

Chapter 11

An Overview of Tourism Supply Chains Management and Optimization Models (TSCM – OM)

Jonnatan F. Avilés-González

Tecnológico de Monterrey, Mexico

Sonia Valeria Avilés-Sacoto

Tecnológico de Monterrey, Mexico

Leopoldo Eduardo Cárdenas-Barrón

Tecnológico de Monterrey, Mexico

ABSTRACT

Around the world tourism industry represents economic benefits to the countries in where the tourist attractions are located. The purpose of this chapter is to search and review recent researches related to the area of tourism under supply chain management and optimization models perspectives. The main aim of this chapter is to identify and discuss how the tourism supply chain is studied when it is subject to different economic, market, and optimization strategies. Considering the period of 2005 to 2016, a systematic review was performed using research studies in the area of tourism supply chain management. The results show that game theory is used as a theoretical base in the majority of the cases, but several novel approaches are also incorporated to the analysis. This review can be used as a complement of the previous works and a valuable information source for the decision makers involved in the tourism area.

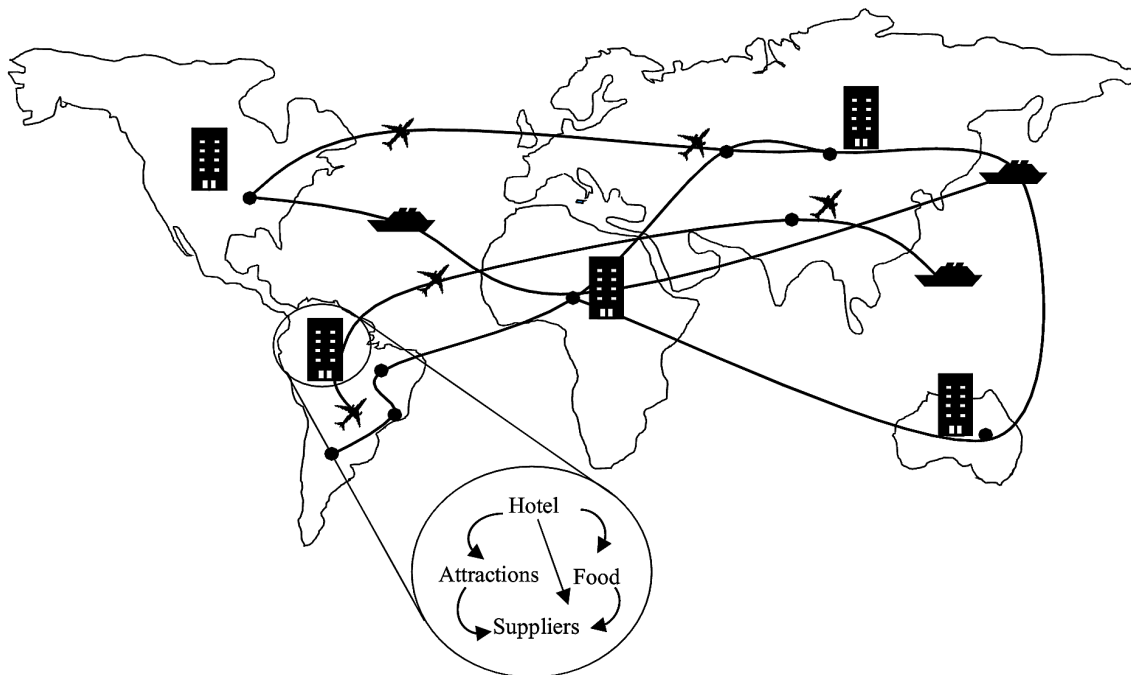
INTRODUCTION

Talking about tourism implies an intensive management of several activities including planning, evaluation of tourism services, promotional and discounts tracking, and the different offers to attract new customers to the destiny. This idea leads us to think that it is necessary to develop an analysis of the cost-benefit relation applied to all the stakeholders involved in this field.

From the customer's perspective, tourism is used to satisfy the human desire for fun, recreation, and the undefined motive to seek and explore the unknown and unseen (Tisdell, 2013). It includes activities of people travelling to and staying in places outside their conventional environments. Another concept given by Franklin (2003) associates the tourism with modernity, where the society experiences novel changes and ways of communication, thus the outcome is an extension of the spatial range from the home to outer space.

On the other hand, economically speaking, tourism is a fast-growing economic activity in many countries, benefiting the development of nations due to the employment generation, stimulation of investment, infrastructure development, and foreign exchange earnings. In this direction, some previous studies have reported an increase interest in the tourism industry. Literally, there are thousands of papers related to tourism. In fact, worldwide, tourism is considered as one of the fundamental economic activities, that contributes in the progress of the economy. It is important to remark that the success of the tourism industry relies in the optimal use of all the factors belonging to the productive tourism chain. Some of them are the tourism resources, tourism services, public services, social and cultural activities, among other offerings. Figure 1 shows an example of how the tourism flow is linked and how the stakeholders are related.

Figure 1. Example of tourism flow routes and stakeholders



23 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

www.igi-global.com/chapter/an-overview-of-tourism-supply-chains-management-and-optimization-models-tscm--om/239276

Related Content

Relocation Strategy of Global Supply Chain and Value Chain Under Deglobalization

José G. Vargas-Hernández (2023). *Managing Inflation and Supply Chain Disruptions in the Global Economy* (pp. 62-80).

www.irma-international.org/chapter/relocation-strategy-of-global-supply-chain-and-value-chain-under-deglobalization/309561

Spatial Distribution Characteristics and Influencing Factors of Urban Residents' Travel Carbon Emissions in Guangzhou

Jianfeng Lu, Jiahong Zhao and Haiyan Jiang (2017). *International Journal of Applied Logistics* (pp. 41-51).

www.irma-international.org/article/spatial-distribution-characteristics-and-influencing-factors-of-urban-residents-travel-carbon-emissions-in-guangzhou/190402

Role of Big Data in Continuous Improvement Environments: A Reflection on The Relationship

Brian J. Galli (2019). *International Journal of Applied Logistics* (pp. 53-72).

www.irma-international.org/article/role-of-big-data-in-continuous-improvement-environments/218815

Application of Artificial Intelligence Data Mining Algorithm in Enterprise Management Risk Assessment

Juntao Zhu (2024). *International Journal of Information Systems and Supply Chain Management* (pp. 1-19).

www.irma-international.org/article/application-of-artificial-intelligence-data-mining-algorithm-in-enterprise-management-risk-assessment/342119

Innovative Port Logistics Through Coupled Optimization/Simulation Approaches

Mustapha Oudani, Abderaouf Benghalia, Jaouad Boukachour, Dalila Boudebous and Ahmed El Hilali Alaoui (2018). *Contemporary Approaches and Strategies for Applied Logistics* (pp. 317-336).

www.irma-international.org/chapter/innovative-port-logistics-through-coupled-optimizationsimulation-approaches/196934