

Computer Ethics

Information flow, privacy, and surveillance

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Why care about privacy? (Johnson 2009)

- IT configured societies are often characterized as `surveillance societies'
 - What, if anything, the value of privacy?
 - If privacy disappears, what exactly will be lost?
 - How does surveillance affect social arrangements, institutions, and practices?
 - What sort of **beings** do we become when we live in **surveillance** societies?



What is privacy? (van der Hoven et al. 2016)

 Right to be left alone based on a principle of 'inviolate personality' (Warren & Brandeis 1890)

Constitutional (or decisional) privacy

 Freedom to make one's own decisions without interference by others in regard to matters seen as intimate and personal (e.g., to have an abortion)

Tort (or informational) privacy

- Interest of individuals in exercising control over access to information about themselves (e.g., information disclosed on social media)
- The privacy debate has co-evolved with the development of information technology

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Information flow with information technologies

- All three characteristics we identified come into play in privacy and surveillance issues
 - Reproducibility: if it weren't for reproducibility, information would still be difficult to distribute and manipulate
 - Identity conditions of the Internet: they come into play because it is difficult (and often practically impossible for most) to operate online without being tracked in several ways
 - Information flows globally from many-to-many, one-to-one, and many-to-one





- Much more personal information is collected (scale)
 - Electronic records are easy to create, store, maintain, manipulate, search and share
- New kinds of personal information are created (**type**)
 - Transaction generated information (TGI) didn't exist before
- Personal information is distributed more widely (distribution)
 - Once information about an individual is recorded on a server, it can be bought and sold, given away, traded, or stolen
- This information endures for longer periods of time (**endurance**)
 - When information is stored electronically, there may be little incentive to get rid of it
- The effects of **erroneous personal information** are **magnified**
 - The erroneous information may spread so quickly that is impossible for an individual to track down all the places it exists





- Those who think we need not worry about intensive tracking and monitoring of individual behavior can make the following arguments
 - Privacy only protects people who have something to hide: if you aren't doing anything wrong, you should have no need to worry about being watched
 - 2) **Privacy** is **overrated**: those who live in IT-configured societies have in fact let privacy go and this is evidence that privacy is neither valued nor valuable
 - 3) The information that organizations gather about individuals has enormous **benefits** to the **organizations** that gather it as well as to the **individuals** the information is about



- Privacy only protects people who have something to hide
 - Erroneous information can dramatically affect your life even if you have done nothing wrong
 - It may result in you being denied a benefit you are entitle to or subjected to a treatment you don't deserve
 - E.g. issues related to the accuracy of Police databases
 - Information that is inappropriate or unfair for an organization to use
 - Information can be used inappropriately to make decisions for which the information is irrelevant or even illegal to use
 - E.g. information posted on a social networking site and used by a company to make a hiring decision



- Privacy is overrated
 - The fact that individuals readily give out personal information doesn't mean necessarily that they don't value privacy, or that privacy isn't valuable
 - They may be **naïve** or **uniformed**, or may be just **wrong**
 - The choices available to individuals when they opt to give out personal information may be constructed in such a way that individuals may unknowingly choosing against their own interests
 - E.g. often we are given only the choice to take the benefit in exchange for disclosure of information or not to get the benefit at all
 - What seems to be a choice about a local sharing of information may actually be a choice for global sharing
 - E.g. cumulative effects of giving up privacy in this or that sector



- Personal information-gathering practices can be beneficial to information-gathering organizations and to their customers and subjects
 - Do organizations use the information to serve their customers or to shape them?
 - Do these organizations use appropriate information when they make decisions about individuals?
 - To analyze in an utilitarian framework: both positive and negative consequences, and for all of those who are affected



- Privacy is an important value that is intertwined with autonomy, equality, and democracy
- Its importance ought to be recognized in IT-based practices
- Privacy as an **instrumental good** for certain kinds of human relationships
 - Friendship, intimacy, and trust could not develop in societies or context in which individuals are under constant surveillance (Fried 1968)
 - Privacy is necessary to maintain a diversity of relationships: the kind of relationships we have with others is a function of the information we have about each other; if everyone had the same information about you, you would not have a diversity of relationship (Rachels 1975)



- When individual privacy is balanced against social goods, such as security and government efficiency, personal privacy loses (e.g. U.S. Patriot Act, Apple vs. FBI)
- Instead of framing privacy as an individual good, we should understand it as a **social good** (Regan 1995)
- Reframing in terms of the **utilitarian calculus**
 - When social good is balanced against the good of some individuals, social good generally wins
 - When two social good are pitted against each other, both must be taken into account



- A number of information theorists have observed that living in a IT-configured society is similar to living in a `panopticon', a structure designed by Jeremy Bentham (1787) to serve as a prison
- Autonomy not just as an individual good but rather as essential to democracy



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- Panopticon means `all-seeing'
 - The chambers in which prisoners lived would be arranged in a circle and the side of each cell facing the inside of the circle would be made of glass
 - The guard tower would be placed in the middle of the circle, so a guard standing in the guard tower would have view of every chamber, but prisoners could not see the guard in the tower
 - As long as prisoners believe they are probably being watched (the guard doesn't need to be there at every moment) they will adjust their behavior and adhere to the norms they believe the guards want to enforce





- In IT-configured societies, if much of what we do is recorded and likely to have future consequences in the way we are treated, then we have to consider our watchers and their norms whenever we act
- Two different concerns arise
 - Effect on our freedom (autonomy)
 - Who are our watchers and how have they selected the norms of behavior by which they evaluate us? Effects on democracy
- The idea of **democracy** is that **citizens** have the **freedom** to exercise their **autonomy**
 - Democracy requires citizens capable of **critical thinking**
 - Privacy is not only an individual good, but a social good that it should not be eliminated when it comes into tension with other social goods



- The problem is not just that we are being tracked and monitored
- The norms by which we are measured, evaluated, and treated are often not subject to public discussion and negotiation
 - They are **invisible** to the individuals being watched, evaluated, and treated





Fair information practices

- Ex.: Code of Fair Information Practices" (1973)
 - There must be no personal data record-keeping system whose existence is secret
 - There must be a way for an individual to find out what information about him or her is in a record and how it is used
 - There must be a way for an individual to prevent information about him or her that was obtained for one purpose from being used or made available for other purposes without his or her consent
 - There must be a way for an individual to correct or amend a record of identifiable information about him or her
 - Any organization creating, maintaining, using, or disseminating records of identifiable personal data must assure the **reliability of** the data for their intended use





Adoption of transparency policies

 One of the reasons that consumers and clients are so complaint when it comes to their privacy is that they are unware of information practices

Opt-in versus Opt-out

- Given how little information consumers, clients, and citizens have about information practices, the opt-out strategy seems unfair if not deceptive
- If organizations cannot use personal information about us unless they get our permission, then they have to inform us of their practices and convince us that we want to opt-in





Design and computer professionals

- Role that IT professionals can play in **protecting privacy**
- The architecture of IT systems can make a big difference in what kind of data is collected and how it flows from place to place
- It professionals are often in the best position to evaluate the security and reliability of databases of personal information and the potential uses and abuses



- ACM code of conduct about the principle of the individual's privacy
 - Minimize the data collected
 - Limit authorized access to the data
 - Provide proper security for the data
 - Determine the required retention period of the data
 - Ensure proper disposal of the data



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- It is not true that we don't need to worry
- Analysis and examples are provided
- Privacy is not only an individual good but also a social good
- Privacy is related to **autonomy**
- Autonomy is essential for **democracy**
- There exist different **strategies** to cope with these issues



- Fried, C. (1968). "Privacy: A Moral Analysis", Yale Law Journal 77(1): 475-493
- Johnson, D. (2009). *Computer Ethics*, Forth Edition, Prentice-Hall
- Miller, J.I. (2004). "Don't Be Evil: Gmail's Relevant Text Advertisements Violate Google's Own Motto and Your Email Privacy Rights", *Hofstra Law Review* 33: 1607-1641
- Nissenbaum, H. (2004). "Privacy as Contextual Integrity", Washington Law Review 79(1): 119-158
- Rachels, J. (1975). "Why Privacy is Important?", *Philosophy and Public Affairs* 4(4): 323-333
- Regan, P. (1995). Legislating Privacy: Technology, Social Values, and Public Policy. University of North Carolina Press
- Van den Hoven, Jeroen, Blaauw, Martijn, Pieters, Wolter and Warnier, Martijn, "Privacy and Information Technology", *The Stanford Encyclopedia of Philosophy* (Spring 2016 Edition), Edward N. Zalta (ed.), URL = <https://plato.stanford.edu/archives/spr2016/entries/itprivacy/>