

Chapter 90

Communication Privacy Management and Mobile Phone Use

Debra L. Worthington
Auburn University, USA

Margaret Fitch-Hauser
Auburn University, USA

ABSTRACT

The introduction of new technologies effects rapid social change and challenges social norms. A major challenge with the advent of mobile phones is how the technology tests traditional notions of personal privacy and interaction involvement, particularly in public settings. Communication privacy management (CPM) theory provides a means of explaining the tensions between mobile phone users and proximate others. In this article, components of communication privacy management theory are outlined and its application to mobile communication is discussed. Next, privacy issues associated with specific mobile technology are reviewed and cultural differences in mobile communication privacy needs are examined. In light of the limited research in this area, suggestions for future research are also presented.

INTRODUCTION AND DEFINITION OF KEY CONCEPTS

The International Telecommunication Union estimates that the number of in-use mobile phones exceeds the number of earth's population (Pramis, 2013). The social interactions resulting from the use of the six billion active cell phones have altered both public space and behavior (Katz, 2007; Ling, 2008), and a significant body of research suggests that mobile technology impacts our social networks and interactions (Banjo, Hu, & Sundar, 2008; Campbell, 2007, 2008; Geser, 2006; Inbar, Joost, Hemmert, Porat, & Tractinsky, 2014; Poutiainen, 2007).

Mobile phone use challenges traditional notions of personal privacy and interaction involvement. Communication privacy management addresses how individuals control and reveal private information (Petronio, 2007). At the heart of their social interactions is how mobile phone users balance obligations to

DOI: 10.4018/978-1-5225-8176-5.ch090

absent others (i.e., the caller) against their responsibilities to proximate or co-present others (i.e., people around them), while at the same time managing privacy concerns of all parties (Banjo et al., 2008).

The theory of communication privacy management was first introduced by Sandra Petronio (1991). A Professor of Communication Studies at Indiana University-Purdue University Indianapolis, she has authored and co-authored numerous books and articles on CPM. More recent publications provide summaries of the theory (Petronio, 2008; Serewicz & Petronio, 2007), outline the development of CPM (2004), expand on the role of confidants (Petronio & Reiersen, 2009) and secrecy (Petronio, 2000), and apply CPM to a variety of contexts (see, for example, Duggan & Petronio, 2009; Greene, Derlega, Yep, & Petronio, 2003).

Rich Ling, Ph.D., of IT University of Copenhagen, is a leading researcher in the area of the social consequences of mobile communication. He has authored and co-authored multiple books and articles in this area, including *New Tech, New Ties: How Mobile Communication is Reshaping Social Cohesion* (2010), *Mobile Phones and Mobile Communication (Polity)* (with Jonathan Donner) (2009), and *Taken for Grantedness: The Embedding of Mobile Communication into Society* (2012). A frequent co-author with Ling, Dr. Scott W. Campbell of the University of Michigan, has also made significant contributions to our understanding of normative mobile phone behaviors (e.g., *Mobile Communication: Bringing us Together and Tearing us Apart*, 2011; *The Reconstruction of Space and Time: Mobile Communication Practices*, 2009). His research in mobile telephony emphasizes the social implications of the medium. To date, only one study has applied the principles of CPM to mobile telephony (see Worthington, Fitch-Hauser, Valikoski, Imhof, & Kim, 2011).

In the following pages, we define privacy, outline components of communication privacy management theory, examine its application to mobile communication, and outline areas of future research.

SOCIAL NORMS AND MANAGING PRIVACY

The introduction of new technologies effects rapid social change and challenges social norms. Rapid change can result in differing expectations of what is appropriate behavior when using the technology. As rules that guide behavior, social norms provide a framework for individuals to assess which behaviors are acceptable and which are not (McLaughlin & Vitak, 2011). Social norms vary by gender, age, relationships and culture (Axelsson, 2010; Hall, Baym, & Miltner, 2014; Johar, 2005), and may or may not be followed at any given moment (Kallgren, Reno, & Cialdini, 2000). Despite this variability, social norms are the ties that bind social and relational order.

Privacy is a multi-faceted concept. Both a dynamic and dialectic process, the notion of privacy suggests that individuals regulate boundaries of disclosure, personal identity, and temporality (Palen & Dourish, 2003). More specifically, it refers to our ability to manage when, how, and the extent to which our personal information is revealed to others (Westin, 1967). Mobile phone norms have reached the point where particular behaviors can be seen as violations of others' rights, as insensitive, or as abusive (Ling & McEwen, 2010).

When discussing the intersection of technology and privacy, people often focus on technical issues associated with technology use (see, for example, Boyles, Smith, & Madden, 2012). In reality, individuals focus greater attention on managing privacy in their interpersonal lives. Only recently has attention been paid to matters of privacy and mobile communication.

13 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

www.igi-global.com/chapter/communication-privacy-management-and-mobile-phone-use/224659

Related Content

Mobile Cloud Resource Management

Konstantinos Katzis (2015). *Resource Management of Mobile Cloud Computing Networks and Environments* (pp. 69-96).

www.irma-international.org/chapter/mobile-cloud-resource-management/125962

Advanced Data Storage Security System for Public Cloud

Jitendra Kumar, Mohammed Ammar, Shah Abhay Kantilal and Vaishali R. Thakare (2020). *International Journal of Fog Computing* (pp. 21-30).

www.irma-international.org/article/advanced-data-storage-security-system-for-public-cloud/266474

Edge Computing: A Review on Computation Offloading and Light Weight Virtualization for IoT Framework

Minal Parimalbhai Patel and Sanjay Chaudhary (2020). *International Journal of Fog Computing* (pp. 64-74).

www.irma-international.org/article/edge-computing/245710

A Holistic View on Blockchain and Its Issues

Mohd Azeem Faizi Noor, Saba Khanum, Taushif Anwar and Manzoor Ansari (2021). *Blockchain Applications in IoT Security* (pp. 21-44).

www.irma-international.org/chapter/a-holistic-view-on-blockchain-and-its-issues/261878

Public Services and Evolution of Smart Cities: The Public Administration at the Service of the Citizenship

Magdalena Suárez (2020). *Social, Legal, and Ethical Implications of IoT, Cloud, and Edge Computing Technologies* (pp. 277-298).

www.irma-international.org/chapter/public-services-and-evolution-of-smart-cities/256269