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Study of Digital Marketing in Tourism and Hospitality Industry: A Literature Search Using the Keyword Co-Occurrence Mapping Network

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Abstract

Digital marketing is essential to the travel and hospitality industries. These days, it's a helpful tool for creating digital brand names and attracting and retaining clients. It has been demonstrated that using digital technology to implement marketing strategies, such as influencer marketing, social media marketing, and search engine optimization, benefits businesses. Through the process of monitoring customer behavior and assessing their preferences, digital marketing allows businesses to offer personalized and engaging content that encourages online referrals. Digital technology must be included into a number of sectors, including operations, services, communications, revenue management, distribution, and marketing, for the industry to be stimulated and reinvigorated. Hotel businesses need to reevaluate their current economic models and embrace digital marketing as an essential tool if they are to expand. The aim of the current research is to search the keywords in the database dimensions and creating co-occurrence mapping using VOSviewer software. Finally, the importance of digital marketing in tourism and hospitality industry is researched using research database and presented using term co-occurrence mappings.

Keywords: Digital marketing, hospitality industries, customer behavior, benefits businesses.

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INTRODUCTION

Digital marketing is a communication channel that focuses on particular audiences and enables real-time measurement and response. It makes use of digital technologies to connect with and interact with consumers, but it also poses difficulties in terms of managing information flow and possible rivalry. Using direct communication channels, digital marketing seeks to build a brand identity and draw in new customers. In today's engagement-focused market, organizations must adopt digital marketing methods in order to succeed.

Types of Digital Marketing

Digital marketing is the use of a variety of techniques and approaches to advertise goods, services, or brands via electronic media. Mobile marketing, social network marketing, using Facebook, Twitter, and Instagram, search engine optimization (SEO), pay-per-

click advertising (PPC), social media marketing, email marketing, content marketing, and affiliate marketing are a few of the forms of digital marketing that are covered in the abstracts. These tactics seek to connect with a certain audience, encourage behaviors like buying a product or subscribing to a newsletter. Digital marketing gives companies of all sizes the opportunity to become more visible, connect with more clients, and eventually boost sales.

Tourism and Hospitality Industry

The tourist and hospitality sector contributes significantly to the global economy by creating jobs, opening up investment opportunities, and earning foreign exchange. The sector does, however, also have to contend with issues like the harm that waste and excessive resource usage due to the environment. The hospitality industry is becoming more and more dependent on circular economy and sustainable

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development strategies to address these problems. Furthermore, the COVID-19 pandemic has had a significant effect on the sector, emphasizing the significance of crisis resilience and mitigation plans for firms in the hospitality and tourism sectors. Moreover, the industry stands to benefit from the potential for improved decision-making, customer experience, and service innovation with the adoption of AI technology. In general, the tourist and hospitality sectors' future depends on their ability to embrace technology, measure sustainability performance, and comprehend the traits of crisis-resilient firms.

Importance of Digital marketing in Tourism and Hospitality Industry

Digital marketing is essential for the travel and hospitality sectors in the digital age since it enables firms to interact and communicate with potential clients. Digital platforms like social media, SEO, and influencer marketing can help hotels and other tourism-related businesses attract and retain customers. Using digital marketing strategies, companies may promote their goods and services, enhance their websites and content, and analyze customer behavior and comments. In today's digital economy, digital marketing is becoming an essential instrument for expanding markets and fostering consumer loyalty, creating new opportunities for business growth. The COVID-19 pandemic has highlighted the importance of digital marketing, leading to a quick shift in marketing strategies toward digital. Generally speaking, digital marketing is essential to the tourism and hospitality industries for attracting new customers, retaining current ones, and adapting to changing market conditions. Thanks to modern innovations, travelers can now visit new locations. It is up to the traveler to choose their mode of transportation.

Digital marketing is quite beneficial to the hotel industry because it provides a range of strategies for attracting and retaining customers. For the travel and tourist industry, digital marketing is essential. Achieving a balance between digital and conventional marketing is crucial. Digital marketing is advised for client loyalty and market expansion. It's critical to monitor the immediate results of digital marketing. Digital technologies and marketing are helpful tools for growing a business in the travel and hospitality industry. Reactivity, adaptability, dynamism, accessibility, and engagement are essential elements of marketing strategies in the digital economy.

Technology is being embraced by the travel and hospitality industries. For corporate leadership stories, resilience in leadership is crucial. Digital marketing plays a significant role in increasing the promotion of tourism. A range of digital marketing tools are used by travelers to research possible tourism destinations. Absence of research on the application of digital marketing to encourage environmentally friendly travel—An integrated conceptual framework has been suggested

for additional investigation. Thanks to digital tools, the hospitality and tourism industry is growing quickly. Three significant trends are digital marketing, self-booking, and the online travel sector. The main objective of tourism websites should be to maintain the interest of visitors. Personalized content and user interaction are essential for e-WOM.

The way that travel and hospitality are advertised has been completely transformed by social media and digital marketing. Travel influencers are crucial for promoting travel and hospitality. The travel and hospitality industries depend heavily on digital technologies. Numerous digital technologies are used in the sector. Digital marketing outperforms traditional marketing in terms of success. Digital marketing makes it easier to understand customer needs and preferences. Digital tourism boosts earnings and improves the quality of services. - New digital channels for businesses involved in travel. Given the significance of having a digital presence, the tourism industry needs to go through a rapid digital shift. Digital marketing tools for travelrelated firms are recommended. The tourist sector must be flexible and ever-evolving.

Digital customer networks impact consumer decisions and perceptions. Customer service is enhanced and consumers are efficiently reached by digital marketing. For the tourism industry, digital marketing is essential. - Digital marketing can help the tourism industry overcome obstacles during the COVID-19 pandemic. Data mining and digital marketing have a significant impact on the potential of digital approaches in the tourism industry because of the dynamic nature of customer demands. Digitization helps businesses become more flexible and responsive. Social networking, the sharing economy, and customer reviews all have a favorable and substantial impact on the research question. Personalized offers and procedure charges are useful and may become practical in the future, albeit they do not materially alter this study.

Important factors influencing the preferences of travelers are the importance of digital marketing to the travel industry. The digital revolution in travel logistics offers a new means of communication between service providers and consumers. Customizing services is essential for gaining a competitive edge in the tourism sector. E-marketing has changed the travel and tourism sector, and digital marketing broadens your reach. The development of tourism can be divided into two main stages: innovation and digitalization. New technical conditions have brought about a revolution in both information technology and tourism research. The study provides a methodology for examining how e-marketing is used in the tourism industry. The aim of this study is to analyze the factors and complexity that affect emarketing adoption.

Convergent mobile technologies, AdWords, affiliate marketing, email marketing, SEA, SEM, SEO, and social media marketing are the top online marketing platforms. The emphasis now is on SMEs, B2B marketing, and agribusiness instead of MNCs, the software sector, and construction. Travel and digital marketing could form a strategic alliance that could propel the tourism sector forward. Digital marketing is leading to the emergence of intelligent tourism ecosystems." Companies in the travel and tourism sector can expand and overcome challenges by using a thorough, strategic approach to digital marketing. The importance of mobile-friendly applications and websites in drawing in younger users the way millennials use technology and social media has an impact on the travel business. Digitalization has brought about a significant upheaval in the tourism industry. Achieving broad reach necessitates proficient digital marketing.

The expansion and development of the travel and tourism industry depends heavily on digital marketing. Digital marketing strategies should be used by travel firms to attract and retain customers. Younger tourists are driving the tourism industry's technological advancements. Digitalization is the driving force behind significant developments in the travel industry. "Digital technologies offer opportunities for value growth and capture. Digital strategies can improve the marketing, distribution, and promotion of tourism destinations. - Actions have the power to increase awareness of a destination by influencing management and planning. The development of digital technologies has a significant impact on tourism. The digital transformation brings with it both advantages and disadvantages.

Low-cost, effective marketing products that enhance hotel websites and boost sales. The recommendation of certain measures to assess successful digital marketing tactics in travel-related venues Digital technologies have a big influence on how well tourists are served by customer service representatives. - Tourism service companies must welcome customer participation if they hope to achieve or surpass their clients' expectations. The digital revolution has had a big impact on the travel and tourism sector. Technological developments will keep having an impact on the tourism industry. Digital marketing is an essential part of international communication and marketing. New technology has changed the way customers think and act.

Travelers go to social media and online gurus for advice. Digital technology have had a major impact on activities related to tourism. Modern reservation systems are currently operational. The travel and tourism industry has seen a change because to digital technology. - In the digital age, time management skills are critical. Digital marketing has changed business tactics and affected industries. - Traditional and digital marketing are not the same. ICT is essential for SMEs in the tourism

industry to differentiate themselves from competitors. - Understanding the needs and competitors in the market should be the cornerstone of every value proposition.

The variable of digital marketing tools has a 75.2% influence on tourists' interest in visiting. The impact of digital technology on the decision-making of tourists. putting all application types under the "travel" heading. To remain competitive, the tourism industry must embrace e-commerce and digital marketing, and adapt to new approaches to sales and promotion. The tourism business has the potential to benefit from digitalization through higher sales, the sharing economy, and reduced process costs. It was found that social media, client testimonials, and tailored offers—the other potential drivers—had no discernible impact.

RESEARCH OBJECTIVE

- To conduct a keyword search in database dimensions
- 2. To create a map by term co-occurrence in software VOSviewer

METHODOLOGY

Numerous research studies have made use of techniques for term co-occurrence analysis with VOSviewer software and keyword search employing dimension databases. For instance, VOSviewer was used to examine bibliographic networks and show interactions between keywords and authors in the study on emerging infections by Shkola et al., This analysis provided insights into the mechanisms influencing the development of emergent diseases. Vo also worked on a project using Latent Semantic Indexing (LSI) and investigated novel methods for LSI computation in higher dimensions. The intention was to enable search engines to rank documents according to the unique meaning of multi-word phrases and to extend the use of LSI to higher dimensions. Desiana and Soebagyo also utilized VOSviewer to examine data on impromptu group discussions in math classes, finding themes and chances for additional research. These studies show that VOSviewer software and dimension databases work well for term co-occurrence analysis and keyword search across a range of study topics.

1. Keyword search in dimension database

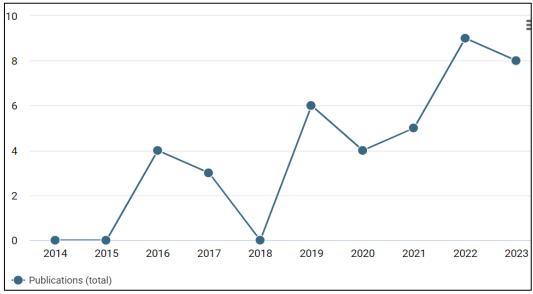
A dimension database, like Dimensions, integrates many forms of data, such as grants, patents, publications, citations, and clinical data, to solve a range of research-related issues. Its goal is to build an allencompassing representation of research objects in a heterogeneous network together with their relationships. Text mining and machine learning approaches are used to extract and standardize data from many sources in order to do this. In the context of data warehouses, the database facilitates data management and processing by allowing users to access and evaluate this integrated information. It offers a centralized platform for finding

and accessing research outputs, including funding, publications, citations, clinical trials, and patents. The availability of these databases makes it possible to

conduct in-depth analysis of publication information and looks at trends in the collaboration and area of study over time.

Table and figure showing publications in years

Tuble and figure showing publications in years										
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Publications (total)	0	0	4	3	0	6	4	5	9	8



Source: Dimensions.ai

Findings from Dimension database

- Highest number of publication in the year 2022,
 i.e. 9 publications
- 8 publications in 2023
- 6 publications in 2019
- 5 publications in 2021
- 4 publications in 2016 and 2020
- 2014, 2015 and 2018 are the years with no publications

Thus the dimensions database keyword shows that the initial years have less publication compared to the recent years in the field of hospitality and tourism industry that shows more publication can be done in the industry and there is a lot of research gap for the researchers in this industry.

2. Term co-occurrence in VOSviewer

For the examination of keyword co-occurrence, VOSviewer software is utilized. By examining the cooccurrence of terms in pertinent literature, it assists in identifying hotspots and future prospects for research in a given topic. Text keyword extraction based on Word2Vec and word co-occurrence, CO2 capture absorbers, depression during the COVID-19 pandemic, and keyword expansion utilizing mass diffusion are only a few of the investigations that have used the program. The process entails applying diffusion or clustering algorithms, building a word network based on cooccurrence associations, and extracting final or extended keywords. When VOSviewer is used instead of alternative statistical or graph-based methods, the findings demonstrate increased accuracy performance.

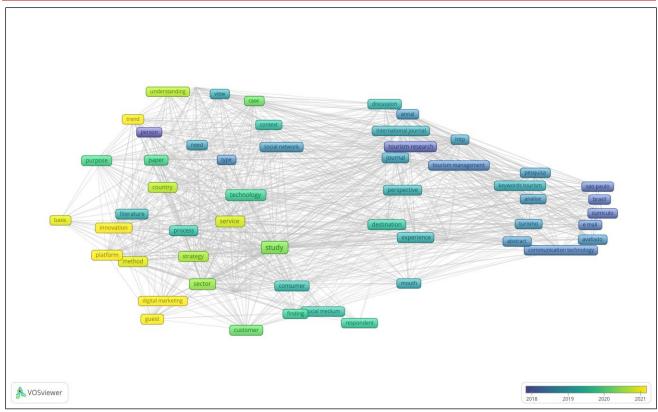
Terms in occurrence more than 5 times

S. No	Term	Occurrences >5	Relevance
1	Study	34	0.24
2	technology	17	0.33
3	sector	16	0.65
4	Tourism industry	15	0.34
5	Hospitality industry	15	0.46
6	service	15	0.44

S. No	Term	Occurrences >5	Relevance
7	perspective	13	0.25
8	process	13	0.72
9	paper	13	0.86
10	journal	12	0.26
11	strategy	12	0.66
12	customer	11	0.38
13	consumer	11	0.23
14	platform	11	1.55
15	destination	10	0.18
16	experience	10	0.30
17	country	10	0.68
18	innovation	10	1.26
19	method	10	1.20
20	Tourism research	9	0.30
21	purpose	9	1.55
22	guest	9	1.22
23	literature	9	1.28
24	Social medium	8	0.16
25	case	8	0.24
26	trend	8	0.85
27	http	8	0.77
28	context	8	0.25
29	finding	8	0.20
30	tourismo	7	1.85
31	understanding	7	0.70
32	International journal	6	0.34
33	annal	6	0.34
34	mouth	6	0.14
35	Social network	6	0.23
36	type	6	0.42
37	view	6	0.49
38	need	6	0.62
39	implication	6	0.55
40	Information technology	6	0.51
41	email	6	3.08
42	pesquiasa	6	1.96
43	basis	6	2.29
44	analise	6	1.96

Terms in occurrence equal to 5 times

S. No	Term	Minimum Occurrence =5	Relevance
1	abstract	5	1.79
2	Digital marketing	5	0.87
3	person	5	1.05
4	Key word tourism	5	1.87
5	Communication technology	5	2.50
6	brasil	5	3.42
7	curriculo	5	3.42
8	avaliado	5	3.18
9	Sau paulo	5	3.42
10	Tourism management	5	0.82
11	discussion	5	0.30
12	respondent	5	0.09



Source: VOSviewer software

Findings from VOSviewer

- A network Map is created by inserting text data, which is RIS format.
- Terms are extracted from Title and abstract from the paper.
- Binary counting method has been used for minimum occurrences of term is 5, out of the 5408 terms, 93 terms meet the threshold.
- For each of 93 terms, a relevance score will be calculated.
- Based on this score, the most relevant terms will be selected. The default choice is to select the 60% most relevant terms.56 number of terms to be selected.
- From the term co-occurrence mapping in VOSviewer software 2 clusters has been formed
- The terms are classified into 2 tables,
- The first table contains the 44 terms which are occurring more than 5 times
- The second table contains the 12 terms which are occurring 5 times.

CONCLUSION

Companies can use it to entice and retain customers, monitor their online activity, and assess their feedback and inclinations. The use of digital technologies and marketing strategies including influencer, content, social media, and search engine optimization are now essential to the industry's

expansion. With the incorporation of digital tools and applications in operations, services, communications, revenue management, distribution, and marketing, the sector has transformed into a technology-enabled service industry. Digital marketing also helps in building a digital brand identity and attracting new clients by leveraging huge data from social media and websites. It provides hotel companies with the opportunity to reevaluate their present business strategies and accelerate their expansion through the application of effective digital marketing strategies. Taking everything into account, digital marketing is critical to the growth, sustainability, and revitalization of the travel and hospitality industry.

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