Technological mediation in the future of experiential tourism

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Abstract

Purpose – This article considers the role that technology may play in the future of experiential

tourism. This viewpoint paper begins to question future developments in technological

mediation and how these may challenge our view of experiences and their construction in a

period of immense and rapid technological development.

Design/methodology/approach – A short viewpoint article driven by theoretical perspectives

in the existing academic literature and the authors' personal stance on the future of experiential

tourism.

Findings – This article suggests that while there is considerable research into the role and

application of technology within tourism, there is a lack of future-orientated debate. The views

expressed within the article argue that three potential directions exist for the future of

technological mediation in experiential tourism: mass acceptance and customisation;

experiential convergence; or 'rewinding the clock', each with significant implications for the

management of technological mediation in experiential tourism.

Originality/value – The paper provides an initial insight into future directions of the tourism

industry in a period of immense technological development. Based on existing theoretical

perspectives, these viewpoints indicate three potential routes for the industry and act as a

catalyst for further dialogue within tourism scholarship.

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Introduction

The rapid development of technology has revolutionised the tourism experience. As suggested

by Benckendorff et al. (2014), contemporary technology can play a wide variety of roles within

travel and tourism. It can enable and facilitate, enhance and protect, or act as a substitute for

elements of the experience that are lacking. The adoption of technology within tourism has also

inspired changes in consumer behaviour. Coussement and Teague (2013) argued that

innovations in technology have led to constantly connected consumers which have

reconfigured the relationship between travellers and tourism providers. This has inspired

organisations, and the wider industry, to consider the role of technology as a constant mediator

in the tourism experience. For the purpose of this paper, mediation refers to the various points

of interaction (both tangible and intangible, personal and non-personal) which broker an

engaging and quality tourism experience (Jennings and Weiler, 2005). Increasingly, however,

this mediation has taken a technological form through mobile, handheld, virtual or internet-

based platforms (Tussyadiah and Fesenmaier, 2009). This, in turn, has made it particularly

challenging to predict how the future use and management of mediation may impact the

industry.

The range of technological mediation in tourism is significant and has grown to include mobile-

enabled platforms to provide information (Morosan and DeFranco, 2016; Wang et al., 2014);

fixed touch-points within tourism experiences such as visitor attractions (Rey and Casado-

Neira, 2013); e-services to facilitate traveller research, booking and management (Barrutia and

Gilsanz, 2009); social media and user-generated content (Haddouche and Salomone, 2018;

Hvass and Munar, 2012); or virtual/augmented reality to add additional layers to tourism

experiences in destinations (Jung et al., 2015; Scarles et al., 2016; Younes et al., 2017).

However, despite the growth in technological innovation, there is a surprising lack of scholarly

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discussion on the future directions and associated implications for the travel and tourism

industry.

While significant academic discussion has revolved around the role of technology and current

innovations in the sector less has been considered from a futures perspective. This is interesting

considering the wide-reaching implications of technology for future tourism experiences.

Particularly relevant to this Special Issue is a need for academic discussions to consider future

directions for technological mediation in tourism. In this viewpoint article, an initial discussion

of existing technological mediation perspectives acts as a theoretical framework to begin the

debate. Thereafter, three future directions have been identified and considered to encourage

conversations into the future of technological mediation in tourism experiences.

Technological Mediation in Tourism Experiences

An understanding of the importance of technological mediation is well established in the

literature. From a service management perspective, Schumann et al. (2012) provided a

distinction between services which were fully-automated (such as self-service platforms) and

delivered services (where technology exists alongside other features). These delivered services

use technology for customisation, personalisation and to engage consumers in co-creative

activity – which can have significant effects on experiential value (Buonincontri et al., 2017;

Mathis et al., 2016). Within tourism scholarship, Tussyadiah (2014) argued that effective

control over how tourists interact with the physical, social and media elements of a tourist

destination is a fundamental feature of experience design. This control can be enacted through

various forms of mediation. This is supported by Gretzel and Jamal (2009), who suggested that

emerging 'creative tourists' are empowered to construct their experiences iteratively through

engagement with not only physical structures but also interactive technologies. Such

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perspectives reignite the need to conceptualise technology, not only as a tool but as a powerful

mediating force that can have significant influence over tourism experiences.

Critical to this discussion is an awareness of the diversity in technological mediation in the

tourism industry. Neuhofer et al. (2014) identified a hierarchy of technology-enhanced tourism

experiences from conventional (low technology-enabled and staged experiences) to

technology-empowered experiences (high interactivity and pervasive technology-use) to

benchmark tourism organisations for their technology provision and experiential aspirations.

As the industry is diverse and technology-use within the various sectors of travel and tourism

are varied, there is no singular way to predict technological mediation throughout the collective

industry. However, the directions discussed later in this paper have been kept inclusive to

acknowledge the variety that exists within the industry.

The powerful mediating role of technology has seen considerable attention in the academic

literature, particularly for its implications for enriching tourism experiences. Wan (2018)

suggested integrating the psychological components of memorable, meaningful experiences

into technology design so that platforms better reflect the needs and wants of consumers.

Similarly, Zhang et al. (2015) suggested that environmental stimuli (afforded by interactive

technology) can lead to customer learning, social integration and hedonic value within an

experience. Such perspectives advocate the need to view technology as a means, to not only

achieve business benefits but also as a fundamental component of the consumer experience.

This is particularly true in recent research that debates the importance of technological

mediation for targeting and engaging certain audiences, such as Generation Y (Zhang et al.,

2017).

However, there are complexities associated with technological mediation. For example, Lu et

al. (2015) suggested that mobile-enabled applications in the tourism experience can have an

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empowering effect for consumers through enhanced access to information and control over

elements such as research, bookings and sharing platforms. However, Minghetti and Buhalis

(2010) argued that although consumers in the developed world have ready access to

technology, this does not imply that they use it wisely. Lack of trust, knowledge, skills or

capabilities can hinder consumer engagement with technological platforms and as such may

compromise the extent to which they feature within the experience. As a mediating force, it is

therefore unsurprising that the industry has diverted significant capital into designing

innovative technologies; however, there are inherent challenges in relying too heavily on

technology as a sole mediator.

Beyond the experiential benefits of enhanced technological mediation, there are operational

advantages in adopting such technologies. Namely, there are potential efficiency benefits

(Alford and Clarke, 2009; Buhalis and Law, 2008), value-adding prospects (Chathoth et al.,

2016; Peña et al., 2014) and opportunities to protect core resources – such as cultural heritage

(Gombault et al., 2016; tom Dieck and Jung, 2017). The proliferation of academic research in

these areas is reflective of its growing importance within the tourism industry, however, more

focus is needed to consider future directions.

Future Directions

Despite the plethora of academic arguments surrounding technological mediation in tourism,

this area is primed for further debate from a futures perspective. In considering where

technology and its management may proceed in future generations, the following three

directions, illustrated in Figure 1, provide avenues to expand current discussions. As

technology continues to become advanced, intuitive and reactive, the industry may choose to

undertake mass acceptance and customisation to utilise technological-mediation to its fullest

through adoption and investment. Alternatively, the industry may elect to adopt a middle-

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ground approach through experiential convergence, with the further blurring of the division

between the physical and virtual tourism experience. Finally, and perhaps most controversially,

may be the industry's choice to 'rewind the clock' and actively remove technological mediation

from certain experiences. The following discussion considers each of these three directions to

provide a proving ground for future academic debate.

[INSERT FIGURE 1 HERE]

Mass acceptance and customisation

The first direction which the industry may elect to follow is mass acceptance and customisation.

Driven by reacting to technological trends occurring in society, this direction would reposition

technology as the main influencer within experiential tourism. As such, tourism providers

would need to accept and constantly adapt to emerging technology as it becomes available.

This is particularly the case with cutting-edge innovations in robotics, artificial intelligence and

ubiquitous systems. Furthermore, organisations of the future would invest heavily in mediation

that can be customised to various consumer groups (namely Generation Z, Generation Y and

increasingly senior travellers). This future direction would place significant focus on

automation and self-service technologies as mediators within current experiences to adapt to

wider consumer trends. However, such a move would bring with it a host of management

challenges for the sector.

From an operational standpoint, such an approach would call for further focus on dedicated

expertise in-house within tourism organisations to manage and maintain their technology

provision. While this may sound commonplace, a number of authors have already indicated a

skills gap in tourism with regards to attracting and retaining technology specialists (Baum,

2006; Hojeghan and Esfangareh, 2011; Maurer, 2015). As such, a future challenge for the

industry would not only be adapting to the changing technological landscape but also to ensure

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that the tourism workforce has the skills to react to these developments. Such a shift may

encourage further outsourcing of technological expertise and a need for enhanced collaboration

with stakeholders at various stages of the tourism supply chain (such as strengthening links

between technology designers, manufacturers, suppliers, businesses and users).

In line with a need to consider expertise and capabilities, the industry of the future may need

to consider the direction of business expenditure. Namely, considering heavy investment not

on individual platforms but on collective interfaces with the most potential for customisation.

For example, in a museum setting, future strategies may shift from purchasing distinct

touchpoints (each with different capabilities and levels of maintenance) to designing

interlinked holistic systems which can be simultaneously updated, customised and managed

internally. Conversely, a key future priority may also involve viewing the process of

technology upgrading as cyclical rather than periodic. While such an approach would indeed

have a high initial cost, the long-term maintenance implications and consistency-benefits to the

visitor experience could be substantial.

Experiential convergence

A second potential route for the industry could involve further experiential convergence. As a

'middle ground' of the two other directions discussed in this paper, this route can already be

seen developing in the industry now. From this perspective, the divide between the physical

and digital tourism experience would continue to blur. As a result, future tourism activity is

likely to see this merging of tangible and technological landscapes within the travel experience.

This direction would lead to tourism organisations to further invest in technologies which

complement or extend the work of the human resource and move towards hybridisation of

experiences. This route aligns closely to the rapidly proliferating literature in experiential co-

creation in which technology can be seen as a tool to support customer involvement,

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engagement and dialogue within the tourism experience (Campos et al., 2015; Frochot and

Batat, 2013). Examples of this could involve growth in geo-location systems that can guide

visitors within locations and encourage active participation in the wayfinding. As identified by

Skinner et al. (2018) activities such as geocaching are particularly well-placed to use

technology to engage broader audiences and add additional layers to the experience. In shifting

this perspective into the future, tourism businesses may consider the operational potential of

technological mediators that most effectively act as co-creative tools.

A particularly interesting area that would align closely with this direction, is a renewed focus

on multi-sensory engagement and hybridised 'experiencescapes' (Mossberg, 2008; O'Dell,

2007). Tourism providers of the future may focus more on the environmental aspects of their

experience and reframe their experiential spaces so that travellers seamlessly move between

tangible and intangible opportunities. Examples of this are already emerging in the industry,

where technology is being used to add sensory dimensions to traditionally static experiences.

A project that illustrated this trend was the Sensorium exhibition at Tate Britain in London.

This temporary exhibition brought classic artworks from the collection and invited designers,

innovators and technologists to add technology-based touchpoints linked to each artwork.

Innovations in sound, lighting and sensation were added in an attempt to engage the multiple

senses of visitors and engage individuals more deeply with the artwork (Davis, 2015). While

an isolated example, future tourism operators may continue to utilise technology to add

additional sensory layers to the travel experience.

'Rewinding the clock'

A third route perhaps less travelled in current discussions on technological mediation, would

be to effectively 'rewind the clock' and consider removing technology from certain

experiences. Many would argue that this is an unachievable goal in a constantly connected

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digital landscape, however, there is an argument for returning, at least to some extent, to simpler tourism experiences that focus on human contact, interaction and authentic dialogue. In contrast to the routes suggested previously, this future scenario would require a bold stance from tourism managers to shun technological interfaces in favour of the human resource. If we reflect on a typical tourism experience, rarely will the entire visitor journey be completely technology-free. This seems a radical departure now but perhaps there is an opportunity in returning to an experience which is mediated purely by people. Such a move would reignite the significance of personal connections, peer-to-peer contact and a sense of communitas in future tourism experiences. While of course, elements of this exist now, it is quite a transformational thought to imagine entire experiences as being technology-free.

Critics may argue that this is just fallacy that it is impossible to rewind the clock and detach from technology. However, as the works of Dickinson et al. (2016) and Neuhofer and Ladkin (2017) have begun to suggest, disconnection from the digital world does hold an appeal for certain travellers. Such moves would indicate that even if we are now digital natives, perhaps future travellers may choose to avoid technological mediation and actively pursue experiences that provide solace from connectivity and virtual interactions. Termed by Li et al. (2018) as digital-free tourism, this concept is growing in tourism scholarship for the potential benefits and opportunities of limiting technological mediation in certain spaces. Equally, this stance poses some interesting yet challenging questions for practitioners in tourism who may, in the future, need to examine their value propositions and question what would happen if they removed the technology altogether. Undeniably, basic utilities and back-office IT systems are paramount, but for customer-facing technologies, could they be reduced, stripped back or returned to service personnel? The more we think about how much of the tourism experience can now be mediated by technology, the more we realise that experiences have become increasingly automated. While these undoubtedly have implications for efficiency (both

financially and for time-saving), has this rapid development begun to compromise the deeper

level meaning or significance of tourism experiences? From a futures perspective, perhaps the

most intriguing prospect for the industry is to consider how we can use technology more

selectively or remove it from certain environments.

Conclusion

This article sought to consider three potential directions for the future of technological

mediation in tourism experiences. Considering rapid and progressive technological

development, tourism businesses may elect to follow one of the routes identified within this

paper and adapt their practices to accommodate the shifting landscape. A mass acceptance and

customisation strategy would see organisations routinely adopting and investing heavily in

cutting-edge technologies in an attempt to accept new innovations. An alternative direction

could involve the industry engaging in experiential convergence, whereby organisations

manage technological mediation that blurs the division between the physical and virtual

experience. Finally, tourism businesses may elect to 'rewind the clock' by actively removing

layers of technological mediation within the tourism experience. Each direction brings its own

challenges and complexities, however only with open and future-orientated discussions can the

industry begin to strategically plan for the inevitable growth of technological capabilities.

While these are individual viewpoints at this stage, there is already evidence of such directions

emerging in the industry. As technology has become firmly embedded into the social fabric of

travel and tourism, a future-orientated discussion is not only timely but necessary. Despite

being drawn from an individual, subjective viewpoint, the directions identified in this paper

will hopefully encourage debate and provoke further discussion as to the future role technology

may play as a mediator in tourism experiences, and the inherent challenges for the sector in

reacting to this phenomenon.

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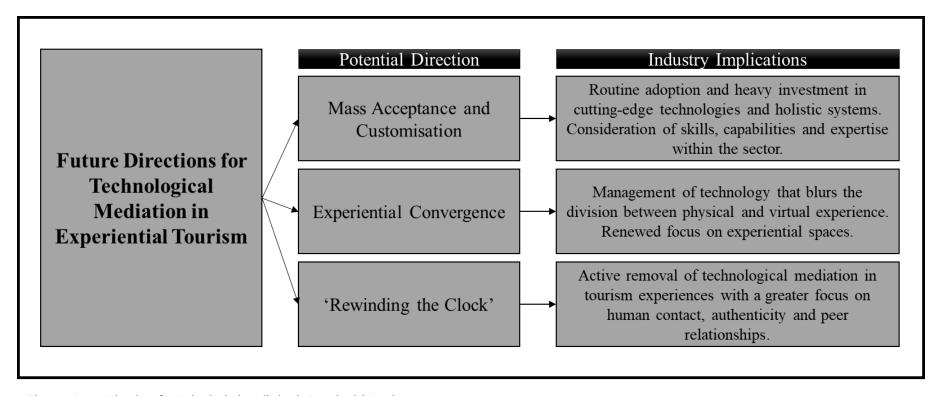


Figure 1. Future Directions for Technological Mediation in Experiential Tourism

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