CS 4873: Computing, Society & Professionalism

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Week 7: Privacy and Governmental Surveillance February 17, 2020

Big data meets Big Brother as China moves to rate its citizens

Rachel Botsman

23-29 minutos

On June 14, 2014, the State Council of China published an ominous-sounding document called "Planning Outline for the Construction of a Social Credit System". In the way of Chinese policy documents, it was a lengthy and rather dry affair, but it contained a radical idea. What if there was a national trust score that rated the kind of citizen you were?

A Balancing Act

- Federal, state, and local governments in United States have had significant impact on privacy of individuals
- Government must balance competing desires of citizens
 - desire to be left alone
 - desire for safety and security

* Two case examples of this balancing act...

Solove's Taxonomy of Privacy

- Information collection: Activities that gather personal information
- Information processing: Activities that store, manipulate, and use personal information that has been collected
- Information dissemination: Activities that spread personal information
- **Invasion:** Activities that intrude upon a person's daily life, interrupt someone's solitude, or interfere with decision-making

Class Discussion:

Relationship with definitions of privacy

- 1) Information collection gathering personal information.
- Information processing storing, manipulating, using personal info that has been collected
- 3) Information dissemination spreading personal information
- Invasion intruding upon a person's daily life, interrupting someone's solitude, or interfering with decision-making

- a) Privacy is the right to be left alone (Warren & Brandeis).
- b) Privacy is the state of being away from public attention (Gavison).
- c) Privacy is control over who knows what about us (Rachels).
- d) Privacy is the appropriate flow of personal information (Nissenbaum).
- e) Privacy is not simply an absence of information about us in the minds of others; rather it is the control we have over information about ourselves (Fried).

Information Collection by the Government (Direct)

- Purpose: accountability and fairness

* Census Records

- Census required to ensure every state has fair representation
- Number of questions steadily rising
- Sometimes Census Bureau has broken confidentiality requirement
 - World War I: draft resistors
 - World War II: Japanese-Americans

* Internal Revenue Service Records

- The 16th Amendment to the US Constitution gives the federal government the power to collect an income tax
- IRS collects more than \$2 trillion a year in income taxes
- Income tax forms contain a tremendous amount of personal information: income, assets, to whom you make charitable contributions, medical expenses, and more

FBI National Crime Information Center

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- NCIC
 - Collection of databases related to various crimes
 - Contains > 39 million records
- Successes
 - Helps police solve hundreds of thousands of cases every year
 - Helped FBI tie James Earl Ray to assassination of Dr. Martin Luther King, Jr.
 - Helped FBI apprehend Timothy McVeigh for bombing of federal building in Oklahoma City

Discussion Point: What are the downsides of maintaining the NCIC database?

Closed Circuit Television Cameras

- First use in Olean, New York in 1968
- Now more than 30 million cameras in US
- New York City's effort in lower Manhattan
 - \$201 million for 3,000 new cameras
 - License plate readers
 - Radiation detectors

Discussion Point: Are surveillance cameras effective? Mixed opinion: ACLU opposition; London bombings in subway in 2005

Social Security Number

- Social Security cards first issued 1936
- Originally used only for Social Security purposes
- Use of SSN has gradually increased
- SSN is a poor identification number
 - Not unique
 - Rarely checked
 - No error-detecting capability

SSN -> National Identification Card -> Discussion in your section this week

Challenges of government information collection

Surveillance Camera Images of Boston Marathon Bombing Suspects



Covert Government Surveillance

Wiretapping – J. Edgar Hoover



First Director of FBI

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Privacy Post 9/11

 National security concerns increased significantly after 9/11 attacks

Privacy Post 9/11

- (2006 poll) 70% Americans supported "expanded camera surveillance on streets and in public places"
- 62% supported "law enforcement monitoring of Internet discussions in chat rooms and other forums"
- 61% supported "closer monitoring of banking and credit card transactions to trace funding sources"
- 52% supported "expanded governmental monitoring of cell phones and emails to intercept communications"

NSA Wiretapping Post 9/11

- President Bush signed presidential order
 - OK for NSA to intercept international phone calls & emails initiated by people inside US
 - No search warrant required
- Number of people monitored
 - About 500 people inside US
 - Another 5,000-7,000 people outside US
- Two al-Qaeda plots foiled
 - Plot to take down Brooklyn bridge
 - Plot to bomb British pubs and train stations

Information Processing/Mining by the Government

Syndromic Surveillance Systems

- Syndromic surveillance system: A data mining system that searches for patterns indicating the outbreak of an epidemic or bioterrorism
 - 911 calls
 - emergency room visits
 - school absenteeism
 - Internet searches
- Example: A system in New York City detected an outbreak of a virus in 2002

When can information processing/data mining by the Government go wrong?



THE NSA'S SECRET ROLE IN THE U.S. ASSASSINATION PROGRAM

Government Legislation restricting information dissemination

Family Education Rights and Privacy Act (FERPA)

- Rights given to
 - Students 18 years and older
 - Parents of younger students
- Rights include
 - Reviewing educational records
 - Requesting changes to erroneous records
 - Preventing release of records without permission

Health Insurance Portability and Accountability Act (HIPAA)

- Limits how doctors, hospitals, pharmacies, and insurance companies can use medical information
- Health care providers need signed authorization to release information
- Health care providers must provide patients with notice describing how they use medical information