CREDIBILITY OF WEBSITES THROUGH FACETS AND DIMENSIONS

Oana ȚUGULEA
University Alexandru-loan Cuza of Iași, Romania
Email: ciobanu.oana@uaic.ro

Claudia STOIAN (BOBÂLCĂ)
University Alexandru-loan Cuza of Iași, Romania
Email: iuliana.bobalca@uaic.ro

Abstract:
This study aims to investigate important aspects to concern on when building a commercial presentation website, in order to increase the credibility of the certain categories of a presentation website. Factor analysis was used in order to identify the dimensions of each category. The categories and resulted dimensions discussed were: “image” – with the following dimensions: Projected image, Specialist, Advert and Coherence, “relationship” – with the following dimensions: Bi-directional communication and Contact information, “product presentation” – with the following dimensions: In-depth description and Variety and “site functionality” – with the following dimensions: Usefulness, Official relationship, Complete communication, Exterior communication, Information format and References.

Keywords: Internet, credibility, website, factor analysis

1. Introduction
The credibility concept appeared long time ago in the humanity history of communication. Nowadays, the concept is integrated in various.

Credible information, as a concept, was first defined by Fogg and Tseng (1999) as information that can be trusted. As derived, source credibility is the ability of a message from a certain source to provide accurate information.

Websites are sources of information widely used nowadays. It becomes important to study manners to create websites that drag clients into the content and convince them to make a purchase. From this point of view, quality credible websites generate successful online presence.

San José-Cabezudo et al. (2008) findings suggest that organisations should pay attention to both emotional arousing reactions and informative value especially in order to generate favourable feedback from online users. A successful e-commerce website “provides clear, timely and accurate information in all its contents and an appearance that calls for the users’ attention” (Flavian et al., 2009, p. 168). Accessibility and content are important aspects to consider when creating a website (Fry et al., 2004).

In a previous qualitative and instrumental research (Ciobanu, 2011), the data collection instrument was configured with the purpose to identify the dimensions of credibility of commercial websites, split into two categories: presentation websites
and online sales websites (Ciobanu, 2011). This research investigated only presentation websites category.

There were 57 items selected in the final questionnaire. The instrument was tested on 50 subjects (two groups of students randomly selected) before being used to collect data.

The items of the questionnaire were selected and grouped in four categories, based on the logical sense of each item. 44 items from the initial questionnaire were selected. 13 items were removed from the research, as they could not be integrated in any category. The selected categories are: (1) the first category of items: site image; (2) the second category of items: relationship; (3) the third category of items: product presentation; (4) the fourth category of items: site functionality.

2. Literature Review

The levels of Web credibility assessment are: (1) website as a type of media, (2) website as a source of information and (3) information from a certain website (Rieh et al., 2007).

Fogg et. al (2001), very cited authors for website credibility in the literature, delivered in their paper the websites credibility’s dimension: (1) Expertise, (2) Ease of Use, (3) Amateurism, (4) Tailoring, (5) Real-World Feel, (7) Commercial Implications and (8) Trustworthiness.

Other authors identified different, identical or similar dimensions of the construct of website credibility (Manolică et al., 2011), such as: goodwill, depth, sufficiency, expertise, trustworthiness, fairness, privacy, identity, advertising and sponsorship, confidence, accuracy, etc. (Hong, 2006; Morrison, 2005; Fogg et al., 2001).

Websites are connection gates between companies and clients; it is important for websites to communicate on the efforts on quality of the company (Rocha, 2012).

Recent research investigates on successful web presence aspects and website quality factors/dimensions.

According to Fry et al. (2004), a successful web presence is correlated to: (1) provision – whether a URL exists or not; (2) accessibility – whether the website can be found by a user; (3) facilities – aspects on content and features of the website.

In their paper, Kriechbaumer and Christodoulidou (2014) presented an overview of the literature about the impact of quality factors on website implementation of small and medium-sized hospitality enterprises (SMEs) only. According to their findings, there are four quality implementation factors: (1) access – manner to find and access the site (links, search, direct); (2) content – the communication material itself and also the main reason for a visitor to actually visit a website (value, quality, legacy, product, company, supplements); (3) function – or “usability” (security, privacy, relationship, interaction, ordering, after-sale); (4) design – important for brand building and awareness (target user, brand image, user input, aesthetics, navigation, organisation).

In his research, Rocha (2012) proposes the three dimensions structure to assess the quality of a website: (1) technical quality, (2) service quality, (3) content quality.

In their paper, Flavian et al. (2009) propose a Decalogue for improving the website design. The Decalogue is composed of four dimensions (Flavian et al., 2009): (1) appearance – using visualisation tools; (2) navigation – using map of site; (3) content – using information and visualisation tools; (4) shopping process – using information and visualisation tools.
3. Research objectives

The purpose of the research was to investigate important aspects to concern on building a commercial presentation website, in order to increase the credibility of the certain categories of a presentation website.

The objectives of this research are:

1. Identify the dimensions of credibility of the “site image” category of items of presentation commercial websites;
2. Identify the dimensions of credibility of the “relationship” category of items of presentation commercial websites;
3. Identify the dimensions of credibility of the “product presentation” category of items of presentation commercial websites;
4. Identify the dimensions of credibility of the “site information” category of items of presentation commercial websites.

3.1. Methodology of research

Each item included in the measurement scale was anchored from 1 (criterion is not accomplished) to 7 (criterion is very accomplished).

This is an exploratory research. Exploratory factor analysis in SPSS was conducted on the items composing each category. The dimensions resulted on each category communicate on the important aspects to focus on when building a credible presentation commercial website.

The investigated population is represented by young Internet users that are very familiar with using the Internet.

The sample is represented by students that study in Iasi, Romania. Students were randomly selected. There were men and women, bachelor and master educational levels. Students are heavy Internet users. This aspect makes them a very good sample (Kwak et al., 2002; James and Sonner, 2001; Miyazaki and Fernandez, 2001; Oakes, 1972; Sexton et al., 2002).

298 valid questionnaires were inserted into the analyses.

Out of the 298 students, approximate 80% were women. 25% were from Iasi. Students were included in the study based on a random selection.

4. Results and discussion

Objective 1. Identify the dimensions of credibility of the “site image” category of items of presentation commercial websites

Factor analysis was conducted for each objective, Principle Components Method in SPSS, in order to identify the dimensions of the “site image” category.

The value of the KMO and Bartlett's Test was 0.791 (>0.6), sig. < 0.05.

Table 1 lists the items grouped into dimensions as they resulted from the factor analysis procedure. The labels of the dimensions were attributed by researchers derived from the logical sense of the composing items.

Four dimensions resulted from this analysis, explaining 55% of the total variance.
Table 1

<table>
<thead>
<tr>
<th>Dimensions of “site image” category</th>
<th>Projected image</th>
<th>Specialist</th>
<th>Adverts</th>
<th>Coherence</th>
</tr>
</thead>
<tbody>
<tr>
<td>The site makes aggressive advertising</td>
<td>The site presents a won prize</td>
<td>The company promotes products according to its main activity domain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I find contradictory discussions, complaints, scandals on online discussion groups about the company and promoted products</td>
<td>Information on the site belongs to specialists</td>
<td>The company is the producer of the products promoted by the site</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The company is a prestigious/respected/serious one</td>
<td>The company is the producer of the products promoted by the site</td>
<td>The site contains adverts that fit the presented information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The site specifies the fact that it represents the official presentation site for a certain type of products or a certain domain</td>
<td>The site structure clearly distinguishes the presented information by the adverts</td>
<td>The site has one or more adverts on each page</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The site clearly distinguishes the presented information by the adverts</td>
<td>The site contains adverts that fit the presented information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The site has one or more adverts on each page</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The item “The company makes available as many information about the company and its members as possible” was removed from the analysis, as it loaded very similar on the four factors and it could not be identified the dimension to be included into.

All dimensions were grouped in a logical manner as well. Out of the total variance, 25.5 % was explained by Projected image, 14.5 % was explained by Specialist, 8 % was explained by Advert, 7.5 % was explained by Coherence.

Reliability of the dimensions presented in this paper was not computed because this research does not propose an assessment of the credibility of the Websites. The aim of this study is to find the important aspects associated with presentation website credibility increase.

**Objective 2. Identify the dimensions of credibility of the “relationship” category of items of presentation commercial websites**

The value of the KMO and Bartlett's Test was 0.634 (>0.6), sig < 0.05. As in the previous objective, table 2 lists the items grouped into dimensions as they resulted from the factor analysis procedure, with labels attributed as derived from the logical sense of the composing items.

Two dimensions resulted from this analysis, explaining 67.6% of the total variance.
Table 2

Dimensions of “relationship” category

<table>
<thead>
<tr>
<th>Bi-directional communication</th>
<th>Contact information</th>
</tr>
</thead>
<tbody>
<tr>
<td>The site offers more contact information than a phone number or an e-mail</td>
<td>The site offers a phone number for contact</td>
</tr>
<tr>
<td>I receive e-mails from the customer support department</td>
<td>The site offers an e-mail address for contact</td>
</tr>
<tr>
<td>The company answers fast to my customer support questions</td>
<td>The site offers the names and e-mails of the authors of the articles included in the page</td>
</tr>
</tbody>
</table>

All dimensions were grouped in a logical manner as well. Out of the total variance, 38.7% was explained by Bi-directional communication and 28.8% was explained by Contact information.

Objective 3. Identify the dimensions of credibility of the “product presentation” category of items of presentation commercial websites

The value of the KMO and Bartlett's Test was 0.657 (>0.6), sig < 0.05. Table 3 lists the items grouped into dimensions with logical labels.

Two dimensions resulted from this analysis, explaining 56.6% of the total variance.

Table 3

Dimensions of “product presentation” category

<table>
<thead>
<tr>
<th>In-depth description</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>The site offers details about the manufacturing process and about the products</td>
<td>The site promotes very well known brands</td>
</tr>
<tr>
<td>The presentation of the products also underlines weaknesses/secondary effects of their use</td>
<td>The site promotes various product lines</td>
</tr>
<tr>
<td>The products are presented in a clear, detailed, precise manner</td>
<td></td>
</tr>
<tr>
<td>The site promotes confirmed/recommended products by specialised institutions</td>
<td></td>
</tr>
</tbody>
</table>

All dimensions were grouped in a logical manner by the factor analysis. Out of the total variance, 33.7% was explained by In-depth description and 22.8% was explained by Variety.

Objective 4. Identify the dimensions of credibility of the “site functionality” category of items of presentation commercial websites

The value of the KMO and Bartlett's Test was 0.793 (>0.6), sig < 0.05. Table 4 lists the items grouped into dimensions with logical labels.

Six dimensions resulted from this analysis, explaining 62.5% of the total variance.
Four of the six dimensions were grouped in a logical manner by the factor analysis. The other two dimensions grouped items that are not referring to the exact same topic (exterior communication and references).

Out of the total variance, 23.8% was explained by Usefulness, 11.2% was explained by Official relationship, 9.3% was explained by Complete communication, 6.3% was explained by Exterior communication, 6% was explained by Information format and 5.6% was explained by References.

5. Conclusions
This research has the purpose to investigate important aspects to concern on when building a commercial presentation website, in order to increase the credibility of the certain categories of a commercial presentation website.

Results suggest that, in order to have a credible commercial presentation website, the “image” aspect should be addresses from the following perspectives: projected image – what consumers find and know about the company, specialist – aspects that shape the image of a specialist company for the promoted category of products (prizes, producer, official site, etc.), advert – the proper combination of advertising and information on company and products and
Coherence – the logical combination of the activities that the company realises and the type of promotes product(s).

From the perspective of the “relationship” category, it seems like it is not enough to deliver contact information (such as phone, e-mail, address, etc.). It is also necessary to offer contact information of people involved in the website (such as authors of the articles included in the page) and also, it is extremely important to have a bi-directional communication with the target, to reply to customers messages by all means, in a short time.

In order to create a credible commercial presentation website, from the “Product presentation” category, the products should be presented very clearly, from all aspects point of view (manufacturing, strengths and weaknesses/secondary effects). Aspects of security (confirmed products and very well known brands) may also be important. A credible website is the one that presents a variety of product lines.

From the perspective of the “site functionality”, a credible site is useful (it has no access errors, all the links are functional, it is easy to be navigated, etc.), it officialises the relationship with the clients by using personal accounts, it offers complete information on aspects such as the confidentiality policy, frequent updates and information in more than one language, it offers information from competitors, it pays attention to the format of the information using sounds and intro pages and it offers references for the information posted on the site.

Research implications

The originality of this research is that it combines the selection of items into groups, by researchers, based on the logical sense of items, with the statistical grouping of items by the factor analysis procedure, the Principal Component Method. Research on credibility of websites (Fogg et al, 2001) commercial websites in particular (Ciobanu, 2011) was conducted before, but the important difference in this study is that the researchers categorize the items before running the factor analysis. This leads to creation of dimensions of credibility on certain topics to be approached when creating a commercial presentation website. No similar research was found in the documentation process for this article.

Managerial implications

The results of this research are very useful to Website designers and managers that operate in the online as well.

The “results” section presents the dimension resulted from the factor analysis on four categories of items: site image, relationship, product information and site functionality. Each of the dimensions previously presented extensively needs to be very well considered before configuring a credible commercial presentation website for the company and the promoted products. Also, depending on the target, various dimensions may be considered more than others.

Limitations of the research

Only students were participants in this research. This leads to a limitation, as not all young Internet users were investigates (those that do not apply for a bachelor or master degree and those that already finished university studies). Young Internet users that are not in the students’ category may have different perspectives on the studied topic.
Future research
A future research direction is to analyse the resulted dimensions into qualitative researches. More complete scale may result that should be tested and analysed from the reliability and validity points of view.
Also, this research should also investigate Internet users on online purchasing websites.

REFERENCES


