

Weight Analysis of the Factors Affecting eWOM Providing Behavior

Elvira Ismagilova, Yogesh K. Dwivedi, Nripendra P. Rana, Uthayasankar Sivarajah, Vishanth Weerakkody

▶ To cite this version:

Elvira Ismagilova, Yogesh K. Dwivedi, Nripendra P. Rana, Uthayasankar Sivarajah, Vishanth Weerakkody. Weight Analysis of the Factors Affecting eWOM Providing Behavior. 19th Conference on e-Business, e-Services and e-Society (I3E), Apr 2020, Skukuza, South Africa. pp.266-275, 10.1007/978-3-030-44999-5 22. hal-03222818

HAL Id: hal-03222818 https://inria.hal.science/hal-03222818v1

Submitted on 10 May 2021

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Weight analysis of the factors affecting eWOM providing behavior

Elvira Ismagiloiva¹, Yogesh Dwivedi², Nripendra Rana¹, Uthayasankar Sivarajah¹, Vishanth Weerakkody¹

¹ Faculty of Management, Law and Social Sciences, University of Bradford, Bradford, UK² Emerging Markets Research Centre, School of Management, Swansea University, UK

{e.ismagilova, n.p.rana, u.sivarajah, v.weerakkody}@bradford.ac.uk y.k.dwivedi@swansea.ac.uk

Abstract. Electronic word of mouth (eWOM) significantly affects the consumer decision-making process. A number of studies investigated why consumers provide eWOM communications. Existing literature has contradicting factors regarding factors affect eWOM providing behaviour. This study aims to evaluate factors affecting eWOM providing behaviour by performing a systematic review and weight analysis of existing research outputs. Based on the result of weight analysis it was found that the best predictors of eWOM providing behaviour are involvement, self-enhancement, and trust in web eWOM services. Scholars can use the results of this study when making decisions regarding the inclusion of factors in their research. Practitioners can pay more attention to the best predictors.

Keywords: eWOM, weight analysis; literature review; eWOM providing behaviour.

Introduction

Electronic word of mouth (eWOM) significantly affects the consumer decision-making process [1, 2]. eWOM is defined as "the dynamic and on-going information exchange process between potential, actual, or former consumers regarding a product, service, brand, or company, which is available to a multitude of people and institutions via the Internet" [3].

An increasing number of researchers and practitioners have started paying attention to eWOM communications [4-6]. A number of studies investigated factors affecting eWOM providing behaviour [7-10]. Existing studies in this area have reported conflicting results on the effect of factors affecting eWOM providing behaviour. For instance, Luarn et al. [11] found that altruism does not affect eWOM providing behaviour, while Cui et al. [12] found that altruism has a significant positive effect on eWOM providing behaviour. Another study by Shen et al. [13] by using surveys found that economic incentives do not have any significant impact on eWOM providing behaviour, while Son et al. [14] found the opposite results-economic incentives

positively affect individual's behaviour to provide eWOM. The mixed findings on the factors affecting eWOM providing behaviour can lead to confusion for scholars and practitioners.

Thus, it is crucial to conduct a review of existing studies on eWOM providing behaviour and perform weight analysis. Thus, the aim of this research is to examine factors affecting eWOM providing behaviour by performing a systematic review and weight analysis of existing research findings. Conducting weight analysis will help to investigate the predictive power of the independent variables, by taking into account the number of times a relationship has been previously studied. The model developed through the weight analysis will help eWOM practitioners and scholars to focus on more influential factors of eWOM providing behaviour.

The remaining part of the paper is organised in the following way. Section 2 focuses on the method which was used for this study. Section 3 will present the literature review. After, the findings from weight analysis are presented and discussed in Section 4. Section 5 presents a conclusion followed by the limitations of this study and directions for future research.

Literature search method

To perform weight analysis peer-reviewed journal articles on eWOM communications were collected from bibliographic database Scopus, which is one of the world's largest abstract and citation databases of peer-reviewed literature. The searched keywords were selected after consulting the experts and included "Online review", "Online reviews", "Electronic word-of-mouth", "Electronic word of mouth", "eWOM", "Internet word-of-mouth", "Internet word-of-mouth", "Online word-of-mouth", "Online word-of-mouth", "Virtual word-of-mouth". As a result, more than 500 articles were identified published from 2000 untill 2018. Articles that did not focus on eWOM providing behaviour and did not have empirical findings were excluded, leaving 54 research papers relevant for this research.

Literature synthesis

An extensive number of studies investigated factors affecting eWOM providing behaviour. The studies were conducted in different contexts (e.g. SNS, opinion platforms, online review websites), countries (e.g. USA, China, Spain), using different products and services as examples (e.g. laptop, restaurants, hotels) [9, 15-18]. Additionally, studies used various methods for data collection such as surveys or data mining [19, 20]. Studies applied a number of theories to study factors affecting eWOM providing behaviour such as social exchange theory, motivational theory and Uses

and Gratification theory to name a few [17]. Based on the literature review 21 factors which affect eWOM providing behaviour were identified (see Table 1).

Table 1. Factors affecting eWOM providing behaviour

Construct	Definition	Num-	Representative	
		ber of	studies	
		studies		
Influence of	Influence by the behav-	6	[7, 8]	
others	iours and practices of other			
	users.			
Information	Capacity to accept infor-	4	[9, 10]	
influence	mation from another knowl-			
	edgeable person to select a			
	product or brand.			
Tie strength	The depth of a relation-	7	[21, 22]	
	ship between source and			
	information seeker. Varia-			
	bles included: tie strength,			
	social interaction tie, per-			
	ceived social relationships.			
Homophily	The degree to which two	3	[9, 15]	
	or more individuals who			
	interact are similar in certain			
	attributes (e.g. beliefs, educa-			
	tion, social status).			
Economic incen-	Getting economic benefits	12	[13, 14]	
tive	(e.g. money, web coupons,			
	free delivery). Variables			
	included: economic incen-			
	tive, remuneration, extrinsic			
	reward, open market reward.			
Altruism	The aim of increasing	8	[11, 12]	
	welfare of one or more per-			
	son(s) other than oneself.			
Self-	Presenting themselves	12	[12, 23]	
enhancement	positively, sharing infor-			
	mation to look good.			
Satisfaction in	Pleasant consumption ful-	4	[17, 18]	
helping other	filment which happens as a			
customers	result of helping other cus-			

	tomers.		
Opinion seeking	Behaviour focused on	3	[24, 25]
Opinion seeking	looking for eWOM commu-	3	[21, 23]
	nications.		
Opinion leader-	A domain-independent,	3	[25, 26]
ship	trait-like set of personality	3	[23, 20]
Silip	characteristics that are stable		
	over time and across re-		
	spondent groups. Opinion		
	leaders shape public opinion		
	by selectively conveying		
	mass media messages to		
g .	their social networks.		F20, 257
Community	Sense of belonging to the	3	[20, 27]
identity	virtual (online) community.		
	Variables included: commu-		
	nity identification, social		
	identification.		
Reciprocity	Benefit for individuals to	2	[19, 20]
	engage in social exchange; a		
	person who offers help to		
	others is expecting returns in		
	the future.		
Information	The degree to which the	3	[28, 29]
usefulness	information assists consum-		
	ers in making their purchase		
	decisions.		
Affective com-	Affective (emotional)	2	[30, 31]
mitment	commitment derived from		
	emotional attachment to,		
	identification with, and in-		
	volvement in an entity.		
Normative	Motivated by the actor's	2	[30, 31]
commitment	moral obligation that s/he		
	must fulfil.		
Involvement	The degree of psychologi-	8	[12, 32]
	cal identification and emo-		
	tional ties the receiver has		
	with the product/service.		
Customer satis-	A condition that happens	8	[16, 33]
faction	as a result of a pleasant con-		
	sumption fulfilment.		
Loyalty	Overall attachment with a	3	[14, 16]
	favourable attitude manifest-		
	ed by repeated purchasing.		
1	<u>, , , , , , , , , , , , , , , , , , , </u>	t	

Perceived risk	The uncertainty a con-	3	[18, 34]
	sumer has in making a pur-		
	chase decision.		
Brand loyalty	Favourable attitude to-	2	[35, 36]
	ward the brand.		
Trust in web	The subjective belief that	4	[20, 37]
eWOM services	a party will fulfil their obli-		
	gations.		

To determine the strength of the relationships between constructs, weight analysis was conducted by dividing the number of significant relationships by the total number of analysed relationships between studied independent and dependent variables. For example, the relationship between economic incentive and engaging in eWOM communications was examined 13 times and was significant eight times. As a result, the weight significance of a relationship between these two constructs is calculated by dividing 8 by 13, which gives 0.615. If weight is equal to 1 it indicates that the relationship between two constructs is significant across all studies, while a weight equal to 0 shows this relationship is non-significant throughout all examined studies (Jeyaraj et al., 2006; Rana et al., 2015). Table 2 presents the weight analysis of all 21 relationships included in this study.

Table 2. Results of weight analysis

Independent variable	Number of signifi- cant rela- tionships	Number of non- significant relation- ships	Total number of relation- ships	Weight
Satisfaction in helping other customers	4	0	4	1.000
Opinion seeking	3	0	3	1.000
Opinion leader- ship	4	0	4	1.000
Information use- fulness	4	0	4	1.000
Affective com- mitment	3	0	3	1.000
Normative com- mitment	3	0	3	1.000

Loyalty	3	0	3	1.000
Perceived risk	3	0	3	1.000
Trust in web	5	0	5	1.000
eWOM services				
Self-enhancement	12	1	13	0.923
Involvement	7	1	8	0.875
Brand loyalty	2	1	3	0.667
Economic incen-	8	5	13	0.615
tive				
Altruism	5	4	9	0.556
Customer satis-	5	4	9	0.556
faction				
Influence of oth-	3	3	6	0.500
ers				
Tie strength	4	4	8	0.500
Community iden-	2	2	4	0.500
tity				
Homophily	1	2	3	0.333
Reciprocity	1	2	3	0.333
Information influ-	1	4	5	0.200
ence				

Note: Dependent variable is eWOM providing behavior

Researchers [38-40] classify predictors as follows: a predictor is 'well-utilised' if examined five or more times, otherwise it is considered as 'experimental'; a predictor is a 'best predictor' if its weight is greater or equal to 0.8 and it has been examined more than five times but is a 'promising predictor' if it has been examined less than 5 times and has a weight of 1.

The following predictors of intention to provide eWOM communications fall within the category of best predictor: involvement (examined 8 times, significant 7 times), self-enhancement (examined 13 times, significant 12 times), and trust in web eWOM services (examined 5 times, significant 5 times). All of these predictors were explored five or more times and have a weight equal to or greater than 0.80.

Predictors such as information usefulness (examined 4 times, significant 4 times), affective commitment (examined 3 times, significant 3 times), normative commitment (examined 3 times, significant 3 times), loyalty (examined 3 times, significant 3 times), perceived risk (examined 3 times, significant 3 times), opinion seeking (examined 3 times, significant 3 times), and opinion leadership (examined 4 times, significant 4 times) are considered as promising predictors of intention to engage in eWOM communications. Although these relationships were found to be significant across all examined studies, Jeyaraj et al. [39] suggest that these types of experimental variables need more testing to be categorised as best predictors.

Even though none of the studied relationships between predictors and intention to engage in eWOM was found to have a weight of '0', some of the well-utilised inde-

pendent constructs are considered to be least effective predictors, such as influence of others (examined 6 times, significant 3 times), tie strength (examined 8 times, significant 4 times), information influence (examined 5 times, significant once), economic incentive (examined 13 times, significant 8 times), altruism (examined 9 times, significant 5 times), and customer satisfaction (examined 9 times, significant 5 times). It is proposed by Jeyaraj et al. [39] that justification for continuing to examine such predictors should be convincing. Nevertheless, it may be premature to exclude such predictors given that eWOM providing behaviour research is still emerging as far as the empirical aspects and solid theoretical foundations of this research are concerned. Out of the total 21 examined relationships only nine were found to be studied five or more times (influence of others, tie strength, information influence, economic incentive, altruism, involvement, self-enhancement, customer satisfaction, and trust in web eWOM services), which proposes that eWOM research is still not that well developed. Moreover, some researchers propose that weight analysis may not be a sufficient reason to exclude any variables from further analysis (Rana et al., 2015). None of the predictors was found to be the worst predictors of intention to engage in eWOM communications.

Discussion

Taking into account the increasing number of studies on eWOM providing behaviour, it is important to discuss and analyse their collective findings. Figure 1 presents the diagrammatic representation of the factors affecting eWOM providing behaviour with their corresponding weight based on the results of weight analysis. The findings suggest the best predictors such as involvement, self-enhancement, and trust in web eWOM services should be included in eWOM research. Promising predictors such as should be included in future empirical research to evaluate their overall performance.

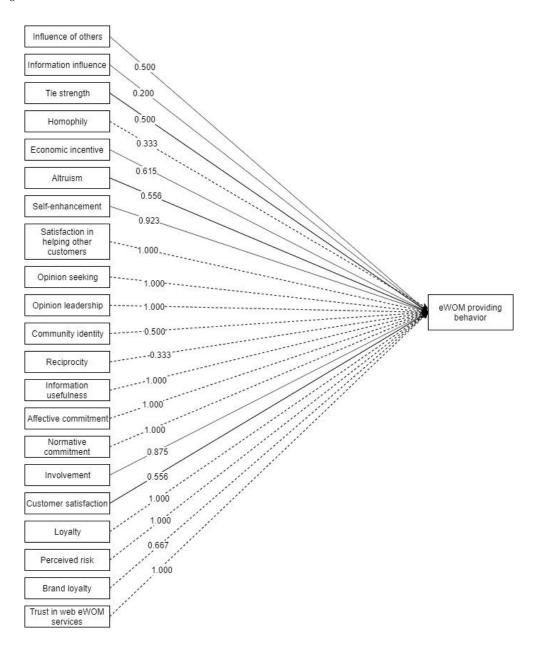


Fig. 1. Factors affective eWOM providing behaviour Note: ---> experimental predictors; → well-utilised predictors.

Conclusion and limitations

The aim of this research was to examine factors affecting eWOM providing behaviour by conducting weight analysis of existing research findings. The weight analysis was performed by identifying a number of significant and non-significant relationships between studied variables.

The current study provides some implications for researchers and practitioners. This research provided a framework for future research identifying factors affecting eWOM providing behaviour. Scholars can use the results of this study when making decisions regarding the inclusion of factors in their research. Practitioners can pay more attention to the best predictors- involvement, self-enhancement, and trust in web eWOM services

The current research has a number of limitations. First, this study only conducted weight analysis without performing meta-analysis which could strengthen those findings of weight analysis and evaluate the significance of the studies relationships [41]. It is advised that future research performs meta-analysis on factors affecting eWOM providing behaviour. Second, this study only used the Scopus database for the collection of study. This can affect the number of research outputs available for weight analysis, the coverage and representativity of the sample considered in the analysis. Thus, future research should employ other available datasets (e.g. web of science, Google Scholar, EBSCO).

References

- 1. Dwivedi, Y.K., Kapoor, K.K., Chen, H.: Social media marketing and advertising. The Marketing Review 15, 289-309 (2015)
- 2. Alalwan, A.A., Rana, N.P., Dwivedi, Y.K., Algharabat, R.: Social media in marketing: A review and analysis of the existing literature. Telematics and Informatics 34, 1177-1190 (2017)
- 3. Ismagilova, E., Dwivedi, Y.K., Slade, E., Williams, M.D.: Electronic word of mouth (eWOM) in the marketing context: A state of the art analysis and future directions. Springer (2017)
- 4. Rathore, A.K., Ilavarasan, P.V., Dwivedi, Y.K.: Social media content and product cocreation: an emerging paradigm. Journal of Enterprise Information Management 29, 7-18 (2016)
- 5. Shareef, M.A., Mukerji, B., Dwivedi, Y.K., Rana, N.P., Islam, R.: Social media marketing: Comparative effect of advertisement sources. Journal of Retailing and Consumer Services 46, 58-69 (2019)
- 6. Shiau, W.-L., Dwivedi, Y.K., Yang, H.S.: Co-citation and cluster analyses of extant literature on social networks. International Journal of Information Management 37, 390-399 (2017)
- 7. Choi, J.H., Scott, J.E.: Electronic word of mouth and knowledge sharing on social network sites: a social capital perspective. Journal of Theoretical and Applied Electronic Commerce Research 8, 69-82 (2013)

- 8. Christodoulides, G., Michaelidou, N., Argyriou, E.: Cross-national differences in e-WOM influence. European Journal of Marketing 46, 1689-1707 (2012)
- 9. Saleem, A., Ellahi, A.: Influence of electronic word of mouth on purchase intention of fashion products in social networking websites. Pakistan Journal of Commerce and Social Sciences (PJCSS) 11, 597-622 (2017)
- 10.Wu, L., Mattila, A.S., Wang, C.-Y., Hanks, L.: The impact of power on service customers' willingness to post online reviews. Journal of Service Research 19, 224-238 (2016)
- 11.Luarn, P., Chiu, Y.-P., Yang, J.-C.: An exploratory study of the motives engaged in the dissemination of social word-of-mouth via mobile device. In: 2014 47th Hawaii international conference on system sciences, pp. 1033-1042. IEEE, (2014)
- 12.Cui, J., Wang, L., Feng, H., Teng, Y.: Empirical Study of the Motivations of E-WOM Spreading on Online feedback System in China. In: PACIS, pp. 251. (2014)
- 13. Shen, W., Cai, J., Li, L.: Electronic word-of-mouth in China: a motivational analysis. In: 2011 International Conference on E-Business and E-Government (ICEE), pp. 1-6. IEEE, (2011)
- 14.Son, J.-E., Kim, H.-W., Jang, Y.-J.: Investigating Factors Affecting Electronic Word-Of-Mouth In The Open Market Context: A Mixed Methods Approach. In: PACIS, pp. 167. (2012) 15.Hansen, S.S., Lee, J.K.: What drives consumers to pass along marketer-generated eWOM in social network games? social and game factors in play. Journal of theoretical and applied electronic commerce research 8, 53-68 (2013)
- 16.Lee, J., Lee, J.-N., Tan, B.C.: The contrasting attitudes of reviewer and seller in electronic word-of-mouth: a communicative action theory perspective. Asia Pacific Journal of Information Systems 23, 105-129 (2013)
- 17.Tong, Y., Wang, X., Tan, C.-H., Teo, H.-H.: An empirical study of information contribution to online feedback systems: A motivation perspective. Information & Management 50, 562-570 (2013)
- 18.Zhang, Y., Lv, T.: Analysis of the relationship between involvement and the internet word-of-mouth. In: 2010 2nd IEEE InternationalConference on Network Infrastructure and Digital Content, pp. 1018-1024. IEEE, (2010)
- 19. Cheung, C.M., Lee, M.K.: What drives consumers to spread electronic word of mouth in online consumer-opinion platforms. Decision support systems 53, 218-225 (2012)
- 20.Horng, S.-M.: A study of active and passive user participation in virtual communities. Journal of Electronic Commerce Research 17, (2016)
- 21.Niu, H., Wang, X., Sun, N.: Influences of external incentives on consumers' positive electronic word-of-mouth intention. Mark Sci Innov Econ Dev 236-244 (2010)
- 22. Wolny, J., Mueller, C.: Analysis of fashion consumers' motives to engage in electronic word-of-mouth communication through social media platforms. Journal of marketing management 29, 562-583 (2013)
- 23.Hennig-Thurau, T., Gwinner, K.P., Walsh, G., Gremler, D.D.: Electronic word-of-mouth via consumer-opinion platforms: what motivates consumers to articulate themselves on the internet? Journal of interactive marketing 18, 38-52 (2004)
- 24.Nagy, A., Kemény, I., Szűcs, K., Simon, J., Kiss, V.: Are opinion leaders more satisfied? Results of a SEM model about the relationship between opinion leadership and online customer satisfaction. Society and Economy 39, 141-160 (2017)

- 25.Sun, T., Youn, S., Wu, G., Kuntaraporn, M.: Online word-of-mouth (or mouse): An exploration of its antecedents and consequences. Journal of Computer-Mediated Communication 11, 1104-1127 (2006)
- 26.Kucukemiroglu, S., Kara, A.: Online word-of-mouth communication on social networking sites: An empirical study of Facebook users. International journal of commerce and management 25, 2-20 (2015)
- 27.Yoo, C.W., Sanders, G.L., Moon, J.: Exploring the effect of e-WOM participation on e-Loyalty in e-commerce. Decision Support Systems 55, 669-678 (2013)
- 28.Frasquet, M., Ruiz-Molina, M.-E., Molla-Descals, A.: The role of the brand in driving online loyalty for multichannel retailers. The International Review of Retail, Distribution and Consumer Research 25, 490-502 (2015)
- 29.Huang, L., Shao, J., Wang, W.: Research on the relationships between hotel internet word-of-mouth and customers' behavior intention based on trust. In: 2013 6th International conference on information management, innovation management and industrial engineering, pp. 250-254. IEEE, (2013)
- 30.Jin, X., Xiang, L., Lee, M.K., Cheung, C.M., Zhou, Z., Zhao, D.-T.: Electronic Word-Of-Mouth Contribution Continuance in Online Opinion Platforms: The Role of Multiple Commitments. In: PACIS, pp. 149. (2010)
- 31.Li, C.-H., Chang, C.-M.: The influence of trust and perceived playfulness on the relationship commitment of hospitality online social network-moderating effects of gender. International Journal of Contemporary Hospitality Management 28, 924-944 (2016)
- 32.De Meyer, C., Petzer, D.: Product involvement and online word-of-mouth in the south African fast food industry. READINGS BOOK 205 (2013)
- 33.Lii, Y.-s., Lee, M.: The joint effects of compensation frames and price levels on service recovery of online pricing error. Managing Service Quality: An International Journal 22, 4-20 (2012)
- 34. Tirunillai, S., Tellis, G.J.: Does chatter really matter? Dynamics of user-generated content and stock performance. Marketing Science 31, 198-215 (2012)
- 35.Rialti, R., Zollo, L., Pellegrini, M.M., Ciappei, C.: Exploring the antecedents of brand loyalty and electronic word of mouth in social-media-based brand communities: do gender differences matter? Journal of Global Marketing 30, 147-160 (2017)
- 36.Yeh, Y.-H., Choi, S.M.: MINI-lovers, maxi-mouths: An investigation of antecedents to eWOM intention among brand community members. Journal of Marketing Communications 17, 145-162 (2011)
- 37.Nusair, K., Hua, N., Ozturk, A., Butt, I.: A theoretical framework of electronic word-of-mouth against the backdrop of social networking websites. Journal of Travel & Tourism Marketing 34, 653-665 (2017)
- 38.Ismagilova, E., Slade, E.L., Rana, N.P., Dwivedi, Y.K.: The Effect of Electronic Word of Mouth Communications on Intention to Buy: A Meta-Analysis. Information Systems Frontiers 1-24 (2019)
- 39.Jeyaraj, A., Rottman, J.W., Lacity, M.C.: A review of the predictors, linkages, and biases in IT innovation adoption research. Journal of information technology 21, 1-23 (2006)
- 40.Rana, N.P., Dwivedi, Y.K., Williams, M.D.: A meta-analysis of existing research on citizen adoption of e-government. Information Systems Frontiers 17, 547-563 (2015)

41.Dwivedi, Y.K., Rana, N.P., Jeyaraj, A., Clement, M., Williams, M.D.: Re-examining the unified theory of acceptance and use of technology (UTAUT): Towards a revised theoretical model. Information Systems Frontiers 21, 719-734 (2019)