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ANALYSIS OF THE SCIENTIFIC PRODUCTION ON CRISIS MANAGEMENT IN TOURISM DURING THE PERIOD 1980-2021

ANÁLISIS DE LA PRODUCCIÓN CIENTÍFICA SOBRE GESTIÓN DE CRISIS EN TURISMO DURANTE EL PERIODO 1980-2021

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ABSTRACT

Objective. Analyze the scientific production on crisis management in tourism in the Scopus database in the period 1980-2021. **Design/Methodology/Approach.** A bibliometric study was carried out in the Scopus database using the keyword search strategy with the terms "crisis management" AND "tourism". **Results/Discussion.** The search yielded a total of 395 articles indexed in the database; 76.46% (302) of them are articles from scientific journals, the largest number of publications are associated with the Tourism Management journal and Lori Pennington-Gray stands out as the most prolific author on the subject. A total of 1045 keywords were analyzed through the co-occurrence of terms with prevalence of studies associated with crisis management related to tourism management, tourism economies, market studies, tourism destinations, tourism development, COVID-19, social networks,

decision making, among others. **Conclusions.** Crisis management is a topic of growing interest within the international scientific community, which is proven by the increase in publications associated with it, especially during the crisis caused by COVID-19 in the tourism sector the last two years. **Originality / Value.** This research is part of a larger research project focused on the development of a doctoral thesis associated with the subject under study.

KEY WORDS: crisis management; tourism; tourism management; bibliometric study

RESUMEN Objetivo. Analizar la producción científica sobre gestión de crisis en turismo en la base de datos Scopus en el período 1980-2021. Diseño/Metodología/Enfoque. Se realizó un estudio bibliométrico en la base de datos Scopus utilizando la estrategia de búsqueda por palabra clave con los términos "gestión de crisis" Y "turismo". Resultados/Discusión. La búsqueda arrojó un total de 395 artículos indexados en la base de datos; El 76,46% (302) de ellos son artículos de revistas científicas, la mayor cantidad de publicaciones están asociadas a la revista Tourism Management y se destaca Lori Pennington-Gray como la autora más prolífica en el tema. Se analizaron un total de 1045 palabras clave a través de la co-ocurrencia de términos con prevalencia de estudios asociados a la gestión de crisis relacionados con la gestión turística, economías turísticas, estudios de mercado, destinos turísticos, desarrollo turístico, COVID-19, redes sociales, toma de decisiones, entre otros. Conclusiones. La gestión de crisis es un tema de creciente interés dentro de la comunidad científica internacional, lo cual se demuestra con el aumento de publicaciones asociadas a la misma, especialmente durante la crisis provocada por el COVID-19 en el sector turístico los últimos dos años. Originalidad / Valor. Esta investigación forma parte de un proyecto de investigación más amplio centrado en el desarrollo de una tesis doctoral asociada al tema objeto de estudio.

PALABRAS CLAVE: gestión de crisis; turismo; gestión turística; estudio bibliometrico

INTRODUCTION

The Organization for Economic Co-operation and Development (OECD) states that the world tourism economy has been expanding steadily over the last six decades (OECD, 2020). However, the occurrence of a series of problems in the sector leads to the need of rethinking the tourism management process. This was demonstrated in the wake of the great losses suffered by the world tourism industry in 2020 with the rapid expansion of the Sars-Cov-2 virus that plunged the world into a global pandemic crisis (UNWTO, 2020). The latest data from the World Tourism Organization (UNWTO) shows that, during the first five months of 2021, world destinations registered 147 million fewer international arrivals than in the same period of 2020, or 460 million fewer than in 2019, the year before the pandemic (UNWTO, 2021a).

According to Wut Tai (2021) under the rupture caused by COVID-19, many researchers in the tourism industry have oriented their studies towards the field of crisis management for the future. However, an analysis of the scientific production related to crisis management in the hospitality and tourism industry carried out by the author himself shows that the most researched sectors by the scientific community are limited to the analysis of crises in tour operators and travel agencies, hotel operators, airlines, restaurants and the ocean cruise industry (Wut Tai, 2021).

The present research covers a longer period of time than that analyzed by Wut Tai (1985-2020) by encompassing 42 years of research (1980-2021) on crisis management in tourism.

Besides, the articles dating from 2020 analyzed by the above-mentioned author are only used as reference. Other bibliometric indicators are analyzed, such as the co-occurrence of terms, authorial collaboration, the evolution of the theory through historiographical analysis and the analysis of the global collaboration network.

In addition, the production associated with this topic has increased during the years 2020-2021 due to the crisis caused by the COVID-19 pandemic, in which tourism sector has been one of the most affected industries as international arrivals to destinations decreased, with an estimated loss of global GDP in 2020 around 2 trillion USD (UNWTO, 2020, 2021c). That is why this research aims at analyzing the scientific production associated with crisis management in tourism during the period 1980-2021 as well as identifying both the main thematic lines dealt with and the main authors who investigate the subject within the international scientific community.

METHODOLOGY

For the development of the research, a search was carried out in the international Scopus database of Elsevier, considered the largest database of citations and abstracts worldwide on the web of peer-reviewed literature and high-quality sources, which contains more 58.5 million records post-1995 including references, more than 25.4 million records pre-1996 from 1788, more than 18.0 million open access articles, more than 10.9 million conference papers, over 15.8 million articles with funding details and 47.4 million patent links (Elsevier, 2021).

The strategy used for the search was based on the use of keywords, using the terms "crisis management" AND "tourism " only in journal articles, books and book chapters and conference papers since 1980 until 2021; the bibliometric indicators corresponding to production by years, journals, authors, co-authorship, most treated topics, co-occurrence of terms, thematic evolution, as well as the global collaboration network were analyzed. For data processing, the RStudio 1.4.1106 software was used with the Bibliometrix package (Aria & Cuccurullo, 2017) for the analysis of the main bibliometric indicators and the VOSviewer software for the analyzes corresponding to the indicators of the data collection network. occurrence of terms by keywords.

RESULTS AND DISCUSSION

Crisis management in tourism between 1980 and 2021

Although the first studies associated with crisis management in tourism date back to 1980, the subject has gained momentum in recent years. A review carried out in Elsevier's Scopus international database allows us to affirm the existence of articles published in the period between 1980 and 2021 (Figure 1). The initial search yielded 395 indexed sources in the database, however, due to research interests, the data was filtered by selecting specific types of sources (scientific journal articles, conference records, books, book chapters, and reviews) for analysis selecting a total of 359 sources, among which 83.57% (300) are scientific journal articles, 28 (7.80%) are part of conference records, 6.40% (23) are book chapters and 8 (2.23%) are books.

The analyzed period encompasses a total of 41 years, but the first seventeen years (1980-1997) was the interval with the lowest productivity. As of the year 2002, an increase in publications begins to be appreciated, however, the period between 2002-2015 is marked by

annual fluctuations in scientific productivity. The year 2015 marks a sustained increase in the number of publications associated with crisis management in tourism. The Annual Growth percent was 11.6 % and the International Co-Authorship percent was about 22.01%.

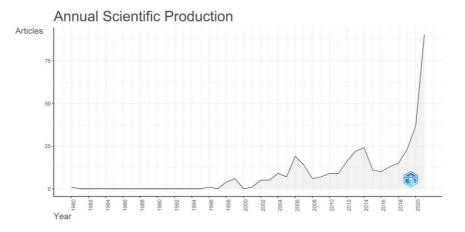
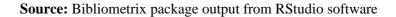


Figure 1. Annual scientific production on crisis management in tourism



The analysis of the articles published in 159 sources makes it possible to identify that the ten journals where the greatest number of resources have been published group together 37.33% (134 articles) of those published in the period (Figure 2), where Tourism Management journal stands out as the one with the highest productivity with 30 articles associated with the subject, followed by the Journal of Travel and Tourism Marketing with 22 articles and Current Issues in Tourism with 16 resources. In addition, these journals are well positioned according to the Scimago International Ranking of Magazines, respectively occupying positions 2, 7 and 10 thereof, in the category of Tourism Management, Leisure and Hospitality.

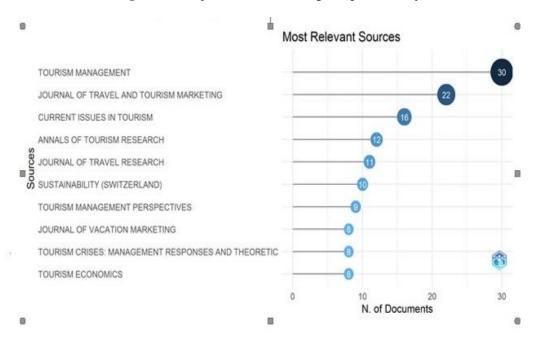
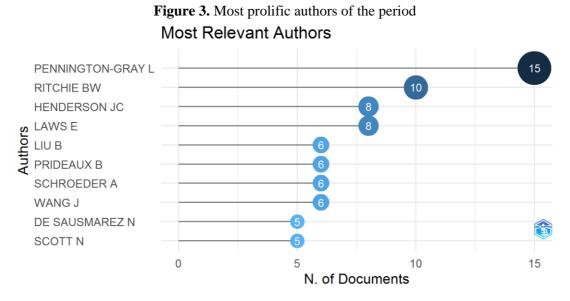


Figure 2. Ten journals with the highest productivity

Source: Bibliometrix package output from RStudio software

The scientific production of a total of 757 authors was analyzed, of whom 680 signed a single article and 77 signed several. The analysis showed that the most prolific authors are those shown in figure 3, headed by Lori Pennington-Gray, Doctor of Science from the School of Hotel, Commercial and Sports Management and professor at the Center of Excellence in Economic Development and Tourism. from the University of South Carolina, United States; who is in charge of running three study centers and, in addition, in the last decade, he has concentrated most of his research on tourism crisis management. Much of his work has been published by the relevant media such as the New York Times.



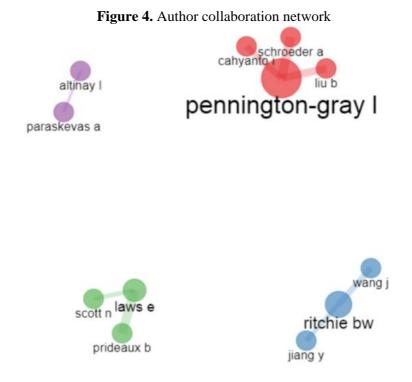
Source: Bibliometrix package output from RStudio software

Initially, Lori Pennington-Grey's studies focused on crisis management in tourism (Pennington-Gray et al., 2011), but they gradually expanded into other fields of research, mostly associated with decision-making (Cahyanto & Pennington-Gray, 2015; Cahyanto et al., 2016), traveler behavior (Pennington-Gray et al., 2014), fight against diseases (Liu et al., 2016; Yang et al., 2021), use of social networks (Schroeder et al., 2013; Schroeder et al., 2018) and management of communication strategies during crises (Farajat et al., 2017; Liu & Pennington-Gray, 2015; Liu et al., 2015; Schroeder & Pennington-Gray, 2015).

For his part, Brent W. Ritchie studies crisis management in tourism but specially focused on disasters (Ritchie, 2004; Ritchie & Jiang, 2021), and also raises the need for building resilience capacities in facilities (Jiang et al., 2019; Pham et al., 2021); as well as the role that must be played by organizations in charge of managing tourist destinations in coping with different crisis situations (Blackman et al., 2011; Blackman & Ritchie, 2007). Ritchie emphasizes crisis plans and methods to deal with them (Mair et al., 2016; Ritchie et al., 2011; Wang & Ritchie, 2010, 2012).

Authorial collaboration or co-authorship (Figure 4) within the analyzed period was carried out based on those authors who have 5 or more investigations. The co-authorship network presents a total of 4 independent clusters, which are scattered and relatively disconnected from one another. The size of the nodes responds to the measures of centrality applied. Those with the highest nodal degree are those with the greatest number of collaborative links. The thickness of the lines represents the intensity and strength of those relationships.

Cluster 1 (red) stands out among all the others, since it contains within its actors the most collaborative author within the sample (Dr.C. Lori Pennington-Grey), who presents a nodal degree (GN) equal to 11, which determines her favorable position in the network. In the analyzed sample, she is responsible for 15 contributions, in which she is the main author of 4 and co-author of 11. Among the authors with whom she establishes relationships, Dr.C. Ashley Schroeder excels with a GN = 7. Both authors present 6 collaborations in common on the use of social networks for crisis management in tourism and risk management.



Source: Bibliometrix package output from RStudio software

The analysis of these studies allows us to assert that the approaches related to crisis management in tourism have evolved over the years (Figure 5); initially related to terrorism (Henderson, 2008a; Santana, 2004; Sönmez, 1998), disaster recovery (Carlsen & Liburd, 2007; de Sausmarez, 2007; Radnić & Ivandić, 1999), and destination marketing (Beirman, 2002; Henderson, 2008b; Litvin & Alderson, 2003) to gradually move towards crisis management in the tourism industry (Pennington-Gray et al., 2011; Racherla & Hu, 2009), the image of tourist destinations (Fall & Massey, 2013; Ryu et al., 2013), economic crises (Alegre et al., 2013; Michalkó et al., 2014) without losing sight of destination marketing and recovery.

By the year 2012, studies related to crisis communication began (Gunawan et al., 2015; Johnson, 2014; Liu & Pennington-Gray, 2015), social networks (Li et al., 2014; Liu et al., 2015), organizational learning (Ghaderi et al., 2014). For the 2016-2019 period, analyzes in the hotel industry (Webster et al., 2017; Zenker et al., 2019) and risk management (Paraskevas & Quek, 2019; Vargas-Sánchez, 2018) are introduced. The year 2020 also marked a shift in the focus of research, which has been marked by the development of issues associated with resilience (Boto-García & Baños-Pino, 2021; Carty, 2021; Setthachotsombut & Sua-iam, 2020), sustainable tourism (Gómez, 2021; Hopkins, 2021), disaster management

(Chan et al., 2020; Sofyan et al., 2021) and those linked to COVID-19 (Dayour et al., 2020; Liu et al., 2021; Soliku et al., 2021).

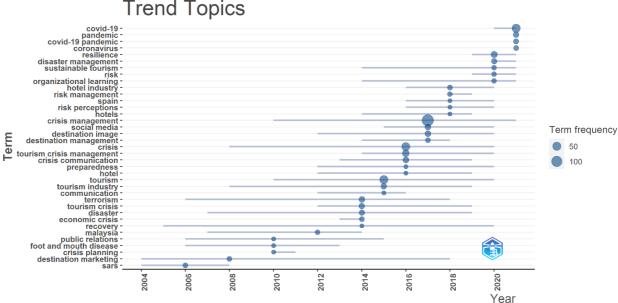


Figure 5. Most discussed topics associated with crisis management in tourism Trend Topics

Source: Bibliometrix package output from RStudio software

An evolutionary analysis of the keywords (Figure 6) allows us to divide the timeline into four analysis periods. During the first period (1980 and 1999), crisis management whose associated research was incipient focused on the study of the impact of terrorist actions on tourism markets, for the second period (2001-2010) studies revolves around crisis management and the topics associated with marketing studies begin to consolidate above all in Eurasia as the center of these investigations, especially associated with the financial crises caused by the international economic downturn from 2007 to 2009. For the third period (2011-2015) the crisis management continues to consolidate in the studies, but then it is mainly related to tourism as a phenomenon, since the theme is consolidated in association with tourist destinations and with Australia as the epicenter of these studies. In addition, studies associated with the economic impact generated by crisis situations and the use of information systems are emerging.

In the last period (2016-2021), crisis management in tourism holds a stronger position, mainly in relation to elements of the previous period such as tourist destinations, the influence of crises on jobs, disaster management, the impact on the communication and the crises generated by this and the information systems which for this last analysis are also focused on the use of social networks. Studies on this subject are consolidated in Spain and continue to be closely linked to Eurasia and Australia. This period is marked by the scourge of the new coronavirus Sars-Cov-2 pandemic during which the international scientific community has focused on managing the resulting health crisis, advocating in its studies for the perception of risk before pandemics. and exactly in the one caused by Covid-19, placing great emphasis on the resilience of the hospitality industry, which, according to Altintas and Royer (2009), is the ability to avoid crises.

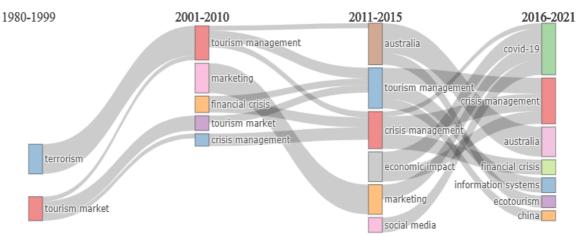


Figure 6. Evolution of the topic of crisis management in tourism

Source: Bibliometrix package output from RStudio software

An analysis of the global collaboration network (Figure 7) of the study allows us to corroborate what was stated in the previous analysis in which the studies associated with the subject have a greater presence in the United States as the main collaborator with strong relations with South Korea, the United Kingdom, Canada, where the studies are beginning to consolidate, but its relationship with this country is strong, and Australia, which at the same time maintains strong ties with the United Kingdom. On the other hand, studies on the subject are consolidated in Spain, Japan, Italy, France, Saudi Arabia, China and South Africa. In the case of Latin America, studies are consolidated in Mexico, Brazil, Argentina, Jamaica and Chile.



Latitude

Source: Bibliometrix package output from RStudio software

This research updates a group of bibliometric indicators analyzed by Wut Tai (2021) in his research, which also summarized that the main emerging issues during the last decade have

revolved around health-related crises, including COVID-19. , the social media crisis, the political unrest crisis, and the terrorism crisis. However, it does not address the need to focus studies in the context of tourist destinations and their relationship with their local actors and host populations, which suffer equally from the effect of crises in the sector due to the multiplier effect of tourism.

The topics related to the resilience of the tourism sector are still incipient, Wut Tai analyzes it within the 10 main issues addressed in his research, however, it is not considered within the guidelines of the proposed research agenda. The importance of this thematic descriptors in tourism was validated after the impact of Covid-19, as the sector was forced to change its approach in order to achieve a more hygienic and safer tourism. On the other hand, although matters related to decision-making are dealt with, they are mostly analyzed from the perspective of the client and how this process is affected by crises, however, it is necessary to promote studies on timely decision-making during crisis by tourism managers as the main agents of its management.

CONCLUSIONS

The organization and selection of the documents that resulted from this search shows us an approach to the scientific production on crisis management in tourism. In addition, its development attached to scientific rigor allows validating its results from the protocol followed for its preparation.

This article investigates the behavior of scientific production on the topic of crisis management in tourism in a time period (1980-2021) based on the use of a set of bibliometric indicators that support its suitability and solidity in the results obtained, which show specificities in the publishing practices of researchers in Elsevier's Scopus database. The main objective of this research was the analysis of the scientific production on crisis management in tourism and its main trends based on the analysis of thematic descriptors. Although the analyzes have performed from a bibliometric point of view, it is necessary to focus studies on the prevention and mitigation of the effects of crises in the context of tourism, especially from the point of view of tourist destinations and their relationship with local actors.

The development of this research has allowed to verify the growing interest of the scientific community in the development of research associated with crisis management closely linked with the tourism sector, which is one of the sectors most affected by the occurrence of all kinds of crises which, if not promptly dealt with, cause great biases in the development of the industry. The trend of increasing publication in recent years corroborates the need to continue exploring the topic, since the leisure industry maintains a trend of constant development and updating, resulting in the need to continue these studies.

The contribution of the consulted literature allows to identify possible gaps for the development of future research associated with crisis management. The analysis of the thematic descriptors recognizes the existence of topics of necessary study linked to crises such as resilience, decision making, planning, and crisis management from tourist destinations; which have been addressed in the literature in a limited way.

The limitations of this research are enshrined in the need to delve into other bibliometric indicators that further support the analyses, in addition to conducting searches in other existing databases, as well id other types of resources, in addition to expanding the terms used for the search strategy.

BIBLIOGRAPHIC REFERENCES

- Alegre, J., Mateo, S., & Pou, L. (2013). Tourism participation and expenditure by Spanish households: The effects of the economic crisis and unemployment [Article]. *Tourism Management*, 39, 37-49. <u>https://doi.org/10.1016/j.tourman.2013.04.002</u>
- Altintas, G., & Royer, I. (2009). Reinforcement of resilience for a post-crisis apprenticeship: A longitudinal study sur deux périodes de turbulence [Article]. *Management*, 12 (4), 266-293. <u>https://doi.org/10.3917/mana.124.0266</u>
- Aria, M., & Cuccurullo, C. (2017). bibliometrix: An R-tool for comprehensive science mapping analysis. *Journal of Informetrics*, 11 (4), 959-975. <u>https://doi.org/10.1016/j.joi.2017.08.007</u>
- Beirman, D. (2002). Marketing of tourism destinations during a prolonged crisis: Israel and the Middle East [Article]. *Journal of Vacation Marketing*, 8 (2), 167-176. https://doi.org/10.1177/135676670200800206
- Blackman, D., Kennedy, M., & Ritchie, B. (2011). Knowledge management: The missing link in DMO crisis management? [Article]. *Current Issues in Tourism*, 14 (4), 337-354. <u>https://doi.org/10.1080/13683500.2010.489637</u>
- Blackman, D., & Ritchie, BW (2007). Tourism crisis management and organizational learning: The role of reflection in developing effective DMO crisis strategies [Article]. *Journal of Travel and Tourism Marketing*, 23 (2-4), 45-57. https://doi.org/10.1300/J073v23n02_04
- Boto-Garcia, D., & Baños-Pino, J.F. (2021). Deep habits and travel resilience after COVID-19 [Article]. *TourismEconomics*. https://doi.org/10.1177/13548166211052139
- Cahyanto, I., & Pennington-Gray, L. (2015). Communicating Hurricane Evacuation to Tourists: Gender, Past Experience with Hurricanes, and Place of Residence [Article]. *Journal of Travel Research*, 54 (3), 329-343. https://doi.org/10.1177/0047287513517418
- Cahyanto, I., Pennington-Gray, L., Thapa, B., Srinivasan, S., Villegas, J., Matyas, C., & Kiousis, S. (2016). Predicting information seeking regarding hurricane evacuation in the destination [Article]. *Tourism Management*, 52, 264-275. https://doi.org/10.1016/j.tourman.2015.06.014
- Carlsen, JC, & Liburd, JJ (2007). Developing a research agenda for tourism crisis management, market recovery and communications [Article]. *Journal of Travel and Tourism Marketing*, 23 (2-4), 265-276. <u>https://doi.org/10.1300/J073v23n02_20</u>
- Carty, K.S. (2021). Towards a proactive, capabilities-based continuity framework for the hospitality and tourism industry [Article]. *Worldwide Hospitality and Tourism Themes*, *13* (3), 418-430. <u>https://doi.org/10.1108/WHATT-01-2021-0020</u>
- Chan, CS, Nozu, K., & Cheung, TOL (2020). Tourism and natural disaster management process: perception of tourism stakeholders in the case of Kumamoto earthquake in Japan [Article]. *Current Issues in Tourism*, 23 (15), 1864-1885. <u>https://doi.org/10.1080/13683500.2019.1666809</u>

- Dayour, F., Adongo, CA, Amuquandoh, FE, & Adam, I. (2020). Managing the COVID-19 crisis: coping and post-recovery strategies for hospitality and tourism businesses in Ghana [Article]. *Journal of Hospitality and Tourism Insights*, *4* (4), 373-392. https://doi.org/10.1108/JHTI-08-2020-0150
- de Sausmarez, N. (2007). The potential for tourism in post-crisis recovery: Lessons from Malaysia's experience of the Asian financial crisis [Article]. Asia Pacific Business Review, 13 (2), 277-299. <u>https://doi.org/10.1080/13602380601045587</u>
- Elsevier. (2021). Scopus corporate fact sheet . <u>https://www.elsevier.com/______data/assets/pdf__file/0017/114533/Scopus-fact-sheet-______2022_WEB.pdf</u>
- Fall, L.T., & Massey, J.E. (2013). The significance of crisis communication in the aftermath of 9/11: A national investigation of how tourism managers have re-tooled their promotional campaigns. In *Tourism Crises: Management Responses and Theoretical Insight* (pp. 77-90). Taylor and Francis. <u>https://doi.org/10.1300/J073v19n02_07</u>
- Farajat, SAD, Liu, B., & Pennington-Gray, L. (2017). Addressing travel writers' role as risk brokers: the case of Jordan [Article]. *Journal of Policy Research in Tourism, Leisure* and Events, 9 (1), 23-39. <u>https://doi.org/10.1080/19407963.2016.1231194</u>
- Ghaderi, Z., Mat Som, A.P., & Wang, J. (2014). Organizational Learning in Tourism Crisis Management: An Experience From Malaysia [Article]. *Journal of Travel and Tourism Marketing*, 31 (5), 627-648. <u>https://doi.org/10.1080/10548408.2014.883951</u>
- Gomez, LAE (2021). Cultural tourism in post-COVID-19 cities: A perspective and proposals for an alternative model [Review]. *Bulletin of the Association of Spanish Geographers* (91). <u>https://doi.org/10.21138/bage.3138</u>
- Gunawan, S., Shieh, CJ, & Pei, Y. (2015). Effects of crisis communication strategies and media report on corporate image in Catering Industry [Conference Paper]. Economic Act, 65, 399-411. <u>https://doi.org/10.1556/032.65.2015.82.29</u>
- Henderson, JC (2008a). Managing Crises: Uk Civil Aviation, BAA Airports and the August 2006 Terrorist Threat [Article]. *Tourism and Hospitality Research*, 8 (2), 125-136. https://doi.org/10.1057/thr.2008.12
- Henderson, JC (2008b). The politics of tourism: A perspective from the maldives [Article]. *Tourismos*, 3 (1), 99-115. <u>https://www.scopus.com/inward/record.uri?eid=2-s2.0-78651488699&partnerID=40&md5=8b8472d3e2ea157c619bf4733d6c83a9</u>
- Hopkins, D. (2021). Crises and tourism mobility [Article]. *Journal of Sustainable Tourism*, 29 (9), 1423-1435. <u>https://doi.org/10.1080/09669582.2021.1905969</u>
- Jiang, Y., Ritchie, BW, & Verreynne, ML (2019). Building tourism organizational resilience to crises and disasters: A dynamic capabilities view [Article]. *International Journal* of Tourism Research, 21 (6), 882-900. <u>https://doi.org/10.1002/jtr.2312</u>
- Johnson, H.N. (2014). JAMAICA: A famous, strong but damaged brand [Article]. *Place Branding and Public Diplomacy*, *10* (3), 199-217. https://doi.org/10.1057/pb.2014.15

- Li, H., Cao, Y., & Pu, Q. (2014). Involvement effect on high-educated tourists' perceived credibility of social media [Article]. *BioTechnology: An Indian Journal*, *10* (9), 3606-3612. <u>https://www.scopus.com/inward/record.uri?eid=2-s2.0-84922811918&partnerID=40&md5=62a50d78afd417915f86e86ca5a26278</u>
- Litvin, SW, & Alderson, LL (2003). How Charleston got her groove back: A Convention and Visitors Bureau's response to 9/11 [Article]. *Journal of Vacation Marketing*, 9 (2), 188-197. <u>https://doi.org/10.1177/135676670300900207</u>
- Liu, B., & Pennington-Gray, L. (2015). Bed bugs bite the hospitality industry? A framing analysis of bed bug news coverage [Article]. *Tourism Management*, 48, 33-42. <u>https://doi.org/10.1016/j.tourman.2014.10.020</u>
- Liu, B., Pennington-Gray, L., & Klemmer, L. (2015). Using social media in hotel crisis management: The case of bed bugs [Article]. *Journal of Hospitality and Tourism Technology*, 6 (2), 102-112. <u>https://doi.org/10.1108/JHTT-08-2014-0036</u>
- Liu, B., Pennington-Gray, L., & Krieger, J. (2016). Tourism crisis management: Can the Extended Parallel Process Model be used to understand crisis responses in the cruise industry? [Article]. *Tourism Management*, 55, 310-321. <u>https://doi.org/10.1016/j.tourman.2016.02.021</u>
- Liu, X., Fu, X., Hua, C., & Li, Z. (2021). Crisis information, communication strategies and customer complaint behaviours: the case of COVID-19 [Article]. *Tourism Review*, 76 (4), 962-983. <u>https://doi.org/10.1108/TR-01-2021-0004</u>
- Mair, J., Ritchie, B. W., & Walters, G. (2016). Towards a research agenda for post-disaster and post-crisis recovery strategies for tourist destinations: a narrative review [Review]. Current Issues in Tourism, 19 (1), 1-26. <u>https://doi.org/10.1080/13683500.2014.932758</u>
- Michalkó, G., Rátz, T., Hinek, M., & Tömöri, M. (2014). Shopping tourism in Hungary during the period of the economic crisis [Article]. *Tourism Economics*, 20 (6), 1319-1336. <u>https://doi.org/10.5367/te.2014.0387</u>
- OECD. (2020). OECD Tourism Trends and Policies 2020. OECD Publishing. https://doi.org/10.1787/6b47b985-en
- UNWTO. (2020). UNWTO World Tourism Barometer . UNWTO. <u>www.e-unwto.org/loi/wtobarometereng</u>
- UNWTO. (2021a). UNWTO World Tourism Barometer 2021. *19* (6). https://doi.org/10.18111/wtobarometereng.2021.19.1.4
- UNWTO. (2021c). *Covid-19 and Tourism*. Retrieved 01/14/2022 from https://www.unwto.org/covid-19-and-tourism-2020
- Paraskevas, A., & Quek, M. (2019). When Castro seized the Hilton: Risk and crisis management lessons from the past [Article]. *Tourism Management*, 70, 419-429. https://doi.org/10.1016/j.tourman.2018.09.007
- Pennington-Gray, L., Schroeder, A., Wu, B., Donohoe, H., & Cahyanto, I. (2014). Travelers' Perceptions of Crisis Preparedness Certification in the United States [Article].

Journal of Travel Research, *53* (3), 353-365. <u>https://doi.org/10.1177/0047287513496470</u>

- Pennington-Gray, L., Thapa, B., Kaplanidou, K., Cahyanto, I., & McLaughlin, E. (2011). Crisis planning and preparedness in the United States tourism industry [Article]. *Cornell Hospitality Quarterly*, 52 (3), 312-320. <u>https://doi.org/10.1177/1938965511410866</u>
- Pham, LDQ, Coles, T., Ritchie, BW, & Wang, J. (2021). Building business resilience to external shocks: Conceptualizing the role of social networks to small tourism & hospitality businesses [Article]. *Journal of Hospitality and Tourism Management*, 48 , 210-219. <u>https://doi.org/10.1016/j.jhtm.2021.06.012</u>
- Racherla, P., & Hu, C. (2009). A framework for knowledge-based crisis management in the hospitality and tourism industry [Article]. *Cornell Hospitality Quarterly*, 50 (4), 561-577. <u>https://doi.org/10.1177/1938965509341633</u>
- Radnić, A., & Ivandić, N. (1999). War and tourism in Croatia consequences and the road to recovery. *Turizam*, 47 (1), 43-54. <u>https://www.cabdirect.org/cabdirect/abstract/19991808850</u>
- Ritchie, BW (2004). Chaos, crises and disasters: A strategic approach to crisis management in the tourism industry [Article]. *Tourism Management*, 25 (6), 669-683. https://doi.org/10.1016/j.tourman.2003.09.004
- Ritchie, BW, Bentley, G., Koruth, T., & Wang, J. (2011). Proactive crisis planning: Lessons for the accommodation industry [Article]. *Scandinavian Journal of Hospitality and Tourism*, *11* (3), 367-386. <u>https://doi.org/10.1080/15022250.2011.600591</u>
- Ritchie, BW, & Jiang, Y. (2021). Risk, crisis and disaster management in hospitality and tourism: a comparative review [Article]. *International Journal of Contemporary Hospitality Management*, 33 (10), 3465-3493. <u>https://doi.org/10.1108/IJCHM-12-2020-1480</u>
- Ryu, K., Bordelon, BM, & Pearlman, DM (2013). Destination-Image Recovery Process and Visit Intentions: Lessons Learned from Hurricane Katrina [Article]. *Journal of Hospitality Marketing and Management*, 22 (2), 183-203. <u>https://doi.org/10.1080/19368623.2011.647264</u>
- Santana, G. (2004). Crisis management and tourism: Beyond the rhetoric [Article]. Journal of Travel and Tourism Marketing, 15 (4), 299-321. <u>https://doi.org/10.1300/J073v15n04_05</u>
- Schroeder, A., & Pennington-Gray, L. (2015). The Role of Social Media in International Tourist's Decision Making [Article]. *Journal of Travel Research*, 54 (5), 584-595. <u>https://doi.org/10.1177/0047287514528284</u>
- Schroeder, A., Pennington-Gray, L., Donohoe, H., & Kiousis, S. (2013). Using Social Media in Times of Crisis [Article]. *Journal of Travel and Tourism Marketing*, 30 (1-2), 126-143. <u>https://doi.org/10.1080/10548408.2013.751271</u>
- Schroeder, A., Pennington-Gray, L., Kim, H., & Liu-Lastres, B. (2018). Using the media's tweets to broaden previous conceptualizations of political travel risks [Article].

Tourism Management Perspectives, 26, 107-117. https://doi.org/10.1016/j.tmp.2018.03.001

- Setthachotsombut, N., & Sua-iam, G. (2020). The resilience development for the entrepreneurs tourism sector (RDETS) from the 2019 Coronavirus crisis in Thailand [Article]. *African Journal of Hospitality, Tourism and Leisure*, 9 (2), 1-14, Article 52. <u>https://www.scopus.com/inward/record.uri?eid=2-s2.0-</u> <u>85083591305&partnerID=40&md5=119722c2c56b331f4aa966110ee9bc8f</u>
- Sofyan, AS, Abror, A., Putra, TW, Muslihati, M., Sofyan, S., Sirajuddin, S., Katman, MN, & Darussalam, AZ (2021). Crisis and disaster management for halal tourism: a systematic review [Article]. *TourismReview*. <u>https://doi.org/10.1108/TR-08-2020-0390</u>
- Soliku, O., Kyiire, B., Mahama, A., & Kubio, C. (2021). Tourism amid COVID-19 pandemic: impacts and implications for building resilience in the eco-tourism sector in Ghana's Savannah region [Article]. *Heliyon*, 7 (9), Article e07892. <u>https://doi.org/10.1016/j.heliyon.2021.e07892</u>
- Sonmez, S.F. (1998). Tourism, terrorism, and political instability [Article]. Annals of Tourism Research , 25 (2), 416-456. <u>https://doi.org/10.1016/S0160-7383(97)00093-5</u>
- Vargas-Sanchez, A. (2018). Crisis situations in tourist destinations: How can they be managed? [Article]. *Enlightening Tourism*, 8 (1), 47-69. <u>https://doi.org/10.33776/et.v8i1.3439</u>
- Wang, J., & Ritchie, B.W. (2010). A theoretical model for strategic crisis planning: Factors influencing crisis planning in the hotel industry [Article]. *International Journal of Tourism Policy*, 3 (4), 297-317. <u>https://doi.org/10.1504/IJTP.2010.040390</u>
- Wang, J., & Ritchie, BW (2012). Understanding accommodation managers' crisis planning intention: An application of the theory of planned behavior [Article]. *Tourism Management*, 33 (5), 1057-1067. <u>https://doi.org/10.1016/j.tourman.2011.12.006</u>
- Webster, C., Ivanov, S., Gavrilina, M., Idzhylova, K., & Sypchenko, L. (2017). Hotel industry's reactions to the Crimea crisis [Article]. *e-Review of Tourism Research*, 14 (1-2), 57-71. <u>https://www.scopus.com/inward/record.uri?eid=2-s2.0-</u> <u>85047975863&partnerID=40&md5=d95e70d9f82541c85ad8d8f50f0afb86</u>
- Wut Tai, MX, Jing (Bill); Wong, Shun-mun. (2021). Crisis management research (1985–2020) in the hospitality and tourism industry: A review and research agenda. *Tourism Management*, 85. <u>https://doi.org/10.1016/j.tourman.2021.104307</u>
- Yang, E., Kim, J., & Pennington-Gray, L. (2021). Social media information and peer-to-peer accommodation during an infectious disease outbreak [Article]. *Journal of Destination Marketing and Management*, 19, Article 100538. <u>https://doi.org/10.1016/j.jdmm.2020.100538</u>
- Zenker, S., von Wallpach, S., Braun, E., & Vallaster, C. (2019). How the refugee crisis impacts the decision structure of tourists: A cross-country scenario study [Article]. *Tourism Management*, 71, 197-212. <u>https://doi.org/10.1016/j.tourman.2018.10.015</u>