

PRIVACY IN THE DIGITAL AGE: A REVIEW OF INFORMATION PRIVACY RESEARCH IN INFORMATION SYSTEMS

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Appendix A

Literature Search Procedures and Results

After searching for the keywords “information privacy” in ABI/Informs focusing on scholarly articles, we obtained a listing of 340 papers. We first eliminated papers that were anonymous, table of contents, interviews with experts, or short opinion pieces. We also removed articles not related to our focus on information privacy research in IS literature. A total of 218 articles were removed as explained in Table A1.

Table A1. Papers Removed from Initial Screening			
	Articles in Category	Quantity Removed	Total (balance)
Total list in ABI/Informs			340
Removed anonymous, table of contents, interviews with experts and opinion pieces	(Anonymous 2005a; Anonymous 2005b; Anonymous 2005c; Anonymous 2005d; Anonymous 2005e; Anonymous 2005f; Anonymous 2005g; Anonymous 2005h; Anonymous 2006a; Anonymous 2006b; Anonymous 2006c; Anonymous 2006d; Anonymous 2006e; Anonymous 2006f; Anonymous 2006g; Anonymous 2007a; Anonymous 2007b; Anonymous 2007c; Anonymous 2007d; Anonymous 2007e; Anonymous 2007f; Anonymous 2007g; Anonymous 2007h; Anonymous 2008a; Anonymous 2008b; Anonymous 2008c; Anonymous 2008d; Anonymous 2008e; Anonymous 2008f; Anonymous 2008g; Anonymous 2009a; Anonymous 2009b; Anonymous 2009c; Anonymous 2009d; Anonymous 2009e; Anonymous 2009f; Anonymous 2009g; Anonymous 2009h; Anonymous 2009i; Anonymous 2010; Basu 2007a; Basu 2007b; Basu 2007e; Basu 2007f; Basu 2007g; Basu 2008b; Basu 2009a; Basu 2009b; Basu 2009c; Basu 2009d; Basu and Chenoweth 2006a; Basu 2005a; Basu 2005b; Basu 2005c; Basu 2006b; Chambers 2008; Chenoweth 2006; Chenoweth 2005a; Chenoweth 2005b; Chenoweth 2005d; Chenoweth 2005e; Finch 2003; Lim 2008; Melby 2008; Penn 2006; Reid 2005; Reid 2006b; Sánchez 2005; Tai and Ayyagari 2009)	69	271
Removed articles related to legal reviews or discussion of legal and ethical aspects of information privacy. [†]	(Anonymous 2009e; Anonymous 2009j; Auerbach 1983; Bamberger 2010; Bellia 2008; Benjamin 1991; Benoit and Lovoy 2005; Cain 2002; Casey 2007; Ciocchetti 2007; Fedorowicz and Ray 2004; George 1999; Gindin 1997; Glenn 2000; Graham 1987; Greenberg et al. 2004; Hayes 2006; Himma 2007a; Himma 2007b; Kang 1998; Kelly and Unsal 2002; King 2003; Lally 1996; Lipton 2010; Litman 2000; Luck et al. 2006; Mossholder et al. 1991; Nehf 2003; O'Brien 1979; Ohm 2010; Oliver 2002; Petersen 1995; Post and Kagan 2006; Prosch 2008; Pyman et al. 2008; Rauhofer 2008; Regan 2009; Sachs 2009; Samuelson 2000; Schwartz 2000; Solove 2001; Swartz 2007; Usmani 2003; Volokh 2000a; Warren 2002; Weinberg 2000; West 2010; Winn 2001)	48	223
Removed articles discussing information privacy in the context of marketing	(Campbell 1997; Chellappa and Shivendu 2006; Dobosz et al. 2006; Dolnicar and Jordaan 2006; Dolnicar and Jordaan 2007; Dubelaar et al. 2003; Eastlick et al. 2006; Laric and Pitta 2009; Peltier et al. 2009; Peltier et al. 2010; Prabhaker 2000; Rohm and Milne 2004; Sachs 2009; Sheehan 2005; Smith 2001; Tsarenko and Tojib 2009; Zorotheos and Kafeza 2009)	17	206
Removed articles focused on security but published in journals with privacy in the title of the journal (e.g. Journal of Information Systems Security and privacy)	(Adams and Dimitriou 2008; Basu 2006a; Basu 2007c; Basu 2007d; Basu 2008a; Basu 2005d; Basu and Chenoweth 2006b; Bhaskar 2005; Brehm and Gómez 2005; Campbell 1997; Cannoy et al. 2006; Carr 2009; Cavusoglu 2010; Chan et al. 2005a; Changchit 2007a; Changchit 2007b; Changchit 2007c; Changchit 2008b; Changchit 2009a; Changchit 2009c; Chellappa and Shivendu 2006; Cheng and Wong 2006; Chenoweth 2007; Chenoweth 2005c; Chenoweth 2005f; Chenoweth 2005g; Conklin and McLeod 2009; Dantu and Cangussu 2007; Dewan and Chen 2005; Dobosz et al. 2006; Dolnicar and Jordaan 2006; Dolnicar and Jordaan 2007; Dubelaar et al. 2003; Eastlick et al. 2006; Elson and LeClerc 2006; Gilbert et al. 2008; Gómez and Lichtenberg 2007; Gómez and Paxmann 2006; Hazari et al. 2008; Johnson 2009; Kim et al. 2008; Klaus 2008; Korotka et al. 2005; Kruger et al. 2008; Kumar et al. 2007; Malliga and Tamilarasi 2008; Marks and Hale 2006; Medlin et al. 2008; Medlin and Cazier 2005; Medlin and Romaniello 2007; Mills et al. 2009; Mollick 2008; Mollick 2006; Mooradian 2008; Nilakanta and Scheibe 2005; Peltier et al. 2009; Post and Kagan 2006; Prabhaker 2000; Reid 2006a; Rohm and Milne 2004; Ross et al. 2009; Sachs 2009; Sheehan 2005; Sindre and Opdahl 2008; Smith 2001; Stevenson et al. 1995; Stewart et al. 2006; Stippich and Stippich 2005; Swart et al. 2005; Tang et al. 2009; Tsarenko and Tojib 2009; Wang et al. 2007; Wei and Ozok 2009; White and Rea 2007; Wong et al. 2006; Yin 2006; Young 2009; Young and Zhang 2007; Zhang and Dayarathn 2010; Zhao and Xue 2009; Zorotheos and Kafeza 2009)	81	125
Removed papers listed twice in the search results	(Salton 1980; Smith 1993; Woodman et al. 1982)	3	122

[†] We removed articles presenting legal reviews and commentaries because our focus was on information privacy research in information systems, and on papers we could code for theoretical foundations, sample characteristics, and level of analysis. Most legal articles provide legal discussions and commentaries on laws related to information privacy.

After this preliminary screening of the article listings, we downloaded the 122 remaining articles and jointly coded them for topic area, key constructs, theoretical contributions, and methodology. The dependent and independent variable analysis, together with a review of the context and implications of the study, allowed us to identify general research areas that make use of or explain the information privacy construct. Appendix B describes the details of the coding, in particular with respect to the topic areas. When further exploring the papers, several papers did not seem to contribute specifically to the IS literature and/or information privacy literature, and were removed from further coding. Specific details on these papers are provided in Table A2.

Table A2. In-Depth Coding Stage: Additional Papers Removed from Coding Analysis			
Reason	Papers	Count	Total (n = 122)
Book reviews not previously identified	(Chenoweth 2005f; Cutshall 2007; Fugate 2008; Weaver 2010)	4	118
Editorial prefaces not previously identified	(Basu 2005e; Changchit 2007c ; Changchit 2008a; Changchit 2008c; Changchit 2009b; Changchit 2010; Korotka et al. 2005)	7	111
Papers focused on security with only side mention of privacy	(Laric et al. 2009; Lunsford et al. 2004; Mooradian 2008; Roberts 2005; Stewart et al. 2006)	4	107
Papers listed twice under different naming or identical in different journals (removed one copy from list)	(Auerbach 1985; Brown 2007; Harkiolakis 2007; Jafar and Abdullat 2009; Tamimi and Sebastianelli 2007; Xiaoni et al. 2007)	7	100
Panel discussion summarized from conference	(Chan et al. 2005b)	1	99
Commentaries or “how to” papers (discussed how to do steps for security or privacy)	(Auerbach 1985; Collier 1995; DeMarco 2006; Geppert 1999; Himma 2007a; Jajodia 1996; Johnston and Warkentin 2008; Kelly and Unsal 2002; Laurent 2006; Lautsch 1985; Levine 2003; Mooradian 2009; Pujals 1993; Pyman et al. 2008; Rudraswamy and Vance 2001; Salton 1980; Volokh 2000b)	17	82
Opinion piece not previously identified – building trust in healthcare	(Mancilla and Biedermann 2009)	1	81
Papers or studies not on information privacy research: studies of supply chain with side mention of information privacy	(Chu and Leon 2009; Hennet 2009)	2	79
Papers or studies not on information privacy research: study of general healthcare privacy	(Laric et al. 2009)	1	78
Papers or studies not on information privacy research: studies or discussions of chief privacy officers	(Cohen 2001; Kayworth et al. 2005)	2	76
Papers or studies not on information privacy research: various	(Bhaskar and Zhang 2007; Brown 2007; Iannacci 2009; Szewczak and Snodgrass 2009; Wong et al. 2006)	5	71
Paper not discussing information privacy research: takes English language decomposition look at privacy	(Harkiolakis 2007)	1	70

The coding of the remaining 70 papers identified through ABI/Informs on information privacy is summarized in Appendices C and D. The appendices also include the coding of the additional papers identified through the second stage of our literature review, as described below.

For the second stage of literature review, we identified over 100 additional papers through further investigation of references from the papers identified in the first stage. Our initial screening (as per above criteria) resulted in 72 additional papers being coded. In total, we coded 142 journal articles.

The final stage of the literature review involved searching conference proceedings databases to identify papers discussing information privacy to (1) verify if trends identified in the coding of the journal articles were also found in conference proceedings and (2) identify any topic areas or trends emerging from conference papers that were not identified in the coding of journal articles. We investigated 284 articles (50 each from the IEEE conference proceedings database and the ACM Digital Library proceedings database, and 184 from the ICIS proceedings database).

The papers were identified with the search engines of the database mentioned above using the relevance feature for ACM and IEEE, and a full text search for the ICIS database (which does not have a relevance feature). Ultimately 38 of the ICIS papers were coded after determining whether or not each paper actually dealt with information privacy. Details of the procedures, articles, and coding are provided in online Appendix E.

Appendix B

Coding Procedures and Details

We coded a large number of journal articles and conference papers for topic area, theoretical contributions, methodology, and levels of analysis. We started by jointly coding a large number of articles (the first 70 articles). We then tested our coding by separately coding 20 journal articles. We computed Cohen's kappa for those papers. Kappa indicates the strength of agreement between two raters as the "proportion of agreement between two groups adjusted for agreement attributable to chance" (Reynolds 1977, p. 59). Levels of agreement above zero indicate some agreement not attributable to chance. Therefore, using Cohen's Kappa as a measure of agreement instead of simple correlation provides the researcher with greater confidence in the ratings obtained since it offers agreement beyond what could be due to chance. The raters achieved an 80 percent inter-rater reliability on levels of analysis and theoretical contributions, and a 67 percent inter-rater reliability on research topics, for an overall inter-rater reliability of 75 percent. Given that Cohen Kappa's above 0.60 are considered to show substantial agreement (Landis and Koch 1977), one of the authors coded the remaining articles, requesting feedback on difficult to classify articles. Below we describe briefly the categories we used for coding.

Topic Area

In the initial coding, we identified a very large number of topic areas. They are presented in Table B1. After discussing each topic, we classified similar topics into larger categories. For example, papers discussing e-commerce, e-business, e-government, or web services were categorized as e-business impacts. We reviewed the classification scheme several times before, during, and after our initial coding.

Theoretical Contributions

We adapted Gregor's (2006) proposed framework for classifying theories as follows:

- Analyzing: describing the state of information privacy or the need for information privacy research.
- Explaining: explaining what is occurring but not providing testable predictions.
- Predicting: providing testable predictions without well-developed causal relationships.
- Explaining and Predicting: explaining what is occurring and providing testable predictions with causal explanations.
- Design and Action: designing tools for providing information privacy or a framework to evaluate such tools.

Sampling Characteristics

We searched the articles for the origin of samples either specifically identified or implied (e.g., students from an eastern U.S. university). Most studies clearly identified students versus nonstudent data. Origin of sample was not always available.

Levels of Analysis

For coding levels of analysis, we used Smith et al.'s (2011) proposed levels of individual, group, organizational, and societal privacy. We based our classification on the measurement and analyses conducted.

Table B1. Topic Areas in Information Privacy Research

<p>Information Privacy Concerns</p> <ul style="list-style-type: none"> • CFIP • Collection • Concern for Privacy • Errors • General Concern for Privacy • GIPC • Government Intrusion Concerns • Internet Privacy Concerns • Internet User Information Privacy Concern • IUIPC • Loss Of Control • Perceived Internet Privacy Risk • Perceived Privacy Concerns • Perceived Risks • Perceived Vulnerability • Perception of Privacy Concerns • Privacy Problems • Risk Beliefs • Risk Perception • Secondary Use • Surveillance • Unauthorized Access • Unauthorized Secondary Use of Information 	<p>Information Privacy Attitudes</p> <ul style="list-style-type: none"> • Attitude Toward Internet Purchasing • Attitude Toward Privacy • Attitude Toward Privacy • Attitudes • Attitudes Toward Secondary Information Use • Beliefs • Confidence • Desire for Privacy • Efficacy • Familiarity • Loneliness • Perceived Ability to Control • Perceived Behavioral Control • Perceived Need for Government Surveillance • Privacy Active • Privacy Aware • Privacy Suspicious • Regulatory Preferences • Values • Willingness to Be Profiled • Willingness to Provide Information
<p>E-Business Impacts Of Information Privacy</p> <ul style="list-style-type: none"> • Attitude Toward Internet Purchasing • Behavioral Intention • E-Commerce Use • Internet Purchasing • Online Purchasing Behavior • Online Subscription and Purchasing • Purchasing Behavior • Willingness to Transact 	<p>Trust And Information Privacy</p> <ul style="list-style-type: none"> • Institutional Trust • Internet Trust • Internet Trustworthiness Beliefs • Propensity to Trust • Trust • Trust Beliefs • Trust of Privacy Notices
<p>Information Privacy Technologies and Tools</p> <ul style="list-style-type: none"> • Design Frameworks • Software Descriptions • Taxonomies for Design • Tool Evaluations 	<p>Culture and Information Privacy</p> <ul style="list-style-type: none"> • Country of Origin • Cultural Values • Cultural Values • German Environmental View • Japanese Perspective

Information Privacy Practices	Other
<ul style="list-style-type: none"> • Amount Spent to Protect Privacy • Customer Service • Familiarity with Privacy Statements • Government Involvement in Regulation • Information Released • Limited Use of Internet • Privacy Infringement • Privacy Policies • Privacy Policy Statements • Protection Behaviors • Ratings/Testimonials • Read Online Privacy Notices • Regulatory Approaches • Safe Internet Browsing • Self-Disclosing Behavior • Validity of Privacy Policies 	<ul style="list-style-type: none"> • Communicative Action • Computer Anxiety • Contextual Privacy • Corporate Privacy Environment • Cost Per Unit of Information • Desktop Videoconferencing Use • Direct Marketing Frequency • Discursive Action • Expertise • Imbalances of Power And Control • Information Deprived Because of Privacy • Instrumental Action • Internet Experience • Internet Literacy • Intrusion/Disruption of Legitimate Activity • Legitimacy of Motives for Info Request • Media Choice • Normative Structure • Perceived Comprehension • Perception of Customer Service • Perception on Quality of Products • Personal Internet Interest • Price Charged Per Unit of Privacy • Price Received for Providing Privacy • Privacy Protection Experience • Readability of Privacy Policies • Social Awareness • Social Citizenship • Social Context • Strategic Action • Subjective Norms • Types of Information • Visibility of a Mediating Technology • Website Preference

Appendix C

Coded Articles: Contributions to Theory Classification

Articles	Types of Theoretical Contributions				
	Analyzing	Explaining	Predicting	Explaining & Predicting	Design & Action
Total (n = 142)	35	23	5	72	7
Adams and Katos 2007	X				
Agranoff 1991	X				
Al Abri et al. 2009				X	
Alge et al. 2006				X	
Allen et al. 2007		X			
Angst and Agarwal 2009				X	
Awad and Krishnan 2006				X	
Bélanger and Hiller 2006	X				
Bélanger et al. 2002				X	
Bellman et al. 2004				X	
Benassi 1999	X				
Bensen et al. 2006	X				
Brown and Muchira 2004				X	
Campbell 1997		X			
Cao and Everard 2008				X	
Carter and McBride 2010	X				
Chai et al. 2009				X	
Chakraborty and Sharma 2005			X		
Chellappa and Shivendu 2006			X		
Chellappa and Sin 2005				X	
Chen and Rea Jr. 2004				X	
Cho 2010				X	
Clark et al. 2009	X				
Clarke et al. 2002					X
Cockcroft 2006			X		
Conger 2009	X				
Coursaris et al. 2003		X			
Cranor 1999	X				
Cranor 2006	X				
Cranor et al. 2006					X
Crazier et al. 2008				X	
Cullen 2009	X				
Culnan 1993				X	
Culnan 2000				X	
Culnan and Armstrong 1999				X	
Desai et al. 2003	X				
Dillon et al. 2008		X			

Articles	Types of Theoretical Contributions				
	Analyzing	Explaining	Predicting	Explaining & Predicting	Design & Action
Dinev and Hart 2004				X	
Dinev and Hart 2005				X	
Dinev and Hart 2006				X	
Dinev et al. 2006a				X	
Dinev et al. 2006b				X	
Dobosz et al. 2006	X				
Drennan et al. 2006				X	
Dubelaar et al. 2003				X	
Earp and Payton 2006		X			
Earp et al. 2005		X			
Eastlick et al. 2006				X	
Faja and Trimi 2008				X	
Feng-Yang et al. 2007				X	
Friedman and Reed 2007	X				
George 2004				X	
Gray and Christiansen 2009	X				
Greenaway and Chan 2005	X				
Hann et al. 2008		X			
Henderson and Snyder 1999	X				
Hine and Eve 1998				X	
Hoadley et al. 2010				X	
Hoffman et al. 1999				X	
Hooper and Vos 2009				X	
Hsu 2006				X	
Hsu and Kuo 2003				X	
Hui et al. 2006				X	
Hui et al. 2007				X	
Jafar and Abdullat 2009		X			
Katos and Adams 2005	X				
Khalfan and Alshawaf 2004		X			
Kim and Lee 2009			X		
Korzaan and Boswell 2008				X	
Kudo et al. 2007					X
Kuo et al. 2007				X	
Laudon 1996	X				
Li et al. 2008				X	
Lin 2005				X	
Lin and Wu 2008				X	
Liu and Arnett 2002		X			
Liu et al. 2005				X	
Malhotra et al. 2004				X	
McGinity 2000	X				
Meinert et al. 2006				X	

Articles	Types of Theoretical Contributions				
	Analyzing	Explaining	Predicting	Explaining & Predicting	Design & Action
Milberg et al. 1995				X	
Milberg et al. 2000				X	
Milne and Culnan 2002		X			
Milne and Culnan 2004				X	
Milne and Gordon 1993		X			
Milne et al. 2004				X	
Milne et al. 2006				X	
Miyazaki and Fernandez 2000	X				
Miyazaki and Fernandez 2001				X	
Miyazaki and Krishnamurthy 2002		X			
Mizutani et al. 2004	X				
Mollick 2009				X	
Moore 2005				X	
Moore and Dhillon 2003	X				
Nabil and Rose 2007				X	
Nilakanta and Scheibe 2005					X
Norberg and Horne 2007				X	
Norberg et al. 2007				X	
Nowak and Phelps 1999		X			
Park 2008				X	
Pavlou et al. 2007				X	
Peslak 2005	X				
Peslak 2006	X				
Pollach 2007		X			
Pramatari and Theotokis 2009				X	
Rajavel and Karuppuswamy 2008			X		
Razzouk et al. 2008		X			
Reagle and Cranor 1999	X				
Resnick and Montania 2003				X	
Rindfleisch 1997	X				
Robbin and Koball 2001				X	
Rohm and Milne 2004				X	
Rose 2006				X	
Ryker et al. 2002	X				
Schwaig et al. 2005				X	
Schwaig et al. 2006	X				
Shapiro and Baker 2001	X				
Sheehan 2005		X			
Sheldon and Strader 2002	X				
Smith 1993		X			
Smith 2004		X			
Smith et al. 1996				X	
Son and Kim 2008				X	

Articles	Types of Theoretical Contributions				
	Analyzing	Explaining	Predicting	Explaining & Predicting	Design & Action
Stewart and Segars 2002				X	
Storey et al. 2009				X	
Thiesse 2007				X	
Udo 2001		X			
Van Slyke et al. 2006				X	
Venter et al. 2004					X
Volokh 2000b	X				
Warkentin and Johnston 2006					X
Webster 1998		X			
Weiss 2009	X				
Woodman et al. 1982		X			
Xiaoni et al. 2007				X	
Xu 2009	X				
Xu 2010				X	
Xu and Gupta 2009				X	
Xu et al. 2010				X	
Yang and Chiu 2002		X			
Zhang et al. 2007	X				
Zuo and O'Keefe 2007					X

Appendix D

Coded Articles: Topic Areas and Levels of Analysis

Author	Sample Origin	Level of Analysis				Research Topic						
		Individual	Group	Organization	Societal	Information Privacy Concern	E-Business Impacts	Attitudes	Practices	Tools	Others	
Adams and Katos 2007	None			*					*			Security, audits
Agranoff 1991	None (context USA)			*					*			Privacy codes
Al Abri et al. 2009	420 Omani employees and citizens	*				*	*					
Alge et al. 2006	Consumers: 613 USA	*				*	*					Surveillance
Allen et al. 2007	Employees: 154 USA	*						*				Workplace surveillance, privacy boundaries
Angst and Agarwal 2009	366 citizens from USA (unclear)	*				*						Health information
Awad and Krishnan 2006	Internet users: USA (assumed)	*				*			*			Information transparency, willing to be profiled
Bélanger et al. 2002	Students: 140 USA	*							*			Security, seals
Bélanger and Hiller 2006	None (context USA)	*					*		*			Government, policy
Bellman et al. 2004	Internet users: 534 Worldwide				*	*						Culture
Benassi 1999	None (context USA)			*					*			Seals, Trust
Bensen et al. 2006	None (context China)				*				*	*		Politics
Brown and Muchira 2004	Students: 186 Australia	*				*	*					
Campbell 1997	Canada	*						*				
Cao and Everard 2008	Students: 161 China	*						*				Culture, instant messaging
Carter and McBride 2010	n/a conceptual	*				*						
Chai et al. 2009	285 pre-teens and early teens	*						*	*			
Chakraborty and Sharma 2005	n/a (simulation)	*										
Chellappa and Shivendu 2006	n/a (modeling)	*		*			*					Personalization
Chellappa and Sin 2005	Online Consumers: 243 USA	*				*	*					Personalization
Chen and Rea Jr. 2004	Students: 92 USA	*							*			Privacy control
Cho 2010	836 home users in Singapore	*				*	*		*	*		

Author	Sample Origin	Level of Analysis				Research Topic						
		Individual	Group	Organization	Societal	Information Privacy Concern	E-Business Impacts	Attitudes	Practices	Tools	Others	
Clark et al. 2009	n/a (conceptual)			*					*	*	Privacy governance for KMS design	
Clarke et al. 2002	None	*								*		
Cockcroft 2006	Students: 67 Australia				*	*						
Conger 2009	n/a (conceptual)	*		*		*						
Coursaris et al. 2003	None (context Canada)	*				*					Wireless privacy	
Cranor 1999	None	*				*					Security	
Cranor 2006	None	*				*					Security	
Cranor et al. 2006	None	*				*				*	P3P, Privacy Bird	
Crazier et al. 2008	320 students and consumers from USA	*				*				*	Risk, RFID	
Cullen 2009	38 New Zealand & 34 Japan citizens	*				*			*		Culture, government	
Culnan 1993	Students: 126 USA	*				*			*		Point of sales, control	
Culnan 2000	Websites: 361 USA			*		*			*		Self-regulation	
Culnan and Armstrong 1999	Adults: 1000 USA	*		*		*			*		Procedural fairness, privacy calculus, FIP, trust	
Desai et al. 2003	None (context Internet companies)			*		*			*			
Dillon et al. 2008	Consumers: 1085 USA	*				*			*		Workplace	
Dinev and Hart 2004	Students and Employees: 369 USA	*				*			*		Control, vulnerability	
Dinev and Hart 2005	Internet Users: 422 USA	*				*			*			
Dinev and Hart 2006	Students and Employees: 369 USA	*				*			*		Risk, privacy calculus, trust	
Dinev et al. 2006a	Students and Employees: 899 Italy vs. 422 USA	*				*			*		Culture, trust	
Dinev et al. 2006b	Students and Employees: 899 Italy vs. 422 USA	*			*	*			*		Culture, surveillance	
Dobosz et al. 2006	None			*		*			*		Marketing	
Drennan et al. 2006	Students: 69 Australia	*				*			*		Risk	
Dubelaar et al. 2003	Students: 181 (context unknown)	*				*			*			
Earp and Payton 2006	Professionals: 294 USA	*				*			*		Privacy orientation, security, policy	

Author	Sample Origin	Level of Analysis				Research Topic						
		Individual	Group	Organization	Societal	Information Privacy Concern	E-Business Impacts	Attitudes	Practices	Tools	Others	
Earp et al. 2005	Internet Users: 827 USA	*		*					*		Values	
Eastlick et al. 2006	Internet Users: 477 USA	*				*			*		Marketing, trust	
Faja and Trimi 2008	Unknown	*				*			*		Gender differences	
Feng-Yang et al. 2007	168 Taiwanese employees	*							*		Gender differences	
Friedman and Reed 2007	None (context USA)	*		*					*		Surveillance, email	
George 2004	Students: 193 USA	*							*		Control, trust	
Greenaway and Chan 2005	None	*		*					*			
Gray and Christiansen 2009	5 USA privacy experts	*									Teen online privacy protection	
Hann et al. 2008	None	*							*			
Henderson and Snyder 1999	None (context worldwide)	*		*					*			
Hine and Eve 1998	Consumers: 26 UK	*							*			Situated privacy
Hoadley et al. 2010	172 students from USA	*				*					Locus of control	
Hoffman et al. 1999	Internet Users: 15,569 Worldwide	*							*	*		
Hooper and Vos 2009	200 New Zealand companies			*					*			
Hsu 2006	Students: 400 China vs. USA vs. Netherlands vs. Taiwan				*				*			
Hsu and Kuo 2003	Employees: 186 Taiwan	*							*			
Hui et al. 2006	Students: 331 Singapore (?)	*							*		Disclosure willingness	
Hui et al. 2007	Students: 109 Singapore	*							*		Disclosure willingness, seals	
Jafar and Abdullat 2009	Privacy statements of four companies			*					*			
Katos and Adams 2005	None			*					*		Wireless, security	
Khalfan and Alshawaf 2004	Professionals from Omani banks: 8 interviewed & 28 surveyed.			*					*			
Kim and Lee 2009	n/a simulation	*		*					*		Personalization	
Korzaan and Boswell 2008	Students: 230 USA	*				*			*		Personality traits	
Kudo et al. 2007	None (context Japan)			*					*		IBM Japan	
Kuo et al. 2007	Managers: 168 Taiwan	*				*			*		Gender differences, privacy protection	

Author	Sample Origin	Level of Analysis				Research Topic					
		Individual	Group	Organization	Societal	Information Privacy Concern	E-Business Impacts	Attitudes	Practices	Tools	Others
Laudon 1996	n/a (conceptual)	*			*				*		National information market
Li et al. 2008	154 USA students	*				*		*			
Lin 2005	Consumers: 595 USA, China and Taiwan	*			*	*					
Lin and Wu 2008	Students: 511 Taiwan	*				*		*			Knowledge, trust, procedural fairness
Liu and Arnett 2002	Global 500			*				*			
Liu et al. 2005	212 students in USA	*					*				Trust
Malhotra et al. 2004	Internet Users: 742 USA	*				*					
McGinity 2000	None	*						*			
Meinert et al. 2006	Students: 261 USA	*				*		*			Disclosure willingness
Milberg et al. 1995	Professionals: 900 Worldwide	*			*	*					Culture, values
Milberg et al. 2000	Professionals: 595 Worldwide	*			*	*					Culture
Milne and Culnan 2002	223 to 286 USA websites	*		*			*				
Milne and Culnan 2004	Adults: 2468 USA	*			*	*		*			Trust
Milne and Gordon 1993	Adults: 175 USA	*			*	*		*			
Milne et al. 2004	2468 consumers: 300 students; 40 consumers All USA	*						*			Identity theft
Milne et al. 2006	Websites: 312 USA	*		*				*			Readability of policies
Mollick 2009	75 USA students	*						*			
Miyazaki and Fernandez 2000	Websites: 381 USA	*		*				*			Security, risk
Miyazaki and Fernandez 2001	Adults: 160 USA	*					*				Risk, knowledge
Miyazaki and Krishnamurthy 2002	Websites: 60 AND students: 204 USA	*		*				*			Compliance, seals
Mizutani et al. 2004	None (context Japan)	*			*			*			Culture, sense of privacy
Moore and Dhillon 2003	None	*		*			*	*			Seals, trust
Moore 2005	Students: 143 USA	*						*	*		Seals, trust
Nabil and Rose 2007	422 consumers worldwide	*				*		*			Gender differences
Niliakanta and Scheibe 2005	None	*		*				*	*		Digital persona, trust
Norberg and Home 2007	None	*						*	*		Attribution

		Level of Analysis				Research Topic					
Author	Sample Origin	Individual	Group	Organization	Societal	Information Privacy Concern	E-Business Impacts	Attitudes	Practices	Tools	Others
Norberg et al. 2007	Students: 88 USA	*							*		Privacy paradox
Nowak and Phelps 1999	None (context USA)	*		*					*		
Park 2008	127 USA and 198 Korean student comparison	*						*			Culture
Pavlou et al. 2007	531 Internet consumers (origin unknown)	*				*					Security, principal agency, information asymmetry
Peslak 2005	Websites: 50 USA			*					*		FIP, self-regulation
Peslak 2006	Websites: 100 Worldwide			*	*				*		FIP, compliance
Pollach 2007	Websites: 50 Fortune 50			*			*		*		Trust
Pramatari and Theotokis 2009	Consumers in Greece (n = 173) and Ireland (n = 402)	*				*					RFID
Rajavel and Karuppuswamy 2008	n/a (simulation)	*								*	Privacy preserving data mining approach
Razzouk et al. 2008	Students: 203 USA	*						*			RFID
Reagle and Cranor 1999	None	*								*	P3P
Resnick and Montania 2003	Students: 20 USA	*					*				Design
Rindfleisch 1997	None (context USA)	*		*	*	*				*	Health information, role of technology
Robbin and Koball 2001	25 USA professionals			*					*		
Rohm and Milne 2004	1427 USA consumers	*					*	*			Health information
Rose 2006	Adults: 459 New Zealand	*							*		Culture
Ryker et al. 2002	Websites: 50 Worldwide			*	*		*		*		FIP
Schwaig et al. 2005	Websites: 500 Worldwide			*	*				*		FIP
Schwaig et al. 2006	Websites: 500 Worldwide			*	*				*		FIP
Shapiro and Baker 2001	n/a (conceptual: context USA and Europe)	*								*	Risk, seals
Sheehan 2005	Websites: 94 USA				*				*		FIP, health information
Sheldon and Strader 2002	None: (context USA)			*			*				
Smith 1993	Executives and managers: 105 USA			*					*		
Smith 2004	None			*	*				*		

Author	Sample Origin	Level of Analysis				Research Topic								
		Individual	Group	Organization	Societal	Information Privacy Concern	E-Business Impacts	Attitudes	Practices	Tools	Others			
Smith et al. 1996	Students & employees: 2147 mostly USA	*				*								
Son and Kim 2008	Internet users: 523 USA	*				*			*					
Stewart and Segars 2002	Consumers: 400 USA	*				*								
Storey et al. 2009	Companies: Fortune 500			*					*					
Thiesse 2007	None	*								*			RFID	
Udo 2001	IT Users: 158 USA	*				*			*				Security concern	
Van Slyke et al. 2006	Internet Users: 1000 (USA?)	*				*			*				Risk, trust	
Venter et al. 2004	None			*								*	Privacy IDS	
Volokh 2000b	None	*										*	Personalization	
Warkentin and Johnston 2006	None	*										*	XML, trust	
Webster 1998	Company: 1 USA (case study)	*								*			Vide Conferencing	
Weiss 2009	(# unknown) experts in USA, Europe and Asia	*							*			*	Social network	
Woodman et al. 1982	2047 employees of 5 multinationals in USA	*								*				
Xiaoni et al. 2007	125 companies worldwide			*							*		Culture	
Xu 2009	n/a (conceptual)	*							*		*			
Xu 2010	292 students from Singapore	*							*				Location-based services; locus of control	
Xu and Gupta 2009	176 students in Singapore	*							*				Location-based services	
Xu et al. 2010	528 consumers in Singapore	*		*					*				Privacy calculus; risks, benefits, location-based services	
Yang and Chiu 2002	Websites: 354 Taiwan				*					*			Compliance	
Zhang et al. 2007	Websites: 150 Worldwide				*					*			Culture, trust	
Zuo and O'Keefe 2007	n/a (design)	*										*	Self-destructive file SDF tool	
TOTALS						46	38	26	62	19				

Appendix E

Conference Proceedings

After coding the journal articles, we turned our attention to conference proceedings. We searched the IEEE, ACM, and ICIS databases using the term “information privacy.” We then analyzed and coded the 50 most relevant IEEE and ACM articles using the same procedures that were used in coding the journal articles. We investigated 284 articles: 50 each from the IEEE conference proceedings database and the ACM Digital Library proceedings database, and 184 from the ICIS proceedings database. The papers were identified with the search engines of the databases using the relevance feature for ACM and IEEE, and a full text search for the ICIS database (which does not have a relevance feature).

After analyzing the papers from the IEEE and ACM databases, some papers were not categorized as they were not about information privacy. In addition, there is some overlap between the two databases so duplicate articles were eliminated and coded only once. This process resulted in the coding of 64 IEEE and ACM conference papers. The ICIS database consisted of proceedings from 1994 to 2009 and did not have a relevancy feature to sort on, so all 184 articles that appeared in the search were analyzed. An initial analysis, to determine whether the papers were about information privacy resulted in 41 being further analyzed for categorization. In the final analysis, 38 ICIS papers were included in the coding presented below. Three papers were not categorized because they were discussions of panels. Ultimately, 102 conference papers were categorized and are presented in the following tables.

Table E1. Conference Proceedings by Sample Characteristics

Respondent Type for Sample			National Origin of Sample		
Student Only	Nonstudent Only	Mixed	U.S.-centric	Non-U.S. centric	Mixed
Bansal et al. 2008; Chen et al. 2009; Dinev et al. 2009; Hann et al. 2007; Kim 2005; Krasnova et al. 2009; Hann et al. 2002; Lai and Hui 2004; Lai and Hui 2006; Li and Sarathy 2007; Razavi and Iverson 2006; Tam et al. 2002; Wu et al. 2009; Xu and Teo 2004; Xu et al. 2003; Xu et al. 2008a; Yao and Houston 2002	Al-Natour et al. 2009; Anderson and Agarwal 2009; Angst and Agarwal 2006; Cullen 2008; Cullen and Reilly 2007; Dhillon et al. 2002; Farahmand et al. 2008; Lu et al. 2004; Luanrattana et al. 2010; Navlakha et al. 2008; Noeteberg et al. 1999; Nguyen et al. 2008; Park 2009; Prince and Barrett 2005; Tan and Czerwinski 2003; Treiblmaier and Pollach 2007; Tsai et al. 2007; Tung et al. 2001; Xu et al. 2005; Xu 2007; Zukowski and Brown 2007	Kwasny et al. 2008; Lee and Kwon 2009	Bansal et al. 2008; Anderson and Agarwal 2009; Angst and Agarwal 2006; Dinev et al. 2009; Farahmand et al. 2008; Kwasny et al. 2008; Li and Sarathy 2007; Navlakha et al. 2008; Nguyen et al. 2008; Wu et al. 2009; Tan and Czerwinski 2003; Razavi and Iverson 2006; Xu et al. 2008a; Yao and Houston 2002	Al-Natour et al. 2009; Chen et al. 2009; Cullen 2008; Krasnova et al. 2009; Lai and Hui 2004; Lai and Hui 2006; Lu et al. 2004; Luanrattana et al. 2010; Noeteberg et al. 1999; Park 2009; Prince and Barrett 2005; Tam et al. 2002; Treiblmaier and Pollach 2007; Tsai et al. 2007; Xu and Teo 2004; Xu et al. 2003; Xu et al. 2005; Xu 2007; Yang and Miao 2008; Zukowski and Brown 2007	Dhillon et al. 2002; Hann et al. 2007; Kim 2005; Lee and Kwon 2009; Tung et al. 2001
No Sample					
Acquisto et al. 2006; Aggarwal et al. 2004; Ahmed et al. 2005; Al-Fedaghi and Alhaqan 2009; Al-Fedaghi and Thalheim 2008; An et al. 2006; Ateniense and Medeiros 2002; Blazic et al. 2007; Dewan et al. 2007; Dewri et al. 2009; Domingo-Ferrer and Bras-Amoros 2008; Dreyer and Olivier 1998; Franco et al. 2008; Ghanavati et al. 2007; Ghani and Sidek 2008; Ghani and Sidek 2009; Gurses et al. 2008; Han et al. 2006; Hawkey 2008; Hendricks 1991; Henricksen et al. 2005; Kauffman et al. 2009; Kondratova et al. 2006; Kraemer et al. 2002; Li et al. 2004; Light et al. 2008; Li and Sarkar 2004; Liu et al. 2010; Mashwani et al. 2009; Mun et al. 2007; Ochoa et al. 2007; Omran et al. 2008; Pan et al. 2009; Peng et al. 2009; Petersen and Turn 1967; Qingsheng et al. 2007; Razavi and Iverson 2007; Reddy and Venter 2009; Reddy et al. 2008; Shaw 1998; Sheppard et al. 2009; Shirali-Shahreza and Shirali-Shahreza 2007; Sipior and Ward 1996; Skinner 2007a; Skinner 2007b; Skinner 2008; Skinner and Chang 2007; Skinner et al. 2006a; Skinner et al. 2006b; Spiridon and Dichiou 2008; Suriadi et al. 2008; Taghva et al. 2007; Thatcher and Clemons 2000; Wu and Weaver 2006; Wu et al. 2008; Xu et al. 2008b; Yang and Luo 2009; Zhu and Peng 2007; Zhu et al. 2007					

Table E2. Conference Proceedings by Research Topics and Levels of Analysis

Author	Level of Analysis				Research Topic					
	Individual	Group	Organization	Societal	Information Privacy Concerns	E-Business	Attitudes	Practices	Tools	Other
Acquisto et al. 2006			*							Economics
Aggarwal et al. 2004			*						*	
Ahmed et al. 2005			*						*	
Al-Fedaghi and Alhaqan 2009	*								*	
Al-Fedaghi and Thalheim 2008			*						*	
Al-Natour et al. 2009	*					*				
An et al. 2006			*						*	
Anderson and Agarwal 2009	*						*			Health Care
Angst and Agarwal 2006	*						*			Health Care
Ateniese and Medeiros 2002			*						*	Health Care
Bansal et al. 2008	*							*		Trust
Blazic et al. 2007			*						*	
Chen et al. 2009	*				*					
Chellappa and Sin 2004			*							Economics
Cullen 2008	*						*			
Cullen and Reilly 2007	*						*			
Dewan et al. 2007			*						*	
Dewri et al. 2009			*						*	
Dhillon et al. 2002	*				*					
Dinev et al. 2009	*						*			
Domingo-Ferrer and Bras-Amoros 2008	*								*	
Dreyer and Olivier 1998			*						*	
Franco et al. 2008			*						*	
Ghanavati et al. 2007			*						*	
Ghani and Sidek 2008	*								*	
Ghani and Sidek 2009	*								*	
Gurses et al. 2008			*						*	
Han et al. 2006			*						*	Health Care
Hann et al. 2007	*					*				
Hann et al. 2002	*									Economics
Hawkey 2008	*								*	
Henricksen et al. 2005	*								*	
Farahmand et al. 2008	*						*			
Kauffman et al. 2009			*							Economics
Kim 2005	*									Culture, trust
Kondratova et al. 2006	*								*	
Kraemer et al. 2002				*		*				Culture
Krasnova et al. 2009	*							*		
Kwasny et al. 2008	*						*			
Lai and Hui 2004	*							*		

Author	Level of Analysis				Research Topic					
	Individual	Group	Organization	Societal	Information Privacy Concerns	E-Business	Attitudes	Practices	Tools	Other
Lai and Hui 2006	*							*		
Lee and Kwon 2009			*						*	
Li and Sarathy 2007	*					*				
Li and Sarkar 2004			*						*	
Li et al. 2004			*						*	
Light et al. 2008	*							*		
Liu et al. 2010	*								*	
Lu et al. 2004	*					*				
Luanrattana et al. 2010			*					*		
Mashwani et al. 2009	*								*	
Mun et al. 2007	*								*	
Navlakha et al. 2008	*					*				Trust
Nguyen et al. 2008	*				*					RFID
Noeteberg et al. 1999	*					*				Trust
Ochoa et al. 2007			*						*	
Omran et al. 2008			*						*	
Pan et al. 2009	*								*	
Park 2009	*				*					
Peng et al. 2009	*								*	
Petersen and Turn 1967			*						*	
Prince and Barrett 2005	*				*				*	
Qingsheng et al. 2007	*								*	
Razavi and Iverson 2006	*				*					
Razavi and Iverson 2007	*								*	
Reddy and Venter 2009			*						*	
Reddy et al. 2008			*						*	
Shaw 1998	*						*			
Sheppard et al. 2009			*						*	
Shirali-Shahreza and Shirali-Shahreza 2007			*						*	
Sipior and Ward 1996	*									Legal
Skinner 2008			*						*	
Skinner 2007a	*		*						*	
Skinner 2007b			*						*	
Skinner and Chang 2007			*						*	
Skinner et al. 2006a			*					*		
Skinner et al. 2006b	*								*	
Spiridon and Dichiu 2008			*						*	
Suriadi et al. 2008	*								*	
Taghva et al. 2007			*						*	
Tam et al. 2002	*								*	
Tan and Czerwinski 2003	*				*				*	
Thatcher and Clemons 2000			*						*	Economics

Author	Level of Analysis				Research Topic					
	Individual	Group	Organization	Societal	Information Privacy Concerns	E-Business	Attitudes	Practices	Tools	Other
Treiblmaier and Pollach 2007	*				*		*			
Tsai et al. 2007	*							*		
Tung et al. 2001	*									Trust
Wu and Weaver 2006	*									Trust
Wu et al. 2008			*						*	
Wu et al. 2009	*							*		
Xu 2007	*				*					
Xu and Teo 2004	*				*					
Xu et al. 2003	*					*				Trust
Xu et al. 2005	*					*				Trust
Xu et al. 2008a	*				*					
Xu et al. 2008b	*								*	
Yang 2008				*					*	
Yang and Luo 2009			*						*	RFID
Yang and Miao 2008	*				*					
Yao and Houston 2002	*					*				
Zhu and Peng 2007			*						*	
Zhu et al. 2007			*						*	
Zukowski and Brown 2007	*				*					Control, awareness

Table E3. Conference Proceedings by Theoretical Contributions

Analyzing	Explaining	Predicting	Explaining & Predicting	Design & Action
Hendricks 1991; Kwasny et al. 2008; Light et al. 2008; Luanrattana et al. 2010; Prince and Barrett 2005; Skinner et al. 2006a; Sipior and Ward 1996)	Acquisto et al. 2006; Chellappa and Sin 2004; Cullen 2008; Dhillon et al. 2002; Farahmand et al. 2008; Hann et al. 2002; Kraemer et al. 2002; Krasnova et al. 2009; Razavi and Iverson 2006; Treiblmaier and Pollach 2007; Wu and Weaver 2006; Zukowski and Brown 2007	Shaw 1998)	Al-Natour et al. 2009; Anderson and Agarwal 2009; Angst and Agarwal 2006; Bansal et al. 2008; Chen et al. 2009; Cranor et al. 2007; Dinev et al. 2009; Hann et al. 2007; Kauffman et al. 2009; Kim 2005; Lai and Hui 2004; Li and Sarathy 2007; Lu et al. 2004; Navlakha et al. 2008; Noeteberg et al. 1999; Park 2009; Tam et al. 2002; Tan and Czerwinski 2003; Thatcher and Clemons 2000; Tsai et al. 2007; Tung et al. 2001; Wu et al. 2009; Xu et al. 2003; Xu et al. 2005; Xu 2007; Xu and Teo 2004; Xu et al. 2008a; Yang and Miao 2008; Yao and Houston 2002	Aggarwal et al. 2004; Ahmed et al. 2005; Al-Fedaghi and Alhaqan 2009; Al-Fedaghi and Thalheim 2008; An et al. 2006; Ateniese and Medeiros 2002; Blazic et al. 2007; Dewan et al. 2007; Dewri et al. 2009; Domingo-Ferrer and Bras-Amoros 2008; Dreyer and Olivier 1998; Franco et al. 2008; Ghanavati et al. 2007; Ghani and Sidek 2008; Ghani and Sidek 2009; Gurses et al. 2008; Han et al. 2006; Hawkey 2008; Henricksen et al. 2005; Kondratova et al. 2006; Lee and Kwon 2009; Li and Sarkar 2004; Li et al. 2004; Liu et al. 2010; Mashwani et al. 2009; Mun et al. 2007; Ochoa et al. 2007; Omran et al. 2008; Pan et al. 2009; Peng et al. 2009; Petersen and Turn 1967; Qingsheng et al. 2007; Razavi and Iverson 2007; Reddy and Venter 2009; Reddy et al. 2008; Sheppard et al. 2009; Shirali-Shahreza and Shirali-Shahreza 2007; Skinner 2007a; Skinner 2007b; Skinner 2008; Skinner and Chang 2007; Skinner et al. 2006b; Spiridon and Dichiu 2008; Suriadi et al. 2008; Taghva et al. 2007; Wu et al. 2008; Xu et al. 2008b; Yang 2008; Yang and Luo 2009; Zhu and Peng 2007; Zhu et al. 2007

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- Anonymous. 2005d. "Credits," *Journal of Information Privacy & Security* (1:2), p. i.
- Anonymous. 2005e. "Table of Contents," *Journal of Information Privacy & Security* (1:4), p. iii.
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- Anonymous. 2006a. "Credits," *Journal of Information Privacy & Security* (2:2), p. i.
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- Anonymous. 2006e. "Table of Contents," *Journal of Information Privacy & Security* (2:3), p. iii.
- Anonymous. 2006f. "Table of Contents," *Journal of Information Privacy & Security* (2:2), p. iii.
- Anonymous. 2006g. "Table of Contents," *Journal of Information Privacy & Security* (2:1), p. iii.
- Anonymous. 2007a. "Credits," *Journal of Information Privacy & Security* (3:4), p. i.
- Anonymous. 2007b. "Credits," *Journal of Information Privacy & Security* (3:1), p. i.
- Anonymous. 2007c. "Credits," *Journal of Information Privacy & Security* (3:2), p. i.
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- Anonymous. 2007e. "Table of Contents," *Journal of Information Privacy & Security* (3:4), p. iii.
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- Anonymous. 2008b. "Credits," *Journal of Information Privacy & Security* (4:3), p. 0_2.
- Anonymous. 2008c. "Credits," *Journal of Information Privacy & Security* (4:2), p. 0_2.
- Anonymous. 2008d. "Credits," *Journal of Information Privacy & Security* (4:1), p. 0_2.
- Anonymous. 2008e. "Table of Contents," *Journal of Information Privacy & Security* (4:4), p. iii.
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