Trust and privacy concern within social networking sites: A comparison of Facebook and MySpace

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ABSTRACT

It is not well understood how privacy concern and trust influence social interactions within social networking sites. An online survey of two popular social networking sites, Facebook and MySpace, compared perceptions of trust and privacy concern, along with willingness to share information and develop new relationships. Members of both sites reported similar levels of privacy concern. Facebook members expressed significantly greater trust in both Facebook and its members, and were more willing to share identifying information. Even so, MySpace members reported significantly more experience using the site to meet new people. These results suggest that in online interaction, trust is not as necessary in the building of new relationships as it is in face to face encounters. They also show that in an online site, the existence of trust and the willingness to share information do not automatically translate into new social interaction. This study demonstrates online relationships can develop in sites where perceived trust and privacy safeguards are weak.

Keywords

trust, privacy, social networking sites, hedonic information systems

INTRODUCTION

Social networking sites are a type of virtual community that has grown tremendously in popularity over the past few years. The social networking site MySpace ranks sixth in overall web traffic, with over 47 million unique US visitors each month (QuantCast, 2007b). The web traffic data for Facebook, a social networking site oriented towards college students, shows 15 million unique US visitors a month (QuantCast, 2007a).

When people join social networking sites, they begin by creating a profile, then make connections to existing friends as well as those they meet through the site. A profile is a list of identifying information. It can include your real name, or a pseudonym. It also can include photographs, birthday, hometown, religion, ethnicity, and personal interest. Members connect to others by sending a "friend" message, which must be accepted by the other party in order to establish a link. "Friending" another member gives them access to your profile, adds them to your social network, and vice versa.

Members use these sites for a number of purposes. The root motivation is communication and maintaining relationships. Popular activities include updating others on activities and whereabouts, sharing photos and archiving events, getting updates on activities by friends, displaying a large social network, presenting an idealized persona, sending messages privately, and posting public testimonials.

This paper describes a study of the impact of trust and internet privacy concern on the use of social networking sites for social interaction. It begins with a summary of relevant research related to social networking sites. The online survey methodology is described and the results presented, followed by limitations and conclusions.

RELATED LITERATURE

Trust and privacy in social networking sites

Trust is defined in (Mayer, Davis, and Schoorman, 1995) as "the willingness of a party to be vulnerable to the actions of another party based on the expectation that the other will perform a particular action important to the trustor, irrespective of the ability to monitor or control that other party" (p. 712). For face to face, trust is a critical determinant of sharing information and developing new relationships (Fukuyama, 1995, Lewis and Weigert, 1985). Trust is also important for successful online interactions (Coppola, Hiltz, and Rotter, 2004, Jarvenpaa and Leidner, 1998, Meyerson, 1996, Piccoli and Ives, 2003).

Electronic commerce research has found trust to be strongly related to information disclosure (Metzger, 2004). Trust is also a central component of social exchange theory (Roloff, 1981). Social exchange theory presents a cost benefit analysis with respect to social interaction. If the exchange is perceived to be beneficial, then the individual is likely to enter into an exchange relationship. Trust is believed to be used in the calculation of perceived cost. High trust would lead to a perception of low cost, and vice versa. Studies of interpersonal exchange situations confirm that trust is a precondition for self-disclosure, because it reduces perceived risks involved in revealing private information (Metzger, 2004).

Millions of people have joined social networking sites, adding profiles that reveal personal information. The reputations of social networking sites has been diminished by a number of incidents publicized by the news media (Chiaramonte and Martinez, 2006, Hass, 2006, Mintz, 2005, Read, 2006). Is it possible to join a network of millions of people and be able to trust all of them? This does not seem realistic. Since people are obviously joining networks and revealing information, what role does trust play in the use of social networking sites?

Privacy within social networking sites is often not expected or is undefined (Dwyer, 2007). Social networking sites record all interactions, and retain them for potential use in social data mining. Offline, most social transactions leave behind no trace. This lack of a record is a passive enabler of social privacy (Lessig, 1998). Therefore these sites need explicit policies and data protection mechanisms in order to deliver the same level of social privacy found offline. Since online social privacy is harder to guarantee, does a higher level of concern for internet privacy affect the use of social networking sites?

Previous research on social networking sites

Studies of the first popular social networking site, Friendster, (boyd, 2004, boyd, 2006, boyd and Heer, 2006, Donath and boyd, 2004) describe how members create their profile with the intention of communicating news about themselves to others. Boyd, using an ethnographic approach, reveals the possibility of unintended consequences. As in other social networking sites, Friendster members create a profile and make public links to others. What if there is something about your friend's page that might cause embarrassment if viewed out of context? Although members can control what appears on their profile, they cannot control what appears on a friend's profile. Crude pictures on a friend's profile caused concern for a teacher when her students asked to 'friend' her. This placed her in an awkward position, because allowing students access to her profile would also allow them to view her friends, who she knew to have risqué pictures on their profile (boyd, 2004). This incident demonstrates that concerns raised by navigating issues of privacy and trust were apparent in the first scholarly articles on social networking sites.

Facebook, a social networking site that began with a focus on colleges and universities, but now includes high schools and other organizations, has been studied by (Acquisti and Gross, 2006, Lampe, Ellison, and Steinfield, 2007, Stutzman, 2006). These studies have collected profile information from Facebook through the use of a web crawler, and through surveys of members. They show that Facebook members reveal a lot of information about themselves, and are not very aware of privacy options or who can actually view their profile (Acquisti and Gross, 2006).

RESEARCH QUESTIONS AND METHODOLOGY

Although trust has been shown to be a factor in previous studies of online systems, . the systems described did not involve millions of people. How does trust influence social interactions on sites that involve such a large number of people? This leads to the following research question:

RQ1: For members of social networking sites, how does trust in the site and its other members affect willingness to share information and develop new relationships?

The use of technology to carry out communication leads to persistence (Erickson and Kellogg, 2000). A digital message can remain as part of a system for an undefined and undisclosed period of time. This makes the management of privacy, both for the individual and for organizations, extremely complex. Is a person's concern for the privacy of their social interaction record a factor in whether they use these sites? This leads to the second research question:

RQ2: For members of social networking sites, what is the relationship between internet privacy concern and their willingness to share information and develop new relationships?

The diagram shown in Figure 1 provides a visualization of the theoretical model that guided data collection and analysis for this study. The independent variables are internet privacy concern, trust in the social networking site, and trust in other members of social networking sites. How do they relate to the outcomes being measured with respect to the use of social networking sites, specifically information sharing and development of new relationships?

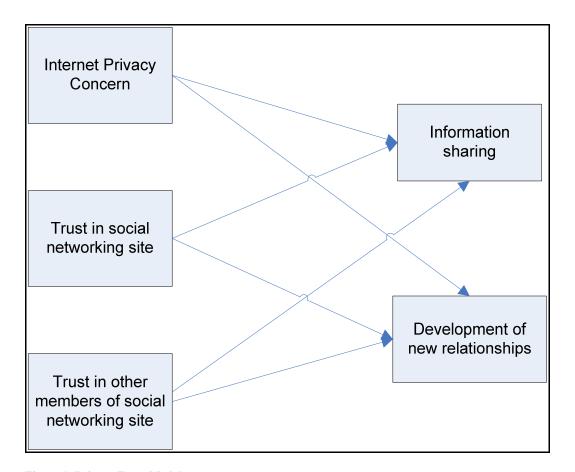


Figure 1: Privacy Trust Model

Selection of two social networking sites for comparative study

The majority of prior academic studies focus on one site, whereas one objective of this research is to compare data on two sites. This study applies the same measures of concern for privacy and trust to members of different sites, and then looks for variances in behavior. This will enable further research questions to be formed and tested, such as how a site's culture or technical functionality may influence behavior.

The two social networking sites, Facebook and MySpace, were selected because they have both similarities and differences. Both sites are very popular, with millions of members. Facebook initially built the site for use by college students but MySpace is also very popular among college students. While these two sites attract from the same pool of primarily 18 to 30

year olds, they have very different styles. Facebook's association with physical entities, i.e. universities, helps vouch for the authenticity of its members. MySpace, the largest social networking site in the world, has a poor reputation in terms of trust. Schools have attempted to prohibit their students' use of the site, and law enforcement officials allege that MySpace is used by sexual predators to lure teenagers (Schrobsdorff, 2006). A more extensive review of technical functionalities and mechanisms triggering social interaction is also being conducted on both sites to better understand key socio-technical differences that may explain changes in perceptions among users.

An online survey was designed, with versions customized for Facebook and MySpace. The questions are the same for both social networking sites. A few adjustments were made to be consistent with the terminology associated with each site. For example, Facebook members can leave a public note for another member on a space on their profile called "The Wall." For MySpace, these are posted in the profile section labeled "Comments."

Description of the survey instrument

Survey questions were created to capture perceptions of trust, internet privacy concern, information sharing, general use of the site, and the development of new relationships. These questions derive from a qualitative study conducted by (Dwyer, 2007). Each question was re-worded for the two surveys. For example, the Facebook survey includes the question "I prefer to send a message to a friend using Facebook rather than through using email." The MySpace version says "I prefer to send a message to a friend using MySpace rather than through using email." When combined results for these questions are described in this paper, the generic [SNS], an abbreviation for social networking site, will be used.

The survey asked subjects to indicate what personal information they include in their profile. Options included photograph, real name, hometown, e-mail address, cell phone number, relationship status (i.e. in a relationship or single), sexual orientation, and instant messenger screen name.

One question was included to capture feelings regarding meeting new people: "I find it easy to meet new people on [SNS]." Members were also asked if they had initiated contact with a person they met on the social networking site using another communications method, such as face to face, e-mail, telephone, or instant messenger.

Measures of privacy concern

Of great interest to researchers is the relationship between privacy concerns and online behavior. Studies have indicated that users will express very strong concerns about privacy of their personal information, but be less than vigilant about safeguarding it (Awad and Krishnan, 2006).

A scale containing questions related to internet privacy is described in (Buchanan, Paine, Joinson, and Reips, in press). For example: "In general, how often are you concerned about your privacy while you are using the internet?" (Buchanan et al., in press) reports that the scale loads on one factor. A subset of five out of the original 16 questions (those with the highest factor loading) was selected for this study. The responses are a seven point semantic differential scale anchored by "Never" (1) to "Always" (7).

Measures of trust

Two questions address members' trust in the social networking site: "I trust that [SNS] will not use my personal information for any other purpose" and "I feel that the privacy of my personal information is protected by [SNS]." Two questions relate to trust in other members of the site: "I believe most of the profiles I view on [SNS] are exaggerated to make the person look more appealing" and "I worry that I will be embarrassed by wrong information others post about me on [SNS]." Each is a seven point semantic differential anchored by "Strongly Disagree" (1) to "Strongly Agree" (7).

RESULTS

Participants

The subjects were recruited through ad-hoc methods. One author created a profile on Facebook and MySpace, and posted invitations to participate in the survey in public groups and forums. Subjects were rewarded with a coupon for one free

download from iTunes. The 117 subjects include 69 Facebook members (29 male and 40 female) and 48 MySpace members (29 males and 19 females). Facebook subjects average age of 20.36 makes them slightly younger than MySpace subjects: at 22. 93 years (F ratio = 19.306, p <.001). For this and all other significance tests reported, ANOVA was used.

Facebook's target audience during the time of the survey (August 2006) was college students. Shortly after the survey was completed, Facebook announced it will no longer restrict membership to individuals affiliated with institutions of higher education. MySpace is a more general interest social networking site, with a focus on music and popular culture. 84% of Facebook subjects reported a current school affiliation, compared to 65% of MySpace subjects. There was no significant difference in the ethnic diversity of Facebook versus MySpace subjects.

Frequency and type of use

No significant differences were found between Facebook and MySpace for frequency or type of use. Most subjects are very active users: 55% of Facebook members and 60% of MySpace members access the site every day. About 82% of Facebook members report updating their profile "once in a while," as do 72% of MySpace members. And 8% of Facebook subjects post a public comment to a friend's profile on a daily basis, while 18% of MySpace subjects do so daily.

Internet privacy results

The five item internet privacy scale demonstrates high reliability (Cronbach's alpha = .866), so the items are added together to form a combined scale with a range from 5 to 35. There is no significant difference in the means of the combined scale, which for Facebook is 22.941, and for MySpace is 23.708. All items had means above the midway point (4 out of 7) toward the "Strongly agree" anchor, indicating that the level of concern is slightly above neutral.

Results from measures of trust

The summary of trust related questions along with ANOVA analysis displayed in Table 1. For the question "I feel that the privacy of my personal information is protected by [SNS]," the Facebook mean of 3.884 is significantly higher than the MySpace mean of 3.292 (F = 4.663, p = 03).

The question that generated the widest gap between Facebook and MySpace is "I believe most of the profiles I view on [SNS] are exaggerated to make the person look more appealing." The mean for Facebook is 4.29, while the mean for MySpace is 5.125, a gap of nearly one full point on a seven item scale (F= 8.243, p= .005).

No significant difference was found for the other trust questions. However the direction of the means indicate greater trust in Facebook than MySpace. For example, the Facebook mean for "I trust that [SNS] will not use my personal information for any other purpose" is 4.971, while the MySpace mean is lower, 4.396. The two significant differences, and two others that support the same findings, indicate the level of trust in Facebook is higher than the level of trust in MySpace.

The two trust in site questions have a Cronbach's alpha of .668. This is a weak reliability result, however for new research results as low as .50 are acceptable, although a more established value is .7 (Goodhue, Klein, and March, 2000). Thus these two questions will be combined for statistical analysis. Members of Facebook demonstrate significantly higher trust in the site based on the combined measures (Facebook mean is 8.8382, MySpace is 7.6875, F=4.511, p=.036). The two questions related to trust in other members do not have an acceptable reliability, and will be treated as separate measures.

Construct	Semantic Diff. 1(SD) - 7 (SA)	Faceboo	k (N=68)	MySpa	ce (N=48)	F Ratio	Sig.
		Mean	S.D	Mean	S.D.		
trust in site	I feel that the privacy of my personal information is protected by [SNS].	3.884	1.409	3.292	1.529	4.663	0.033*
trust in site	I trust that [SNS] will not use my personal information for any other purpose.	4.971	1.630	4.396	2.121	2.721	0.102
	Cronbach's a	lpha = .668	3				
trust in other members	I believe most of the profiles I view on [SNS] are exaggerated to make the person look more appealing.	4.290	1.619	5.125	1.438	8.243	0.005**
trust in other members	I worry that I will be embarrassed by wrong information others post about me on [SNS].	3.104	1.843	2.813	1.646	.766	.383
	Cronbach's a	alpha = .148	}				
	** p < .01,						
	Scale is from Strongly Disagr	ee (1) to St	rongly Agre	ee (7)			

Table 1: Facebook and MySpace trust measurements.

Information sharing within social networking sites

Several significant differences were found between the sites with regard to sharing information (see Table 2). For example, Facebook subjects disclosed significantly more identifying information such as real name, email address, and so forth, compared to MySpace. 100% of the Facebook members reveal their real name in their profile, compared to 66.7% of MySpace members. 94% of Facebook members include their email address, compared to about 40% of MySpace members. MySpace members were significantly more likely to reveal their relationship status.

	Photograph of yourself	Real name	Hometown	Email address	Cell phone number	Relationship status	Sexual orientation	Instant messenger screen name
Mean	98.6%	100.0%	92.8%	94.2%	37.7%	73.9%	78.3%	71.0%
S.D.	12.0%	0.0%	26.1%	23.5%	48.8%	44.2%	41.5%	45.7%
Mean	100.0%	66.7%	91.7%	39.6%	6.3%	89.6%	75.0%	41.7%
S.D.	0.0%	47.6%	27.9%	49.4%	24.5%	30.9%	43.8%	49.8%
	n.s.	.0001***	n.s.	.0001***	.0001***	.030*	n.s.	0.002**
	S.D. Mean	Mean 98.6% S.D. 12.0% Mean 100.0% S.D. 0.0%	Mean 98.6% 100.0% S.D. 12.0% 0.0% Mean 100.0% 66.7% S.D. 0.0% 47.6%	Mean 98.6% 100.0% 92.8% S.D. 12.0% 0.0% 26.1% Mean 100.0% 66.7% 91.7% S.D. 0.0% 47.6% 27.9%	of yourself name Hometown address Mean 98.6% 100.0% 92.8% 94.2% S.D. 12.0% 0.0% 26.1% 23.5% Mean 100.0% 66.7% 91.7% 39.6% S.D. 0.0% 47.6% 27.9% 49.4%	Photograph of yourself Real name Hometown Email address number phone number Mean 98.6% 100.0% 92.8% 94.2% 37.7% S.D. 12.0% 0.0% 26.1% 23.5% 48.8% Mean 100.0% 66.7% 91.7% 39.6% 6.3% S.D. 0.0% 47.6% 27.9% 49.4% 24.5%	Photograph of yourself Real name Hometown Email address address phone number status Relationship status Mean 98.6% 100.0% 92.8% 94.2% 37.7% 73.9% S.D. 12.0% 0.0% 26.1% 23.5% 48.8% 44.2% Mean 100.0% 66.7% 91.7% 39.6% 6.3% 89.6% S.D. 0.0% 47.6% 27.9% 49.4% 24.5% 30.9%	Photograph of yourself Real name Hometown Email address number address Phone number number status Relationship status Sexual orientation Mean 98.6% 100.0% 92.8% 94.2% 37.7% 73.9% 78.3% S.D. 12.0% 0.0% 26.1% 23.5% 48.8% 44.2% 41.5% Mean 100.0% 66.7% 91.7% 39.6% 6.3% 89.6% 75.0% S.D. 0.0% 47.6% 27.9% 49.4% 24.5% 30.9% 43.8%

Table 2: Summary of information shared.

Development of new relationships through social networking sites

MySpace subjects were significantly more likely to agree with the question "I find it easy to meet new people by using [SNS]" (F = 4.621, p= .034). The strength of new relationships can be indirectly measured by whether subjects extended contact using other communication channels. A new online relationship has more substance if a person uses other communication methods, such as a telephone, instant messenger, or even face to face, to contact the new friend. Indications of the use of additional communication channels has also been used to measure the strength of relationships first developed within an online cancer support group (Schweizer, Leimeister, and Krcmar, 2006).

The summary of results for MySpace versus Facebook is displayed in Table 3, and the ANOVA results are shown in Table 4

		Telephone	Met face to face	Instant messenger	Email	Did not communicate outside of [SNS]
Facebook	Mean	0.0%	27.5%	34.8%	18.8%	40.6%
N = 69	S.D.	0.0%	45.0%	48.0%	39.4%	49.5%
MySpace	Mean	0.0%	54.2%	60.4%	33.3%	20.8%
N = 48	S.D.	0.0%	50.4%	49.4%	47.6%	41.0%

Table 3: Facebook versus MySpace communication choices.

MySpace subjects reported using other communication channels to extend new online relationships more frequently than Facebook subjects. Over 54% of MySpace members reported meeting someone face to face, compared to 27% for Facebook. Over 60% of MySpace members reported making contact using instant messenger, compared to 34% of Facebook members. Only 20% of MySpace members reported they had not contacted anyone through another communication channel, compared to 40% of Facebook members.

ANOVA Table Facebook versus MySpace	F ratio	Sig.
Met face to face	8.988	0.003**
Instant messenger	7.884	0.006**
Email	3.223	0.075
Did not communicate outside of [SNS]	5.170	0.025*

Table 4: ANOVA results for communication choices.

DISCUSSION

These results show that Facebook members reveal more information, but MySpace members are more likely to extend online relationships beyond the bounds of the social networking site. Paradoxically, MySpace has stronger evidence of new relationship development, despite weaker trust results. Even MySpace subjects with high distrust in other members report strong levels of relationship development. The results suggest that for MySpace, trust is not as necessary in the building of new relationships as it is in face to face encounters. One explanation is that members have confidence in their capacity to evaluate others. The ability to "pull the plug" by ignoring messages or blocking access minimizes the risk of exploring online relationships. Even though MySpace members report many profiles are exaggerated, they also report that it is easy to meet new people.

The Facebook results reported here are consistent with (Lampe et al., 2007), which described how Facebook members use the site to manage relationships initiated offline. This includes maintaining contact with high school friends and getting to know new classmates better. Facebook subjects expressed a greater amount of trust, and reported more willingness to share identifying information. However, this did not translate into an increase in new online relationships. These results show that online relationships can develop in sites where perceived trust is low and protection of privacy is minimal.

Correlation analysis

Correlation analysis was conducted to examine the relationships among the constructs presented in the Privacy Trust model (Figure 1). Appendix 1 presents the results of this analysis. The dependent variables, information sharing and development of new relationships are presented in the rows. For each independent variable, results for Facebook and MySpace are presented separately, and also combined. The three independent variables are Internet Privacy Concern, Trust in the social networking site, and Trust in other members. The two measures related to trust in other members are listed separately because they did not load high enough.

Internet privacy concern relates to information sharing for only one item: instant messenger screen name. The negative correlation coefficients indicate the greater the level of privacy concern, the less likely that subjects will share their screen name. This is true for both social networking sites. This result emphasizes the importance of instant messenger as a personal communications channel for these subjects. With regard to development of new relationships within Facebook, internet privacy relates to the use of e-mail as a means of making contact with new friends (.248*).

Moving to the second independent variable, trust in the social networking site relates to sharing of home town location for MySpace. This coefficient is the second highest result (.401**). Trust in the site also is correlated with sharing of email address (for combined totals, .183*) and sharing cell phone number for Facebook (.258*).

Regarding the influence of trust in the site on the development of new relationships, remember that trust in Facebook was found to be significantly higher than the trust in MySpace (F ratio = 4.511, p = .036). For Facebook subjects, trust in the site relates to meeting face to face (.263*) as well as making contact via instant messenger (.328**). There are no significant correlations between trust in the site and development of new relationships for MySpace subjects. This suggests the existence of a mediating factor in MySpace that blunts the importance of trust with regard to developing new relationships.

For the third independent variable, trust in other members is captured through two measures. The measure of perception of whether others' profiles are exaggerated has only one significant result, sharing of real name (-.186*). Concern over being embarrassed by the posting of others has a much stronger influence in MySpace compared to Facebook. The highest result in the table is the coefficient for sharing relationship status (-.458**) for MySpace. The greater the concerns for embarrassment, the less likely subjects were to share their relationship status. This measure is also related to sharing email address for MySpace subjects (.328*), and for the combined totals (.256**). Concern for embarrassment is only related to the development of new relationships using email for MySpace members (.298*).

These correlations show surprising and confusing results. In general, the correlation coefficients are low. This makes it difficult to understand the role of privacy and trust within social networking sites. However, significant findings were found for each independent variable. The influence of trust in the site is more apparent in the behavior of Facebook subjects when it comes to development of new relationships, even though there is less trust in MySpace along with more reports of developing new relationships. Although the privacy scale has strong reliability, there is little evidence of influence of privacy concern on information sharing, with the exception of subjects' screen name.

LIMITATIONS

A limitation is that subjects were recruited in an ad hoc manner instead of random sampling. The small sample size has an impact on accurately measuring the effect and significance of correlations. Another limitation is that the survey is a self-report of behavior. Additional validation of the information could have been performed by using software to download profiles and do a comparison of data collected automatically to reported results.

Preliminary measures of trust were tested in this survey, but additional validation of the constructs is necessary. The survey instrument did not include any questions with respect to the subject's motivation in using these sites. It is possible that members of MySpace use the site specifically to meet new people. A member's motivation for use could mediate the influence of trust and privacy concern.

Another limitation is that no effort was made to determine if the personal information revealed by users in social networking sites was accurate. It is possible that many users give false information (especially in MySpace), which is significantly different than revealing real information. Giving false information could be significantly related with trust and privacy concerns.

CONCLUSIONS

Social networking sites are quite popular, and are beginning to attract the attention of academic researchers. Most of the studies conducted to date have focused on a single social networking site. Few studies have compared attitudes and behavior between two sites. The results of this comparison study were able to show interesting similarities and differences between the two sites.

Subjects from Facebook and MySpace expressed similar levels of concern regarding internet privacy. Facebook members were more trusting of the site and its members, and more willing to include identifying information in their profile. Yet MySpace members were more active in the development of new relationships.

These results show that the interaction of trust and privacy concern in social networking sites is not yet understood to a sufficient degree to allow accurate modeling of behavior and activity. The results of the study encourage further research in the effort to understand the development of relationships in the online social environment and the reasons for differences in behavior on different sites.

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Dwyer et.al.	Trust and Privacy: A Comparison of Facebook and MySpace

Appendix 1: Correlations between privacy, trust, and information sharing and development of new relationships within social networking sites.

Dependent variables Information shared: Photograph Real name Home town Email address	Internet Fbook Fook 0.139 0.125	Fbook MySpce B	ncern Both -0.091 -0.007 0.099 -0.068	Trust in Fbook -0.101 n/a 0.090 -0.015	Independent variables Trust in Social Networking Site Others exa -0.101	ndent voorking Both -0.085 0.101 0.235*	Others' exa Fbook N Fbook N 0.054 0.024	y profil agger at a long and a long agger at a	are Both -0.021 -0.115		ther memk Co embarr 0.142 n/a 0.144	ther members: Concer Concer embarrasse 0 1142 0.142 0.142 0.140 0.221
	Internet	Privacy Co	ncern	l rust in	Site	orking		profil	are		co embari	Concern I migle embarrassed by poor others
	Fbook	MySpce	Both	Fbook	MySpce	Both	Fbook	MySpce	Both		Fbook	
nation d:												
hotograph	-0.139	n/a	-0.091	-0.101	n/a	-0.085	-0.054	n/a	-0.021		0.142	
Real name	n/a	0.030	-0.007	n/a	0.014	0.101	n/a	-0.124	- 186*		n/a	
Home town	0.125	0.076	0.099	0.090	0.401**	0.235*	0.224	-0.026	0.115). 140	
Email address	-0.083	-0.024	-0.068	-0.015	0.148	0.183*	0.045	-0.071	-0.169).221	
Cell phone number	-0.164	0.032	-0.108	0.256*	-0.029	0.214	0.009	0.219	-0.042	0	0.007	0.083
Relationship status	0.110	-0.187	0.005	0.179	-0.034	0.055	-0.180	-0.114	-0.101	-0	-0.057	057 -0.458**
Sexual orientation	0.024	0.077	0.047	0.143	0.142	0.146	-0.036	0.152	0.027	0.	0.109	109 -0.066
Instant messenger screen name	-0.281*	-0.320*	-0.301**	0.096	0.111	0.153	-0.143	0.223	-0.073	-0	-0.052	.052 0.227
Development of										ſ		
Development of new relationships:												
Made contact using:												
Face to face	0.027	0.201	0.124	0.263*	0.002	0.077	0.131	-0.154	0.083		0.039	0.039 0.099
Instant messenger	-0.097	-0.123	-0.092	0.328**	0.163	0.186*	-0.075	-0.079	-0.006		0.127	0.127 0.195
Email	0.246*	0.004	0.128	0.230	0.014	0.086	0.213	-0.062	0.133		0.054	0.054 0.298*
Did not communicate outside of [SNS]	0.105	0.013	0.052	-0.097	-0.063	-0.036	-0.020	0.099	-0.035		-0.097	0.097 -0.130
Results calculated with Pearson's r	ited with Pears	on'sr n/a	a = no vari	= no variance in this measure		significant correlations	orrelation	ns are shaded		_	< .05 **	* p < .05 ** p < .01