tourism destination | Clustering and assortativity coefficients |
| Leung et al. (2012) | Overseas tourist movement patterns in Beijing with the impact of the | Size, density, betweenness centralization |
| | Olympic Games | |
| Erkus-Ozturk and Eraydin (2010) | Collaborative networks and organization building in Antalya tourism | Using UCINET 6 software |
| | region | |
| McLeod, Vaughan, and Edwards | Network of business people within a tourism destination in term of | Density, structure holes, number of weak components, brokerage, |
| (2010) | sharing knowledge | betweenness |

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