

Software in Information Security

Indu¹ Dr. Kalyankar N.V.²

¹Research Scholar, CMJ University, Shillong, Meghalaya

²Principal, Science & Engineering, Yashvant College, Nanded, Maharashtra

Abstract – *Young people do not tend to use the term cyber bullying', and there are strong norms towards 'seeing the joke' where online behavior is concerned. The context of offline relationships is crucial in deciding whether certain actions online are acceptable or not - for instance, posting 'joke' or embarrassing photos or videos of friends or acquaintances online. The particular implications of online exposure are not significant for young people. They often do not distinguish between doing something embarrassing or harmful to someone and putting an image of this online. The authors conclude: First, young people conceptualise risk in terms of immediate, quantifiable consequences of behaviour. Young people's concepts of risk are largely formed through the stories in the news media and were negotiated in terms of the likelihood of a negative consequence, including being caught. So, for example, where activities such as plagiarism, activities equating to adult definitions of 'cyberbullying' and lax attitudes to privacy are concerned, young people feel relatively free from consequence, and therefore do not consider such activities to be 'risky'. Second, young people do not reflect on their online behaviour. This extends to young people's lack of awareness of the implications of online exposure of themselves and others, a limited concept of the audience who may be viewing their activities online, and the extent to which they are willing to take information accessed online at face value. Overall, these findings suggest that young people's technical expertise can often exceed their understanding. This is the gap which policy must bridge to ensure that young people are not needlessly putting themselves at risk online and instead can get the most out of what the internet has to offer.*

Key Words; *Instance, Posting, Embarrassing, Awareness, Implications.*

INTRODUCTION

The context of offline relationships is crucial in deciding whether certain actions online are acceptable or not - for instance, posting 'joke' or embarrassing photos or videos of friends or acquaintances online. The particular implications of online exposure are not significant for young people. They often do not distinguish between doing something embarrassing or harmful to someone and putting an image of this online. The authors conclude: First, young people conceptualise risk in terms of immediate, quantifiable consequences of behaviour. Young people's concepts of risk are largely formed through the stories in the news media and were negotiated in terms of the likelihood of a negative consequence, including being caught. So, for example, where activities such as plagiarism, activities equating to adult definitions of 'cyberbullying' and lax attitudes to privacy are concerned, young people feel relatively free from consequence, and therefore do not consider such activities to be 'risky'.

REVIEW OF LITERATURE

Margaret Brennan, 2006. This is described as a "preliminary" report and is based on a series of 16 "stakeholder workshops" held over 4 days. There were both Youth and Adult stakeholders. The observations and conclusions are in line with others. The Report ends, honestly enough: "At present, much of our knowledge on the topic of safeguarding children in social networks is anecdotal rather than empirically-based. Safeguarding interventions will only be effective if they are grounded in a real and evidenced knowledge base - this requires further research to fill existing knowledge gaps on risk factors and possible interventions in social networking environments."

Eurobarometer. : Towards a safer use of the Internet in the EU - a parent's perspective⁶⁹

This is work commissioned by the EU Safer Internet Program in late 2008. It was conducted by Gallup and covered the use of the Internet and mobile phones by

children. The survey scope was limited to parents as opposed to children. A total of 12, 750 parents from 27 EU countries was randomly selected. Most interviews were by telephone.

The quantitative aspects of the Report are given above. Below are some of the findings from the more qualitative work:

Concerns and awareness about online risks

The biggest risk in parents' eyes (65%) was that their child might see sexually or violently explicit images on the Internet: 45% were very worried.

In terms of inappropriate contact, parents were most worried that their child could become a victim of online grooming (60%); other concerns were that their child could be bullied online by other children (54%) or bullied by others over a mobile phone link (49%). Parents were the least worried that their child might reveal personal or private information when using the Internet: only a quarter said they were very worried and 21% were rather worried. Parents in France, Spain, Portugal, Greece and Cyprus worried the most that their child might see inappropriate content, make contact with someone intent on grooming or bullying, or reveal personal information. Parents in Denmark, Sweden and Slovakia had the least concern there.

Parents who did not use the Internet themselves, but who said that their child did use it, most frequently answered that they were very worried about the risks faced by their child when using the Internet and mobile phones.

Parents answering a question about their 6-10 yearold or their 11-14 year-old more frequently said they were very worried about the risks their child faced when using the Internet and mobile phones. Offering assistance to children in case of problems

Only a minority of the respondents said that when their child asked for their help with an Internet related problem, this was due to: contact online by a stranger (4%), harassment (4%) or bullying online (3%), or the existence of sexually or violently explicit images on the Internet (4%). Almost three out of 10 Dutch parents (28%) and a quarter of the parents in the UK (24%) said that, when their child asked for their help, this was because they had been contacted by a stranger, were bullied or harassed online or saw violently or sexually explicit images online.

Older children, who asked their parents for help, more often did so for any of the reasons listed above (e.g. 7% of the 15-17 year-olds asked their parents for help because

they were harassed online compared to 1% of the 6-10 year-olds).

Strategies for parental supervision when children use the Internet

Three-quarters of parents – with a child who accessed the Internet at home – said they always or very frequently talked with their son or daughter about what they had been doing online. A majority of the parents (61%) took care that they – always or very frequently – stayed nearby when their child used the Internet, while one-third said that they sat next to their child when they used the Internet. Parents in almost all Member States were the least likely to regularly check whether their child had a profile on a social networking site (30%) or the messages in their child's email or IM account (24%).

Parents in the UK and some southern European countries – Portugal, Italy and Spain – were more likely to regularly supervise their child when using the Internet (e.g. stay nearby or sit next to their child) and to check what their child had done online (e.g. check the history file or e-mail account).

MATERIAL AND METHOD

Parents in Lithuania and Estonia, on the other hand, were each time among the most likely to answer that they never supervised or checked their child's Internet-related activities. The 15-17 year-olds were subject to less parental supervision than the 11-14 year-olds and the 6-10 year-olds, but this reduction was more noticeable in the supervision of children using the Internet than for the monitoring of children's online activities (e.g. checking the history file or e-mail).

Half of the parents participating in this survey answered that they had installed filtering software on the computer that their child used at home.

Monitoring software was not as popular, but was still used by almost four out of 10 parents (37%). Parents in all of the EU27 Member States most often thought of the police when asked how they would report illegal or harmful content seen on the Internet – 92% gave this response. Four out of 10 parents (38%) would report such content to a hotline set up for this purpose and one-third mentioned non-profit or other associations. Parents who did not use the Internet were more likely not to know how they would report illegal or harmful content seen on the Internet. For example, almost one-fifth of the parents who did not use the Internet did not know they could report illegal content to a hotline set up for this purpose compared to 12% of the parents who did use the Internet.

Sources for information and advice about safer use of the Internet

Family and friends were the most popular source of information or advice for parents about monitoring and filtering tools and safe use of the Internet: 71% of parents had turned to a friend or family member to discuss Internet safety issues.

Four out of 10 parents had browsed the Internet and found information or advice about safer Internet on various websites, and a similar proportion (36%) Internet Crime Lit Review/Sommer/LSE/p 91 counted on Internet service providers (ISPs) to get such information.

Berkman: Enhancing Child Safety and Online Technologies - Internet Safety Technical Task Force

This is a 2008 US report commissioned by 50 attorneys general from the 50 states of the union. It produced a Literature Review of relevant research in the field of youth online safety in the United States, which documents what is known and what remains to be studied about the issue and a report from its Technology Advisory Board, reviewing the 40 technologies submitted to the Task Force. An interesting feature of the Report is its critique of research methodologies and the way in which statistics may be abused. "The methodology of a study is its most important quality. The size of a sample population matters less than how the population was sampled in relation to the questions being asked. The questions that qualitative studies can address differ from those that can be addressed quantitatively, but both are equally valid and important.

...Presenting statistical findings is difficult, because those who are unfamiliar with quantitative methodology may misinterpret the data and read more deeply into the claims than the data supports. For example, correlation is not the same as causation, and when two variables are correlated, the data cannot tell you whether one causes the other or whether an additional mediating variable that affects both is

involved. In presenting the findings of different studies, the Literature Review tries also to provide a roadmap for understanding what these studies mean and also includes some background" The study looks at "sexual solicitation and internet-initiated offline encounters", "online harassment" and "problematic content". Among the findings:

Bullying and harassment, most often by peers, are the most frequent threats that minors face, both online and offline.

o Much of the research based on law-enforcement cases involving Internet-related child exploitation predated the rise of social networks. This research found that cases typically involved post-pubescent youth who were aware that they were meeting an adult male for the purpose of engaging in sexual activity.

o Youth report sexual solicitation of minors by minors more frequently, but these incidents, too, are understudied

o The Internet increases the availability of harmful, problematic and illegal content, but does not always increase minors' exposure. Unwanted exposure to pornography does occur online, but those most likely to be exposed are those seeking it out, such as older male minors.

CONCLUSION

Minors are not equally at risk online. Those who are most at risk often engage in risky behaviour and have difficulties in other parts of their lives. The psychosocial makeup of and family dynamics surrounding particular minors are better predictors of risk than the use of specific media or technologies.

o Although much is known about these issues, many areas still require further research. For example, too little is known about the interplay among risks and the role that minors themselves play in contributing to unsafe environments.

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