# A STUDY ON INFORMATION REVELATION AND INTERNET PRIVACY CONCERN ON SOCIAL NETWORK SITES OF FACEBOOK: A CASE STUDY OF NON-TRAINED SUBSTITUTE TEACHERS OF UNIVERSITI UTARA MALAYSIA

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## **ABSTRACT**

The purpose of this study is to determine the relationship between Internet privacy concerns and information revelation on Facebook among non-trained substitute teachers of Universiti Utara Malaysia. Facebook is one of the social network sites that increasingly attract millions of users in the cyber world, many have used this site into their daily practice to establish or maintain their social networks connection with others.

In this study, there are five objectives constructed to evaluate the relationship between Internet privacy concerns and information revelation on Facebook. The findings revealed that there are no relationships between Internet privacy concerns and information revelation on Facebook. Data are gathered using questionnaires and analysed by using Statistical Package for Social Science Software (SPSS). The paper finally presents the outcome of the study, together with the limitations and avenues for future research of this topic.

Keywords: Facebook, Internet privacy concerns, information revelation, social network sites.

## KAJIAN TENTANG KEPERIHATINAN TERHADAP PRIVASI INTERNET DAN PENDEDAHAN MAKLUMAT DI DALAM LAMAN RANGKAIAN SOSIAL FACEBOOK: KAJIAN KES DALAM KALANGAN GURU SANDARAN TIDAK TERLATIH DI UNIVERSITI UTARA MALAYSIA

## **ABSTRAK**

Tujuan kajian ini adalah untuk menentukan hubungan antara keperihatinan terhadap privasi Internet dan pendedahan maklumat di dalam Facebook di kalangan guru sandaran tidak terlatih di Universiti Utara Malaysia. Facebook merupakan salah satu laman rangkaian sosial yang semakin menarik berjuta-juta pengguna di dunia siber, ramai yang telah menggunakan laman ini di dalam rutin harian mereka untuk mewujudkan jaringan rangkaian sosial.

Dalam kajian ini, terdapat lima objektif yang dibina untuk menilai hubungan antara keperihatinan terhadap privasi Internet dan pendedahan maklumat mengenai Facebook. Dapatan kajian menunjukkan bahawa tidak terdapat hubungan antara keperihatinan terhadap privasi Internet dan pendedahan maklumat di Facebook. Data dikumpulkan dengan menggunakan soal selidik dan dianalisis dengan menggunakan Pakej Statistik untuk Perisian Sains Sosial (SPSS). Kertas yang akhirnya membentangkan hasil kajian bersama-sama dengan had dan ruang untuk penyelidikan masa depan topik ini.

Kata kunci: Facebook, keperihatinan terhadap privasi Internet, pendedahan maklumat, laman rangkaian sosial.

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## TABLE OF CONTENTS

Certi	fication	ii		
Perm	Permission to Use			
Abst	Abstract			
Abst	rak	v		
Ackr	nowledgement	vi		
Table	e of Contents	vii		
List	of Tables	xii		
List	of Figures	xv		
СНА	PTER 1: RESEARCH PROBLEM	1		
1.1	Introduction	1		
1.2	Background of the Study	1		
1.3	Problem Statement	3		
1.4	Objective of the Study	5		
1.5	Research Questions	6		
1.6	Scope of the Study	7		
1.7	Significance of the Study	7		
СНА	PTER 2: LITERATURE REVIEW	8		
2.1	Introduction	8		
2.2	Social Network Sites	8		
2.3	Introduction of Facebook	10		
2.4	Frequency Use of Facebook	13		
2.5	Personal Network Size on Facebook	14		
2.6	Concern for Internet Privacy on Facebook	15		
2.7	Concern for Unwanted Audiences on Facebook	16		
2.8	Profile Visibility on Facebook	17		
2.9	Information Revelation on Facebook	18		
2.10	Summary	19		

CHA	APTER	3: METHODOLOGY	20
3.1	Introd	uction	20
3.2	Hypot	heses of the Study	20
3.3	Theore	etical Framework	23
3.4	Resear	ch Design	24
3.5	Popula	ntion and Sample	25
3.6	Instru	mentation	25
	3.6.1	Information Revelation	26
	3.6.2	Frequency of Facebook Use	26
	3.6.3	Facebook Personal Network Size	26
	3.6.4	Concern for Internet Privacy	27
	3.6.5	Profile Visibility	27
	3.6.6	Concern for Unwanted Audiences	27
3.7	Data C	Collection Procedures	28
3.8	Metho	d of Data Analysis	28
3.9	Summary		
CHA	APTER	4: FINDINGS	30
4.1	Introd	uction	30
4.2	Profile	of Respondents	30
	4.2.1	Facebook User	31
	4.2.2	Gender	31
	4.2.3	Age	32
	4.2.4	Information Revelation on Facebook	32
	4.2.5	Frequency of Facebook Use	33
	4.2.6	Facebook Personal Network Size	34
	4.2.7	Concern for Internet Privacy	35
	4.2.8	Profile Visibility	36
	4.2.9	Concern for Unwanted Audiences	37
43	Hypot	heses Testing	37

4.3.1	Frequency of Facebook Use and Information Revelation			
	on Facebook			
	4.3.1.1	Frequency of Facebook Use and Revelation of		
		Relationship Status	38	
	4.3.1.2	Frequency of Facebook Use and Revelation of		
		Birth Date	40	
	4.3.1.3	Frequency of Facebook Use and Revelation of		
		Education Information	42	
	4.3.1.4	Frequency of Facebook Use and Photo Sharing	44	
	4.3.1.5	Frequency of Facebook Use and Revelation of		
		Real Name	46	
4.3.2	Faceboo	ok Personal Network Size and Information		
	Revelati	ion on Facebook	47	
	4.3.2.1	Facebook Personal Network Size and Revelation		
		of Relationship Status	48	
	4.3.2.2	Facebook Personal Network Size and Revelation		
		of Birth Date	50	
	4.3.2.3	Facebook Personal Network Size and Revelation		
		of Education Information	52	
	4.3.2.4	Facebook Personal Network Size and Photo Sharing	54	
	4.3.2.5	Facebook Personal Network Size and Revelation		
		of Real Name	56	
4.3.3	Concern	n for Internet Privacy and Information Revelation		
	on Face	book	57	
	4.3.3.1	Concern for Internet Privacy and Revelation of		
		Relationship Status	58	
	4.3.3.2	Concern for Internet Privacy and Revelation of		
		Birth Date	60	
	4.3.3.3	Concern for Internet Privacy and Revelation of		
		Education Information	62	
	4.3.3.4	Concern for Internet Privacy and Photo Sharing	64	

		4.3.3.5	Concern for Internet Privacy and Revelation of	
			Real Name	66
	4.3.4	Profile V	isibility and Information Revelation on Facebook	68
		4.3.4.1	Profile Visibility and Revelation of Relationship	
			Status on Facebook	68
		4.3.4.2	Profile Visibility and Revelation of Birth Date	70
		4.3.4.3	Profile Visibility and Revelation of Education	
			Information	71
		4.3.4.4	Profile Visibility and Photo Sharing	73
		4.3.4.5	Profile Visibility and Revelation of Real Name	74
	4.3.5	Concern	for Unwanted Audiences and Information	
		Revelati	on on Facebook	75
		4.3.5.1	Concern for Unwanted Audiences and Revelation	
			of Relationship Status	76
		4.3.5.2	Concern for Unwanted Audiences and Revelation	
			of Birth Date	78
		4.3.5.3	Concern for Unwanted Audiences and Revelation	
			of Education Information	80
		4.3.5.4	Concern for Unwanted Audiences and Photo Sharing	82
		4.3.5.5	Concern for Unwanted Audiences and Revelation	
			of Real Name	84
CHA	APTER	5: DISCU	USSION AND CONCLUSION	86
5.1	Introd	uction		86
5.2	Summ	ary of Fi	ndings	86
5.3	Discus	ssion of R	esearch Findings	87
	5.3.1	Frequen	cy of Facebook Use and Information Revelation on	
		Faceboo	k	87
	5.3.2	Faceboo	k Personal Network Size and Information	
		Revelati	on on Facebook	88

	5.3.3	Concern for Internet Privacy and Information Revelation	
		on Facebook	89
	5.3.4	Profile Visibility and Information Revelation on Facebook	89
	5.3.5	Concern for Unwanted Audiences and Information	
		Revelation on Facebook	90
5.4	Limita	tion of the Study	91
5.5 Recommendation for Future Research			91
5.6 Conclusion		91	
REFERENCES			92
APPENDICES99			95
Appe	endix A	Questionnaires	95
Anne	endix B	Data Analysis	97

## LIST OF TABLES

Table 4.1	Frequency of Demographic Information	32
Table 4.2	Frequency of Facebook Use and Relationship Status	39
Table 4.3	Chi-Square Test of Relationship between Facebook Use	
	and Relationship Status	40
Table 4.4	Frequency of Facebook Use and Revelation of Birth Date	41
Table 4.5	Chi-Square Test of Relationship between Facebook Use	
	and Revelation of Birth Date	42
Table 4.6	Frequency of Facebook Use and Education Information	43
Table 4.7	Chi-Square Test of Relationship between Facebook Use	
	and Education Information	44
Table 4.8	Frequency of Facebook Use and Photo Sharing	45
Table 4.9	Chi-square test of Relationship between Frequency of	
	Facebook Use and Photo Sharing	46
Table 4.10	Frequency of Facebook Use and Real Name	47
Table 4.11	Chi-Square Test of Relationship between Frequency of	
	Facebook Use and Real Name	48
Table 4.12	Frequency of Facebook Personal Network Size and	
	Relationship Status	49
Table 4.13	Chi-Square Test of Relationship between Personal Network	
	Size and Relationship Status	50
Table 4.14	Frequency of Facebook Personal Network Size and Birth Date	51
Table 4.15	Chi-Square Test of Relationship between Personal Network	
	Size and Birth Date	52
Table 4.16	Frequency of Facebook Personal Network Size and	
	Education Information	53
Table 4.17	Chi-Square Test of Relationship between Personal Network	
	Size and Education Information	54
Table 4.18	Frequency of Facebook Personal Network Size and Photo Sharing	55

Table 4.19	Chi-Square Test of Relationship between Personal Network	
	Size and Photo Sharing	56
Table 4.20	Frequency of Facebook Personal Network Size and Real Name	57
Table 4.21	Chi-Square Test of Relationship between Personal Network	
	Size and Real Name	58
Table 4.22	Frequency of Concern for Internet Privacy and Relationship	
	Status	59
Table 4.23	Chi-Square Test of Relationship between Concern for	
	Internet Privacy and Relationship Status	60
Table 4.24	Frequency of Concern for Internet Privacy and Birth Date	61
Table 4.25	Chi-Square Test of Relationship between Concern for	
	Internet Privacy and Birth Date	62
Table 4.26	Frequency of Concern for Internet Privacy and Education	
	Information	63
Table 4.27	Chi-Square Test of Relationship between Concern for	
	Internet Privacy and Education Information	64
Table 4.28	Frequency of Concern for Internet Privacy and Photo Sharing	65
Table 4.29	Chi-Square Test of Relationship between Concern for	
	Internet Privacy and Photo Sharing	66
Table 4.30	Frequency of Concern for Internet Privacy and Real Name	67
Table 4.31	Chi-Square Test of Relationship between Concern for	
	Internet Privacy and Real Name	68
Table 4.32	Frequency of Profile Visibility and Relationship Status	69
Table 4.33	Chi-Square Test of Relationship between Profile Visibility	
	and Relationship Status	70
Table 4.34	Frequency of Profile Visibility and Birth Date	71
Table 4.35	Chi-Square Test of Relationship between Profile Visibility	
	and Birth Date	71
Table 4.36	Frequency of Profile Visibility and Education Information	72
Table 4.37	Chi-Square Test of Relationship between Profile Visibility	
	and Education Information	73

Table 4.38	Frequency of Profile Visibility and Photo Sharing	74
Table 4.39	Chi-Square Test of Relationship between Profile Visibility	
	and Photo Sharing	74
Table 4.40	Frequency of Profile Visibility and Real Name	75
Table 4.41	Chi-Square Test of Relationship between Profile Visibility	
	and Real Name	76
Table 4.42	Frequency of Concern for Unwanted Audiences and	
	Relationship Status	77
Table 4.43	Chi-Square Test of Relationship between Concern for	
	Unwanted Audiences and Relationship Status	78
Table 4.44	Frequency of Concern for Unwanted Audiences and Birth Date	79
Table 4.45	Chi-Square Test of Relationship between Concern for	
	Unwanted Audiences and Birth Date	80
Table 4.46	Frequency of Concern for Unwanted Audiences and	
	Education Information	81
Table 4.47	Chi-Square Test of Relationship between Concern for	
	Unwanted Audiences and Education Information	82
Table 4.48	Frequency of Concern for Unwanted Audiences and Photo	
	Sharing	83
Table 4.49	Chi-Square Test of Relationship between Concern for	
	Unwanted Audiences and Photo Sharing	84
Table 4.50	Frequency of Concern for Unwanted Audiences and Real Name	85
Table 4.51	Chi-Square Test of Relationship between Concern for	
	Unwanted Audiences and Real Name	86

## LIST OF FIGURES

Figure 2.1	Share of Total Time Spent Online	10
Figure 2.2	Monthly US Unique Visitor Trend	11
Figure 2.3	Top 10 Global Markets by Facebook.com	12
Figure 3.1	Theoretical Framework	24
Figure 4.1	Information Revelation on Respondents' Profile	32
Figure 4.2	Frequency of Facebook Use on Daily and Weekly Basis	33
Figure 4.3	Facebook Personal Network Size on Facebook	34
Figure 4.4	Concern for Internet Privacy Among Respondents	35
Figure 4.5	Facebook Profile Visibility Among Friends and Everyone	
	on Facebook Network	36
Figure 4.6	Concern for Unwanted Audiences on Facebook	37

## CHAPTER 1

## RESEARCH PROBLEM

## 1.1 Introduction

Social network sites have become increasingly popular, with an estimation of 80 to 90 percent of students actively participating in services such as Myspace, Friendster and Facebook (Strater & Richter, 2007). What makes students attracted to social network sites is their ability to converse with friends, share digital cultural artifacts and ideas, and connect to vast networks of people (Boyd & Heer, 2006). Regardless of these potential advantages, academicians and medias have raised concerns about the risks associated with the disclosure of personal information on social network sites (Barnes, 2006; Govani & Pashley, 2005; Gross & Acquisti, 2005).

## 1.2 Background of the Study

Facebook is one of the social network sites that progressively attract millions of Internet users in the cyberspace. Many have used this site into their daily practices to establish or maintain their social network connections with others. Facebook implemented an extensive range of features; a visible profile that display profile picture, current status and posts, photo albums, birthdays, group messages, an account setting and privacy setting. Facebook also offers a possibility to find a person that have Yahoo or Hotmail e-mail address that also have Facebook account. This page can be oriented towards education-related context, romantic relationship, linking people with common interests such as

# The contents of the thesis is for internal user only

## REFERENCES

- Acquisti, A. & Gross, R. (2006). Imagined communities: Awareness, information sharing, and privacy on the Facebook. In Golle, P. & Danezis, G. (Eds.), *Proceedings of 6<sup>th</sup> Workshop on Privacy Enhancing Technologies (PET)*, 36-58. Cambridge, United Kingdom. Retrieved from http://www.heinz.cmu.edu/~acquisti/papers/acquisti-gross-facebook-privacy-PET-final.pdf
- Barnes, S. B. (2006, September 4). A privacy paradox: Social networking in the United States. *First Monday*, *11*(9). Retrieved from http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1394/1312
- Boyd, D. M. & Ellison, N. B. (2007). Social network sites: Definition, history, and scholarship. *Journal of Computer-Mediated Communication*, *13* (1), article 11. Retrieved from http://jcmc.indiana.edu/vol13/issue1/boyd.ellison.html
- Boyd, D. M. & Heer, J. (2006). Profiles as conversation: Networked identity performance on Friendster. In *Proceedings of The Hawaii International Conference on System Sciences (HICSS-39)*, Kauai, Hawaii.
- Boyd, D. M. & Marwick, A. E. (2011, September 22). Social privacy in networked publics: teens' attitudes, practices, and strategies. *A Decade in Internet Time: Symposium on the Dynamics of the Internet and Society.* Retrieved from http://www.danah.org/papers/2011/SocialPrivacyPLSC-Draft.pdf
- Comscore. (2011, March 23). *Top Facebook Markets by Percent Reach*. Retrieved from http://www.comscoredatamine.com/2011/03/top-facebook-markets-by-percent-reach/
- Facebook. (2012). *Key Facts: Statistics*. Retrieved from http://newsroom.fb.com/content/default.aspx?NewsAreaId=22
- Fox, S., Rainie, L., Horrigan, J., Lenhart, A., Spooner, T., & Carter, C. (2000, August 20). Trust and privacy online: Why Americans want to rewrite the rules. *The PEW Internet and American Life Project*. Retrieved from http://pewinternet.org/~/media//Files/Reports/2000/PIP\_Trust\_Privacy\_Report.pdf.pdf
- Govani, T. & Pashley, H. (2005, December 14). Student awareness of the privacy implications when using Facebook. Paper presented at the Privacy Poster Fair at Carnegie Mellon University School of Library and Information Science. 105-110. Retrieved from http://lorrie.cranor.org/courses/fa05/tubzhlp.pdf
- Gross, R. & Acquisti, A. (2005, November 7). Information revelation and privacy in online social networks (The Facebook case). *ACM Workshop on Privacy in the Electronic Society (WPES)*. 71–80. Retrieved from http://privacy.cs.cmu.edu/dataprivacy/projects/facebook/facebook1.pdf

- Hafner, K. (2009, December 20). To deal with obsession, some defriend Facebook. *The New York Times*. Retrieved from http://www.nytimes.com/2009/12/21/technology/internet/21facebook.html?pagewanted=all
- Hirst, A., Bednall, D., Ashwin, M., & Icoz, O. (2009). The use and abuse of online social network sites by Gen Y in the EU: Can marketing make a difference? In *ICBME 2009: Proceedings of the 5<sup>th</sup> International Conference on Business, Management, and Economics*. Yasar University, Izmir, Turkey. Retrieved from http://www.wbiconpro.com/10.Marie.pdf
- Joinson, A. N., Reips, U. D., Buchanan, T. B., & Paine-Schofield, C.B. (2008). Privacy, trust and self-disclosure online. *Human-Computer Interaction*, 25 (1), 1–24. Retrieved from http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.159.6595
- Jones, H. & Soltren, J. H. (2005, December 14). *Facebook: Threats to privacy*. Cambridge, MA: Massachusetts Institute of Technology. Retrieved from http://groups.csail.mit.edu/mac/classes/6.805/student-papers/fall05papers/facebook.pdf
- Kerlinger, R. N. (1986). *Foundations of behavioral research* (3<sup>rd</sup> ed.). New York: Holt, Rinehart and Winston.
- Lampe, C., Ellison, N., & Steinfield, C. (2006). A Face(book) in the crowd: Social searching vs. social browsing. In *CSCW '06: Proceedings of the 2006 20<sup>th</sup> Anniversary Conference on Computer Supported Cooperative Work.* 167-170. Banff, Alberta, Canada.
- Lampe, C., Ellison, N., & Steinfield, C. (2007). A familiar Face(book): Profile elements as signals in an online social network. *In Proceedings of Conference on Human Factors in Computing Systems*. 435-444. ACM Press, New York. Retrieved from https://www.msu.edu/~steinfie/CHI\_manuscript.pdf
- Lange, P. G. (2007). Publicly private and privately public: Social networking on Youtube. *Journal of Computer-Mediated Communication*, 13(1), article 18. Retrieved from http://jcmc.indiana.edu/vol13/issue1/lange.html
- Lashkari, A. H., Ramachandran, A., Parhizkar, B., Navaratnam, S. (2010). Privacy and vulnerability issues of social networks (Facebook). In Proceedings of International Conference on Internet Technology and Security (ITS). China.
- Lipsman, A. (2011, June 15). The network effect: Facebook, Linkedin, Twitter & Tumblr reach new heights in May. *Comscore*. Retrieved from http://blog.comscore.com/2011/06/facebook\_linkedin\_twitter\_tumblr.html
- Mohd Majid Konting (1993). *Kaedah penyelidikan pendidikan*. Kuala Lumpur: Dewan Bahasa dan Pustaka.
- Pew Internet & American Life Project Poll. (2006). Retrieved from http://www.pewinternet.org/Static-Pages/Data-Tools/Explore-Survey-Questions/RoperCenter.aspx?item={B82B8D96-587E-471F-8BAD-FB5D84481B9C}

- Sekaran, U. (2000). *Research Methods for Business: A Skill-Building Approach* (3<sup>rd</sup> Ed.). John-Wiley & Sons, Inc.
- Strater, K. & Richter, H. (2007). Examining privacy and disclosure in a social networking community. In *SOUPS '07: Proceedings of the 3<sup>rd</sup> Symposium On Usable Privacy and Security*. 157-158. New York, USA.
- Sunden, J. (2003). *Material Virtualities: Approaching Online Textual Embodiment*. New York: Peter Lang Publishing.
- Tufekci, Z. (2008). Can you see me now? Audience and disclosure regulation in online social network sites. *Bulletin of Science, Technology, and Society.* 28 (1), 20-36. Retrieved from http://uni.opole.pl/~wanke/masowe/Zeynep\_Tufekci\_-\_Can\_You \_See\_Me\_Now\_Audience\_and\_Disclosure\_Regulation\_in\_Online\_Social\_Netwo rk\_Sites\_-\_Bulletin\_of\_Science\_Technology\_and\_Society\_1\_2008.pdf
- Valenzuela, S., Park, N., & Kee, K. F. (2009). Is there social capital in a social network site?: Facebook use and college students' life satisfaction, trust, and participation. *Journal of Computer-Mediated Communication 14* (4). 875-901.
- Viseu, A., Clement, A., & Aspinall, J. (2004). Situating privacy online: Complex perception and everyday practices. *Information, Communication & Society.* 7 (1). 92-114. Retrieved from http://www.yorku.ca/aviseu/pdf%20files/priv\_online.pdf
- Waisitham. (2010, April 26). Social networking sites have taken certain stances to support stalking. Online Conference on Networks and Communities. Department of Internet Studies, Curtin University of Technology. Retrieved from http://networkconference.netstudies.org/2010/04/social-networking-sites-have-taken-certain-stances-to-support-stalking/
- Wellman, B. (1996). Are personal communities local? A dumptarian reconsideration. *Social Networks*, *18* (4), 347-354. Retrieved from http://homes.chass.utoronto.ca/~wellman/publications/personal/personal.pdf
- Wen, C., Tan, B. C. Y., & Chang, K. T. (2009). Advertising Effectiveness on Social Network Sites: An Investigation of Tie Strength, Endorser Expertise and Product Type on Consumer Purchase Intention. In *ICIS 2009 Proceedings*. Paper 151. Retrieved from http://aisel.aisnet.org/cgi/viewcontent.cgi?article=1054&context=icis2009
- Young, A. L. & Quan-Haase, A. (2009). Information revelation and internet privacy concerns on social network sites: a case study of Facebook. In *Proceedings of the 4<sup>th</sup> International Conference on Communities and Technologies*. 265-274. New York, USA. Retrieved from http://sozio-informatik.net/fileadmin/IISI/upload/2009/p265.pdf