The role of digital marketing in consumer behavior: A survey

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Abstract. This study reviews the recently published research on the role digital marketing plays on consumer behavior through three dimensions: (1) mobile apps, (2) social media platforms, and (3) electronic word-of-mouth. The main aim of this study is to shed light on the role digital marketing plays on consumer behavior with a specific focus on the tourism sector. This study will add to the body of knowledge and help in guiding future developments of digital marketing in tourism. The reviewed literature thoroughly showed the importance of digital communication for tourism competitiveness, eWOM, tourists’ behavior, and their use of social media and mobile applications. This study will also contribute academically by identifying some gaps in existing research and providing both plans for future research and probable road-mapping for decision-makers.

Keywords: Mobile apps, Digital marketing, Consumer behavior, eWOM, Social media.

1. Introduction

The world is witnessing major developments in communications due to the intensive spread of technology and information through the Internet through different mediums such as the smartphone, social media platforms, and the electronic word-of-mouth (Al-Maroof & Al-Emran, 2018; Al-Qaysi & Al-Emran, 2017; Al-Qaysi, Mohamad-Nordin, & Al-Emran, 2018; Alshurideh, Salloum, Al Kurdi, & Al-Emran, 2019). These technological advancements make the world look like a small village as these communication media are able to facilitate access and interaction with consumers (Alghizzawi, Salloum, & Habes, 2018; Malik & Al-Emran, 2018; S. A. Salloum, Al-Emran, Shaalan, & Tarhini, 2019). Consumers use digital communication channels to search for product information and services. It has become part of people’s everyday life (Stephen, 2016). The number of internet users worldwide has reached 4.1 Billion where 92% of them access the internet from their mobiles. Meanwhile, the number of active social media users recorded is at 3.56 billion (dazeinfo, 2018). Most people use digital marketing and social media intensively through their role as consumers of goods and services as they search for information and data on the products consumed in addition to communicating with others about their experiences (S. A. S. Salloum & Shaalan, 2018). Therefore, this responds to the marketers of this fundamental transformation through the increased use of digital marketing channels. In fact, by 2020, it is expected that approximately two-thirds of global spending will be on advertisements streamed on digital channels (Park & Lee, 2008). Therefore, consumer marketing in the future will be implemented to a large extent in digital environments, particularly social media and mobile phones.

2. Critical analysis of previous related studies

Providing a critical analysis for the studies under examination is an important part of any review study (Al-Emran, 2015; Al-Emran, Mezhuyev, & Kamaludin, 2018; Al-Emran, Mezhuyev, Kamaludin, & Shaalan, 2018; Al-Emran, Zaza, & Shaalan, 2015; Al-Saedi, Al-Emran, Abusham, & El Rahman, 2019; Alghizzawi, Ghan, et al., 2018; Alghizzawi, Salloum, et al., 2018; Gulbahar & Yildirim, 2015; M. Habes, Alghizzawi, Salloum, & Ahmad, 2018; Mohammed Habes, Alghizzawi, Khalaf, Salloum, & Ghani, 2018; Kim, Joo, & Lee, 2016; Litvin, Goldsmith, & Pan, 2008; S. A. Salloum & Al-Emran, 2018; Stephen, 2016). In this study, a literature review was conducted to provide a broad understanding of the topic. The tourism sector is one
of the largest tributaries to an economy. It plays an important role similar to the industrial sector of the world’s economy. Many countries depend on tourism as their major source of income in order to develop investments and support their overall economy (Magatef, 2015). Digital marketing can be used to make extra effort to affect tourist behavior. In Figure 1, the chart explains the effect of different digital marketing types on consumer behavior.

![Figure 1. The effect of digital marketing on consumer behavior](image)

3. **The impact of smartphones on tourism**

Smartphone is a consumer product that received international acceptance in a short period of time (Al-Emran, Alkhouardy, Mezhuyev, & Al-Emran, 2019). Smartphones are not only phones used to stay connected with other people. It can be used in every part in people’s daily lives (Al-Emran, 2014; Al-Emran, Mezhuyev, & Kamaludin, 2018; Al-Emran, Mezhuyev, Kamaludin, & AlSinani, 2018; Al-Emran & Shaalan, 2017). For marketers and companies in different sectors, smartphones play an important role (Persaud & Azhar, 2012). There can be a new revolution in the tourism sector from the emergence of the smartphone which offers a new medium to convey knowledge and services (Hew, Leong, Tan, Lee, & Ooi, 2018). Smartphones have applications that act as tools to support its functions; therefore, the marketing of tourism services and products can be done through these applications in order to offer new features to consumers (Šimunić & Laškarin, n.d.). The digital means provided by smartphones are in a wide range of templates that can be used for advertising, enjoyment, and applications. These direct messages to consumers will affect tourists’ destination choice (Al-Emran & Salloum, 2017; M. Habes et al., 2018; S. A. Salloum, Al-Emran, Monem, & Shaalan, 2017; S. A. Salloum, Al-Emran, & Shaalan, 2016, 2017a; S. A. Salloum, AlHamad, Al-Emran, & Shaalan, 2018). Tourism applications are important for the enhancement of the tourism industry. The perceived ease of use and perceived usefulness of smartphone applications have a positive impact on consumers (Alghizzawi, Ghani, et al., 2018). Tourism applications that can be accessed through smartphones will be the new way of marketing for the hotel industry and tourism agencies like Wego, Booking, and Trip Advisor (Morosan & DeFranco, 2016). An online survey conducted by TripAdvisor’s Trip Barometer and the global research company Ipsos in 2015 found that 45% of connected travelers make their bookings from smartphones and they are ready to use it with booking functionality, while 34% use it for check-in reasons (Filofteia, 2016). According to Artyom Dogtiev (2018), in the United States, young people under the age of 18 spend an average of 3.2 hours per day using digital media. The other details are shown in Figure 2.
The majority of marketers in the fields of tourism and tourism services have begun to develop their services in the form of smartphones and iPads applications. These applications help diversify their services and provide information on tourist destinations and brands promoted by marketers depending on their market needs (Alghizzawi, Ghanı, et al., 2018; Artyom Dogtiev, 2018; Mhamdi, Al-Emran, & Salloum, 2018; S. A. Salloum, Al-Emran, Abdallah, & Shaalan, 2017; S. A. Salloum, Al-Emran, Monem, & Shaalan, 2018; S. A. Salloum, Al-Emran, & Shaalan, 2017b; S. A. Salloum, Mhamdi, Al-Emran, & Shaalan, 2017). All of these factors exist due to the proliferation of phones and smart devices applications in general, not to mention the high rate of individual adoption towards the services of applications by loading them on their smartphones (Artyom Dogtiev, 2018) as shown in Figure 3. Thus, it becomes imperative to use smart services and applications in the presentation of tourism services and trademarks of marketers that contribute to the formation of consumer behavior in the way that it obtains service (Mohammed Habes, Alghizzawi, et al., 2018; S. A. Salloum, Al-Emran, & Shaalan, 2017a, 2018, S. A. Salloum & Shaalan, 2018a, 2018b).

Consumers’ behavior towards phone applications is enhanced by providing a range of features that are not available in conventional marketing tools such as the amount of data and the variety of templates in which information is delivered (Alghizzawi, Salloum, et al., 2018; M. Habes et al., 2018; S. A. S. Salloum & Shaalan, 2018). This can be further illustrated in Table 1 that was adapted from Filofteia (2016). The marketing needs will determine the consumers’ behavior and time to browse the applications to suit their needs and tendency (Filofteia, 2016). Marketers have sought to diversify these marketing templates to meet the needs of all consumers as the widespread existence of mobile apps offer huge power and service for consumers, and is important to hotel and travel agencies (Filofteia, 2016).
4. The impact of social media platforms on tourism

All types of social media platforms now try to achieve the objectives of different sectors in the world. Moreover, the presence of many applications in social media has contributed to changing the traditional ways in marketing and communication (Alghizzawi, Ghani, et al., 2018; Alghizzawi, Salloum, et al., 2018; Mohammed Habes, Salloum, Alghizzawi, & Alshibly, 2018; S. A. Salloum, Maqableh, Mhamdi, Al Kurdi, & Shaalan, 2018; S. A. Salloum, Mhamdi, Al Kurdi, & Shaalan, 2018). According to the statistical report in 2019, the global social media use a wide range of social media platforms (The Statistics Portal, 2019) as shown in Figure 4. Social media have evolved in the past few years to encompass a variety of input capabilities, various features and unlimited Internet access, and powerful location awareness function. Importantly, the increased capabilities of the mobile application support thousands of social media which extend the functionality of social media to a wide range of information services such as specialized information search and marketing (Fotis, Buhalis, & Rossides, 2011; M. Habes et al., 2018). Indeed, recent studies indicate that social media and their apps have the potential to assist travelers by providing easy access to information anytime and (almost) anywhere. From a very small base, marketers have already begun to explore a wide array of approaches towards leveraging the social media medium (Galan, Lawley, & Clements, 2015). Marketers in the field of tourism have made attempts and experienced both early and encouraging successes and helpful and informative bombs. Direct-to-consumer advertising has understandably become the accepted norm of social media marketing because it is well understood as the direct, linear descendant of old-style advertising messages that have always been pushed at customers from helping tourists find resources important to them at the moment they need them; to assisting people with finding critical information whenever and where ever they need it (Alghizzawi, Ghani, et al., 2018; Bazazo & Alananzeh, 2016).

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage (%)</th>
</tr>
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<tbody>
<tr>
<td>Communication</td>
<td>70.16</td>
</tr>
<tr>
<td>Games</td>
<td>48.11</td>
</tr>
<tr>
<td>Widgets</td>
<td>32.78</td>
</tr>
<tr>
<td>Media video</td>
<td>25.18</td>
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<tr>
<td>Travel local</td>
<td>21.01</td>
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<tr>
<td>Tools</td>
<td>20.04</td>
</tr>
<tr>
<td>Music audio</td>
<td>18.97</td>
</tr>
<tr>
<td>Social</td>
<td>16.12</td>
</tr>
<tr>
<td>Finance</td>
<td>13.02</td>
</tr>
<tr>
<td>Sports</td>
<td>11.22</td>
</tr>
<tr>
<td>Weather</td>
<td>10.32</td>
</tr>
</tbody>
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Table 1. Time spent on mobile devices and mobile app categories used (percentage %) (Filofteia, 2016)

Figure 4. Number of social media users worldwide (from 2010 to 2021) (in billions) (The Statistics Portal, 2019)

According to Abd Al-sameeM (2012), it is recommended to increase the efficiency of using social media platforms in tourism marketing for its many advantages. In their study, all respondents accepted the idea of using social media to promote tourism in Egypt. Social media platforms play an important role for
consumers in providing travel information and services such as lists of hotels, maps, and tourist destinations (Leung, Law, Van Hoof, & Buhalis, 2013). Moreover, Miguëns, Baggio, and Costa (2008) confirmed the importance of social media platforms in promoting tourism destinations. According to that, managers in the tourism sector need to recognize this important role; and thus, make extra efforts to develop their usage of interactive technologies in order to improve their position in the market.

5. The impact of eWOM on tourism

Electronic word-of-mouth (eWOM) is the most important topic in e-marketing, social marketing, and consumer behavior in general (Mohammed Habes, Salloum, et al., 2018). This is normal as users rely on Internet services greatly. eWOM is defined as all communications directed between consumers through Internet-based technology where people spread their ideas and opinions through the Internet. As it is clear from the definition, eWOM is a transfer of information between consumers without the control of a particular party on the dialogue to exchange experiences and reduce the risks that may occur with the consumer with the possibility of this dialogue going through social networking platforms, hotel sites, and electronic tourism services. Many researchers in different studies confirm that word-of-mouth plays an increasingly important role in consumers’ attitudes. With the growth of online social media platforms for communication like Facebook, Twitter, and Snapchat, the eWOM has become a serious topic to marketers and business managers. The effect of eWOM on tourism choice and global branding is growing day after day as online travel reviews written by users are ever more available and are used to inform others about travel-related decisions, especially services (El-Sherbiny, n.d.). More than a third of travelers visit the online community to see others’ reviews before making any purchase as they think these reviews are helpful in facilitating their purchase decisions. 34.7 % of total online spending is related to tourism. A recent survey also indicated that more than 74% of tourists use the opinions of other travelers as a source of information when planning for trips (Jalilvand, Ebrahimi, & Samiei, 2013). There is a relationship between electronic evaluation and sales where increasing electronic feedback by 10% increases the percentage of booking and sales by 5%. Therefore, Ye, Law, Gu, and Chen (2011) recommended the importance of shedding light from the tourism sector on the increasing numbers of users of the Internet because of its positive effects. eWOM’s positive effect on tourists’ behavior gives incentive to tourists to visit Islamic sites in Iran (Jalilvand et al., 2013).

6. Conclusion

Digital marketing through mobile technologies, social media platforms, and eWOM has become a part of our global lives and serves as the new way for communication and marketing (Alghizzawi, Ghani, et al., 2018; Alghizzawi, Salloum, et al., 2018; Bazazo & Alananzeh, 2016; Bazazo, Alananzeh, & Taani, 2016; M. Habes et al., 2018; Mohammed Habes, Alghizzawi, et al., 2018). Recently, the field of marketing has become more developed due to the impact of high global competition on many sectors through new technology. These factors change customers’ behavior and tourists’ thinking, not like the old way of marketing and advertising. The new large templates of digital technology provide consumers pleasure, an abundance of information, and many tourism services. With the revolution in technology and the habits of the new generation, it is clear that people today need to adopt the new way to communicate with consumers, especially in the tourism sector because the choices of destination are not like before (Gao & Koufaris, 2006; Mistilis, Buhalis, & Gretzel, 2014; Penni, 2015). Finally, eWOM through digital surveillance influences the behavior of tourists and their use of social media and mobile applications. The results in this article are part of this new wave of research and provide sufficient data to keep the attention on the role digital marketing plays in consumer behavior from the perspective of tourism.

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The Statistics Portal. (2019). *Number of social media users worldwide from 2010 to 2021 (in billions)*.