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SMITH, DR. WAYNE W.; PAN, DR. BING; LI, DR. XIANG (ROBERT); and ZHANG, DR. LIZUAN, “TIPS AND TRAPS: METHODOLOGICAL ISSUES RELATED TO CONDUCTING AN ONLINE TRIP PLANNING STUDY” (2016). Travel and Tourism Research Association: Advancing Tourism Research Globally. 17.
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Tips and Traps: Methodological Issues Related to Conducting an Online Trip Planning Study

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ABSTRACT

This study examines methodological issues related to studying American college students’ online travel planning behavior. A mixed method approach, which integrated think-aloud protocol combined with the process tracing method, log analysis and survey techniques, was evaluated in this paper. In previous studies, this methodological approach has been subject to issues of reliability and validity that were addressed in the design of the current study. Specifically, questions were related to whether the experiment used in this study would yield results comparable to the decision-making and search processes respondents would engage upon on their real-life trip planning. The purpose of this paper was to discuss how this study has evolved from previous work in this area in order to increase reliability and validity. Issues regarding the artificiality of the environment are addressed in this paper. Overall it was found that the qualitative-based, mixed-method approach used in this study was deemed appropriate and has resulted in delivering insights into the phenomena of online travel planning.

INTRODUCTION

The Internet has changed the landscape of the tourism industry. Compared with other types of sources and transaction channels, the Internet contains a larger amount of information, is more interactive, can be customized, and provides highly tailored content (Newhagen & Rafaeli 1996). In the United States, online booking has exceeded all other types of travel booking methods, including phone booking and travel agents (Milligan...
However, online travel planning remains a frustrating and unpleasant experience for some travelers because of the usability problems associated with the Internet as a travel information source (Pan & Fesenmaier 2006).

Bishop and Starr (1996) argued that a thorough understanding of information search needs to be achieved, without which appropriate tourism information delivery can hardly be achieved. Thus, it seems that a better understanding of travelers’ online travel planning experiences and needs is of both theoretical and practical significance. To this end, the authors conducted a quasi-experiment to examine American college students’ online travel planning behavior. A mixed method approach, which integrated think-aloud protocol combined with a process tracing method, log analysis and survey techniques, was used in the study.

This methodological approach has, in previous studies (Pan & Fesenmaier 2006; Backlund, Skaner, Monthgomery, Bring & Strender 2003; Vining & Fishwick 1991) been subject to issues of reliability and validity that were addressed in the design of the current study. Specifically, questions are related to whether the simulation used in this study would yield results comparable to the decision-making and search processes respondents would engage upon on their own. While the technique in previous studies (Pan & Fesenmaier 2006; Backlund et al. 2003; Vining & Fishwick 1991) has been found to deliver desirable results, the potential artificiality of the environment had to be addressed. The purpose of this paper is to discuss how this study has attempted to evolve from previous work in this area in order to increase reliability and validity.

METHODS

China was selected as the destination for this study, so that participants of this study might share a similar level of familiarity with the destination. Plus, as one of the largest international travel destinations, China provides a wide array of attraction options for travel planners and allows sufficient variation in itineraries. The respondents were instructed to plan a week-long (Dec. 15th to 22nd) trip to China for their winter break. The subject needs to find out the cities the places in each city s/he plans to visit. Due to time limitation, the subject was asked not to worry about airline tickets and hotel rooms and also s/he has unlimited budget; instead, the subject was asked to focus on the cities, attractions, and restaurants the respondent was interested.

In total, 36 undergraduate students from a southeast public university were recruited with one extra credit for a course as an incentive. Most of them are sophomore, junior, and seniors in business-related majors. The respondents were asked to fill out an online survey first. The goal of this pre-exercise survey was to collect each subject’s individual characteristics, including their travel experience, information search styles, and their organic image about China.

In order to familiarize the respondents with the think-aloud method, prior to their search task, a training session was performed in order to coach the respondents to talk about their thoughts (Ramney & Boren, 2001). In the present case, the subject was asked to exercise think-aloud protocol by finding out the local weather. After that, a travel planning exercise to China was conducted; lastly, the subject filled out a post-exercise survey regarding their levels of satisfaction toward their travel information search and trip planning process. The post-exercise survey measures respondents’ process and outcome satisfaction (de Bruijin and de Vreede, 1999), induced images about China, and
the differences between the trip planning in the lab versus their real-life travel planning. The total session lasted less than one hour, in which the travel planning exercise was limited to 50 minutes. Because of technical difficulties, the videos for two respondents were not captured.

**METHODOLOGICAL ISSUES**

In the attempt to address issues pertaining to the artificiality of the environment, several key steps were taken to ensure that the respondent was as relaxed and in the proper mind frame to go through a normal search session and decision-making process. The first technique was to have the respondents fill out an online questionnaire upon arrival which informed them about their destination. There are different approaches about whether or not to inform the respondents about their final destination in a lab setting. Vining and Fishwick (1991), in a study exploring outdoor recreation site choice, removed any identifying features of locations in order to avoid creating a preconceived notion of the location and affect destination choice. In our study, the pre-test was designed in a manner which the respondents were aware of their destination in order simulate a real-life decision making process. Furthermore, after the pre-test though, the respondent was left alone during the exercise in order to engage with the thought of China in order for them to start to form and implement destination search strategies based on their prior knowledge about China. This framework is more reflective of a normal environment.

Secondly, when the pre-test was completed, the interviewer helped the respondent become familiar and comfortable with the think aloud process by having them search for the next day’s weather forecast. This choice of finding a non-threatening topic further worked to ensure that the respondent was comfortable with the recording technology and the think aloud processes. This was based on the procedures outlined by Backlund et al. (2003) who found that in a study of doctors, usage of a practice case as a method for getting respondents into the proper mind frame for the simulation was highly effective. This procedure also allowed the respondent to become used to the interviewer as being a non-threatening observer.

Last, students were told to focus only on choosing an itinerary for the trip and not to worry about transportation and accommodation choices. This procedure was outlined by Fonteyn, Kuipers and Grobe (1993) who argued that simplified tasks enhanced perceived relevance by the respondent and allowed them to focus and give more in-depth responses related to a specific task. By simplifying the exercise, the respondents could search in a more relaxed atmosphere concentrating on only a few key decisions rather than a large and potentially overbearing planning process. This simplification also allowed students to focus on a specific task and created an atmosphere where they could gain confidence in their trip plans by focusing on a few decisions.

**FINDINGS**

Upon the completion of the study, the researchers examined whether these areas of concern were addressed. In the case of the pre-test, themes related to background knowledge as part of the process were evident. In several cases, students searched for things they heard about China previously. Many of these searches are related to stereotypes such as searching for Kung Fu shows and for Chinese food. As respondents often began with a search for the familiar, as more learning occurred searching outside of
previous knowledge was expanded. By having students remind themselves of their
preconceived image of China, a base upon which learning could take place was
developed.

The think aloud component of describing thoughts and feelings while searching
was difficult and challenging for many of the respondents. Also, the use of the computer
technology and speaking aloud was counter-intuitive for some subjects. The preparatory
exercise of having the students talk about finding the weather was helpful to many as it
allowed them to develop the skill in a non-threatening and non-judgmental environment.
For many respondents though, consistent discussion while conducting web searches was
too difficult. In many cases the recording of the screen and the researchers’ field notes
gave better insights into the mental process than the words which were expressed by the
respondents.

Finally, the task-specific component was suitable for this study. Eliminating the
tasks of finding airline tickets and hotel rooms dramatically reduced the cognitive load of
the planning. As the majority of respondents had little geographic and spatial knowledge
related to the destination, to have them plan a larger trip in the available time frame
would have created a frustrating experience. Even as such, because the majority of
respondents did not have a lot of previous knowledge related to the destination, anxiety
and stress levels were higher than expected. Using a destination which respondents had
at least a working knowledge of would have lowered stress level and probably allowed
for deeper insights into the planning process.

**CONCLUSIONS**

Internet users’ online travel planning process is still largely unknown. Given the
infancy of the topic, the qualitative-based and mixed-method approach used in this study
is deemed appropriate and has generated many interesting insights. For the present
authors, conducting this study has become an exciting yet challenging learning
experience. Methodological issues pertaining to creating a simulation that mirrors a
realistic decision-making situation is challenging. The expected results of this study will
shed new lights on key determinants of satisfaction and efficiency of trip planning to
China and the main usability problems of the travel information space as the bridge
between China’s tourism industry and American travelers. Operational significance aside,
the quasi-experimental design also contributes to the tourism marketing literature from a
methodological perspective.

**REFERENCES**

decision processes in a drug-prescription task: The validity of rating scales and
think-aloud reports. Organization Behavior and Human Decision Processes, 91:
108-117.

infrastructure. In M. E. Williams (Eds.) Annual review of information science and


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