On How Social Networking Sites Affect Online Consumer Purchase Intention

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Abstract. In view of the prevalence of social networking sites (SNSs) among Internet users and such sites’ use in commercial marketing and sales, there has been growing interest in both academia and industry in the study on the effects of SNSs and its various aspects on consumer behavior, inclusive of online consumer purchase intention. In this paper, the effects of the Technology Acceptance Model’s constructs, peer influence, and electronic Word-of-Mouth in the context of SNS on online consumer purchase intention are proposed and subsequently tested statistically.

Introduction

People heavily rely on social networking sites (SNS) when making purchasing decisions nowadays [1]. Previous researches establish that in the context of SNSs, constructs of the Technology Acceptance Model (TAM) [2], which predicts users’ attitude towards a new technology and delineates the way its acceptance leads to intention of use and effective use [3] [4], are correlated with consumers’ purchasing decision on SNSs [5]. Likewise, the literature reveals that peer influence [6] affects purchasing decision [7] as does Electronic Word of Mouth (eWOM) [8] [9].

In this paper, the effects of the TAM constructs, peer influence, and eWOM in the context of SNSs on online consumer purchase intention are proposed and subsequently tested statistically.

The Theoretical Framework and Hypotheses

Figure 1 shows our theoretical framework whilst the null hypotheses H₁ to H₆ are enumerated below it. Constructs like “perceived ease of use,” “perceived usefulness,” etc. in Figure 1 are also made self-explanatory by the hypotheses.

Fig.1. The theoretical framework

H₁: A person’s “perceived ease of use” of SNSs is not correlated with his/her “attitude” towards SNSs.
H₂: A person’s “perceived usefulness” of SNSs is not correlated with his/her “attitude” towards SNSs.
H₃: A person’s “perceived enjoyment” of SNSs is not correlated with his/her “attitude” towards SNSs.
H₄: A person’s “attitude” towards SNSs is not correlated with his/her “purchase intention” on SNSs.
H₅: A person’s “peer influence” is not correlated with his/her “attitude” towards SNSs.
H₆: A person’s “eWOM” is not correlated with his/her “attitude” towards SNSs.
H5: “Peer influence” on a person is not correlated with his/her “purchase intention” on SNSs.
H6: “eWOM” on SNSs experienced by a person is not correlated with his/her “purchase intention” on SNSs.

Methodology

A quantitative methodology was adopted with 300 questionnaires having been distributed to undergraduate students at Macao Polytechnic Institute, ending up with 264 valid questionnaires having been collected or a response rate of 88%. Each questionnaire comprised five sets of items for the student respondent to rate on a 7-point Likert scale, each set respectively being
• adapted from TAM [2] to gauge the respondent’s “perceived ease of use,” “perceived usefulness,” and “perceived enjoyment” of SNSs,
• based on [10] to evaluate the respondent’s “attitude” towards SNSs,
• adapted from [11] to assess the “peer influence” on the respondent, and
• adapted from [12] to appraise the respondent’s “purchase intention” on SNSs.

In other words, each of the constructs “perceived ease of use,” “perceived usefulness,” etc. in Figure 1 was operationalized through each respondent’s ratings of a few items in each questionnaire. The Cronbach’s α of each of these constructs is 0.770 minimum, indicating the acceptable internal consistency of all of them given such operationalization.

Subsequently, principal component analysis was applied to attempt to extract a small number of, preferably one, component(s) out of the respondents’ ratings of the relatively large number of items for each construct such that a small number of respondent-specific component score(s) corresponding to the extracted component(s) could be derived to represent each respondent’s rating of the construct. It turned out that one single component was extracted from and thus one single component score was derived to represent each of the constructs in Figure 1 except that two components were extracted from and thus two component scores were derived to represent the construct “peer influence.” Therefore, all component scores so derived were named the same as their corresponding constructs except that the two components scores derived for the construct “peer influence” were dubbed “informational influence” and “normative Influence” based on the ensuing component loadings and the corresponding items’ nature. Consequently, the theoretical framework was remodeled as in Figure 2, and null hypothesis H5 was transformed into two hypotheses H5A and H5B as stipulated underneath Figure 2 whereas other hypotheses remained the same. It is noteworthy that “perceived ease of use,” “perceived usefulness,” etc. in Figure 2 and all associated hypotheses H1, ..., H4, H5A, H5B and H6 are component scores as opposed to the constructs in Figure 1.

Fig.2. The remodeled theoretical framework

H5A: “Informational Influence” on a person is correlated with his/her “purchase intention” on SNSs.
H5B: “Normative Influence” on a person is correlated with his/her “purchase intention” on SNSs.

Then, regression analysis was applied to test null hypotheses H1, ..., H4, H5A, H5B and H6 and determine whether the correlation, if any, underlying each such hypothesis was positive or negative.
Findings

Table 1 depicts the findings from the regression analysis where the hypothesis tests were performed at the 5% significance level.

<table>
<thead>
<tr>
<th>Null Hypothesis</th>
<th>Reject/ Accept</th>
<th>Positive (+)/ Negative (-)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>Accept</td>
<td>Not applicable</td>
</tr>
<tr>
<td>H2</td>
<td>Reject</td>
<td>+</td>
</tr>
<tr>
<td>H3</td>
<td>Reject</td>
<td>+</td>
</tr>
<tr>
<td>H4</td>
<td>Reject</td>
<td>+</td>
</tr>
<tr>
<td>H5A</td>
<td>Reject</td>
<td>+</td>
</tr>
<tr>
<td>H5B</td>
<td>Accept</td>
<td>Not applicable</td>
</tr>
<tr>
<td>H6</td>
<td>Reject</td>
<td>+</td>
</tr>
</tbody>
</table>

The regression analysis also revealed that “perceived ease of use” was positively and directly correlated with “purchase intention” but not through “attitude” as a mediator.

Conclusion

A person’s “perceived ease of use” of SNSs, peers’ “informational influence on the person, and eWOM on SNS experienced by the person are positively and directly correlated with his/her “purchase intention” on SNSs whilst a person’s “perceived usefulness” and “perceived enjoyment” of SNSs are positively correlated with his/her “purchase intention” on SNSs via his/her “attitude” towards SNSs as a mediator.

The implications to electronic businesses are that their website designs must take into account ease of use, usefulness, and enjoyment in order to stand a better chance of success in online sales of products and services. Also, electronic businesses are supposed to take seriously the spread of opinions about their products and services among peer consumers in the form of eWOM or otherwise whereas norm formation among peer consumers does not seem to matter to online sales of products and services.

References


