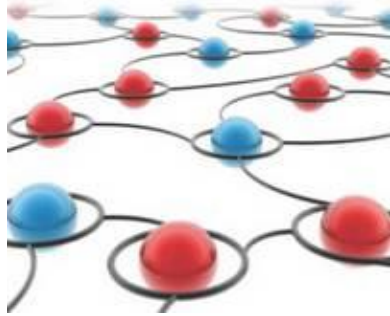


PRIVACY IN CONTEXT

Technology, Policy, and the Integrity of Social Life

HELEN NISSENBAUM



PRIVACY IN THE DIGITAL AGE

HELEN NISSENBAUM
VITALY SHMATIKOV



TAs:

Rishi Jha

Hauke Sandhaus



1999

"Get over it"

2010

"No one cares"

2009

"If you've done nothing wrong..."



What They Know

2012: ON THE RECORD

2011: THE END OF PRIVACY

WSJ investigative series
(2011-2012)



Series
has created a new economy, in which data on people's habits, activities and interests is collected, sold and traded, often without their knowledge. The Wall Street Journal's What They Know series documents new, cutting edge uses of tracking technology and what the rise of ubiquitous surveillance means for consumers and society.

Most Popular In Europe

Read · Emailed · Video · Commented

1. The Return of the Winklevoss Twins
2. Spain Is Wary Of More Cuts
3. Taliban Raid Penetrates Base



An Amazon Echo May Help Solve a Murder. That Should Worry Privacy Advocates.

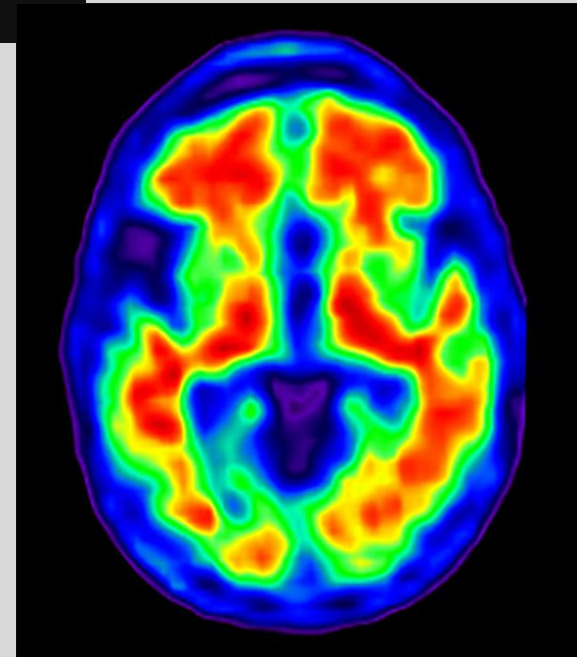
By Jacob Brogan

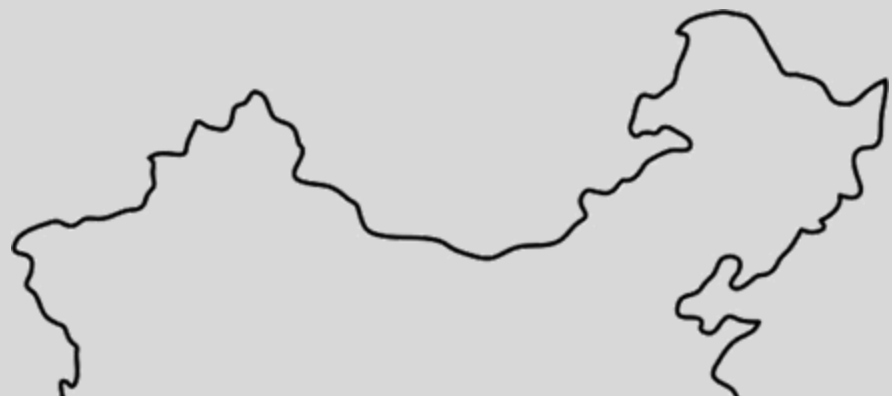


As mind-reading technology improves, Colorado passes first-in-nation law to protect privacy of our thoughts

April 17, 2024: Colorado becomes the first state to protect **privacy of brain activity**

Includes biological and neural data generated by the brain, the spinal cord, and the network of nerves throughout the human body



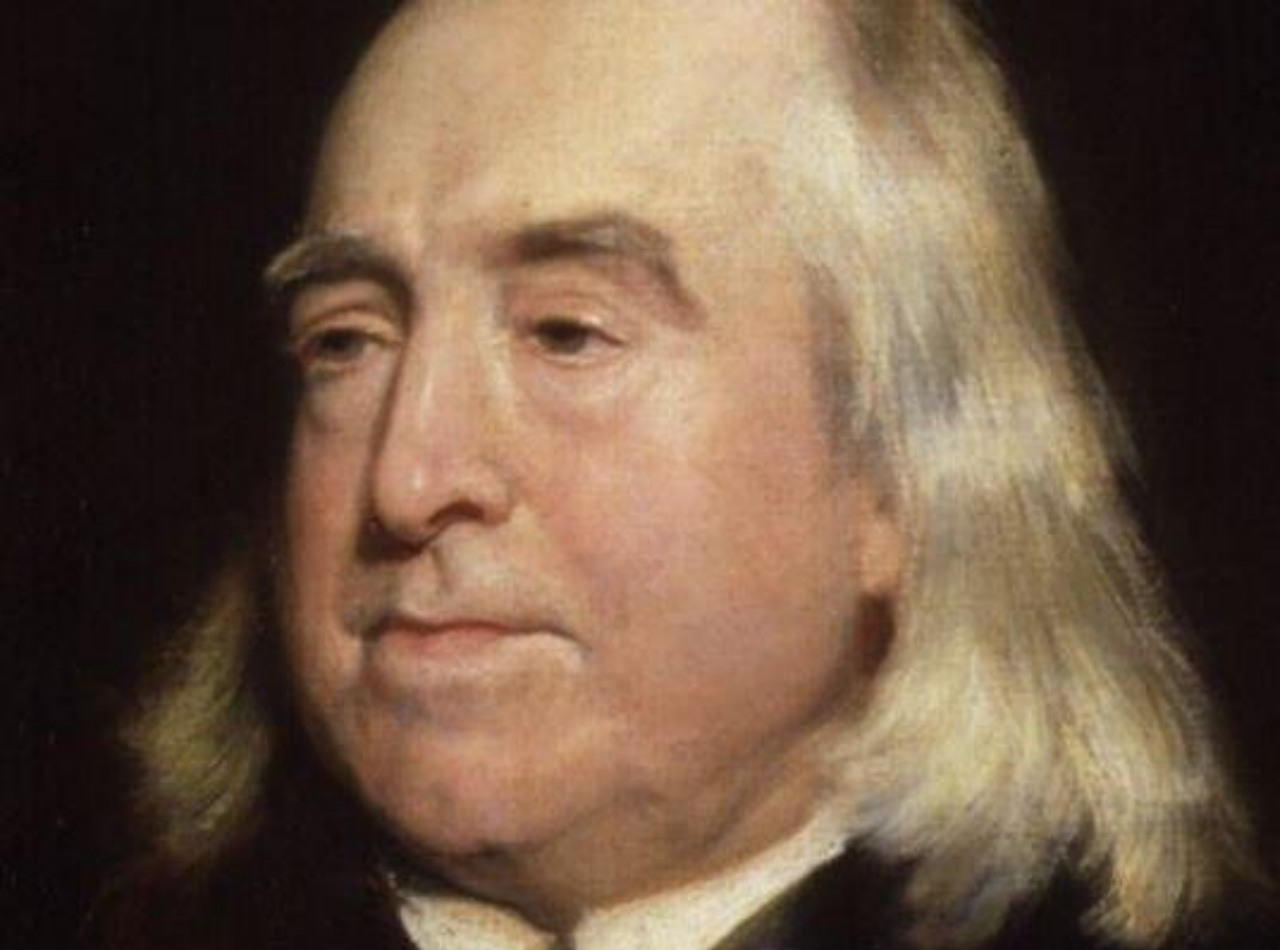


'An Invisible Cage': How China Is Policing the Future



NYPD to deploy drones in Central Park to combat crime (August 2024)

Silicon Valley is piling into the business of snooping



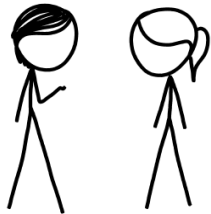
THE INTERNET PANOPTICON

OPINIONS ON INTERNET PRIVACY

THE PHILOSOPHER:

"PRIVACY" IS AN IMPRACTICAL WAY TO THINK ABOUT DATA IN A DIGITAL WORLD SO UNLIKE THE ONE IN WHICH OUR SOCI-

SO BORED.



THE CRYPTO NUT:

MY DATA IS SAFE BEHIND SIX LAYERS OF SYMMETRIC AND PUBLIC-KEY ALGORITHMS.

WHAT DATA IS IT?

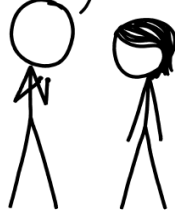
MOSTLY ME EMAILING WITH PEOPLE ABOUT CRYPTOGRAPHY.



THE CONSPIRACIST:

THESE LEAKS ARE JUST THE TIP OF THE ICEBERG. THERE'S A WAREHOUSE IN UTAH WHERE THE NSA HAS THE ENTIRE ICEBERG.

I DON'T KNOW HOW THEY GOT IT THERE.



THE NIHILIST:

JOKES ON THEM, GATHERING ALL THIS DATA ON ME AS IF ANYTHING I DO MEANS ANYTHING.



THE EXHIBITIONIST:

MMMM, I SURE HOPE THE NSA ISN'T WATCHING ME BITE INTO THESE JUICY STRAWBERRIES!!

OOPS, I DRIPPED SOME ON MY SHIRT! BETTER TAKE IT OFF.

GOOGLE, ARE YOU THERE?

GOOGLE, THIS LOTION FEELS SOOOO GOOD.

UM.



THE SAGE:

I DON'T KNOW OR CARE WHAT DATA ANYONE HAS ABOUT ME.

DATA IS IMAGINARY. THIS BURRITO IS REAL.



Majority of Americans feel as if they have little control over data collected about them by companies and the government

% of U.S. adults who say ...

		Companies	The government
Lack of control	They have very little/no control over the data ___ collect(s)	81%	84%
Risks outweigh benefits	Potential risks of ___ collecting data about them outweigh the benefits	81%	66%
Concern over data use	They are very/somewhat concerned about how ___ use(s) the data collected	79%	64%
Lack of understanding about data use	They have very little/no understanding about what ___ do/does with the data collected	59%	78%

Note: Those who did not give an answer or who gave other responses are not shown.

Source: Survey conducted June 3-17, 2019.

"Americans and Privacy: Concerned, Confused and Feeling Lack of Control Over Their Personal Information"

PEW RESEARCH CENTER

Anyone Remembers This One?



A screenshot of the Gmail web interface from the early 2000s. The top left shows the "Gmail" logo and a navigation menu with "Compose Mail", "Inbox", "Buzz" (highlighted), "Starred", "Sent Mail", and "Drafts". The main content area displays a "Welcome to Google Buzz" message. It states: "You're set up to follow the people you email and chat with the most." Below this, there are two rows of profile picture thumbnails. The first row says "You're automatically following 21 people. Edit" and "You'll see the public buzz they post." The second row says "12 people are already following you. Edit" and "They'll see the public buzz you post." To the right of these rows is a profile picture of a man named "Ted" with a double-headed arrow indicating a mutual connection. At the bottom of the message, it says: "Your Google Reader shared items, Picasa Web public albums, and Google Chat status messages as posts in Buzz. To edit your connected sites or change privacy settings, view connected sites." An "Okay" button is at the bottom left of the message box.

Image: Christian Science Monitor



Privacy and Security Concerns in Generative AI: A Comprehensive Survey

— Publisher: **IEEE**

Cite This

PDF



Generative Artificial Intelligence and Data Privacy: A Primer

May 23, 2023



Welcome to ChatGPT
Sign up for your OpenAI account to continue

Navigating Generative AI Privacy: Challenges & Safeguarding Tips



ChatGPT is a data privacy nightmare. If you've ever posted online, you ought to be concerned

Published: February 7, 2023 8:06pm EST Updated: February 9, 2023 11:30pm EST

Prerequisites: Some combination of these

- Expert knowledge of Web and mobile technologies
- Knowledge of computer networking (at the level of an undergraduate CS course)
- Knowledge of algorithms (at the level of an undergraduate CS course)
- Familiarity with key machine learning techniques, especially deep learning
- Eagerness to devote time and energy to non-technical material
- Undergraduate-level coursework in one or more of the following: social science, philosophy, ethics
- Ability to program
- Familiarity with Web and mobile technologies
- Introductory-level understanding of computer networking and machine learning
- Willingness to try your hand at implementation

Syllabus

- Web and mobile tracking
- Location privacy
- Data analytics and differential privacy
- Communication privacy and “going dark”
- Privacy in machine learning
- Face recognition and biometrics
- Genomic privacy
- IoT privacy
- Contextual integrity
- Ethical and philosophical approaches to privacy
- Legal landscape of privacy
- Privacy engineering
- Behavioral studies and empirical methods
- Privacy policies
- User studies and HCI issues

+ several lectures from guest experts and industry leaders



Telegram messaging app CEO Pavel Durov arrested in France

Local reports suggest French investigators focused on a lack of moderators on Telegram, which allowed criminal activity to go on undeterred.



August 24, 2024

Failure to moderate criminal content, complicity in criminal conduct, negligence, lack of cooperation with authorities, providing encryption and authentication services without certified declaration...

Source: NBC News

TECHNOLOGY

ETHICS

PRIVACY

POLICY

LAW

PHILOSOPHY

Some things
change

Some things
stay the
same

Track
Surveil
Monitor



GPS, mobile, implantable devices, RFID, CCTV, sensors, networked sensors, image, video and audio, Web cookies and fingerprints, mobile identifiers, cross-device tracking

Profile
Predict
Target
Manipulate



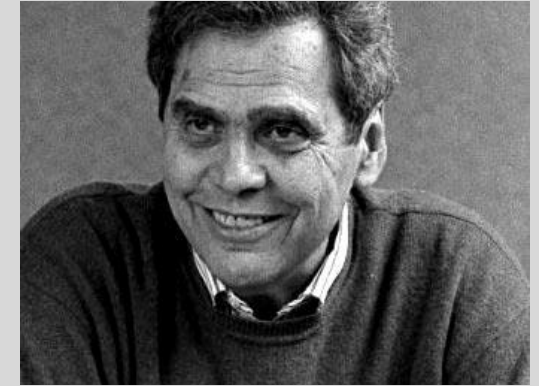
"Big Data", databases, data aggregation, mining, predictive modeling, machine learning, data science, data analytics, AI, biometrics, facial recognition

Communicate
Socialize



Internet, Web, IoT, social computing, social networks, Email, mobile tech, "gig" work, social media platforms

“Faustian bargain. Technology giveth and technology taketh away.” Neil Postman, 1988



FEDERAL TRADE COMMISSION
PROTECTING AMERICA'S CONSUMERS

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Technology Blog

Keeping Your Privacy Enhancing Technology (PET) Promises

By: Simon Fondrie-Teitler, Office of Technology | February 1, 2024

[f](#) [X](#) [in](#)

Deloitte
Digital

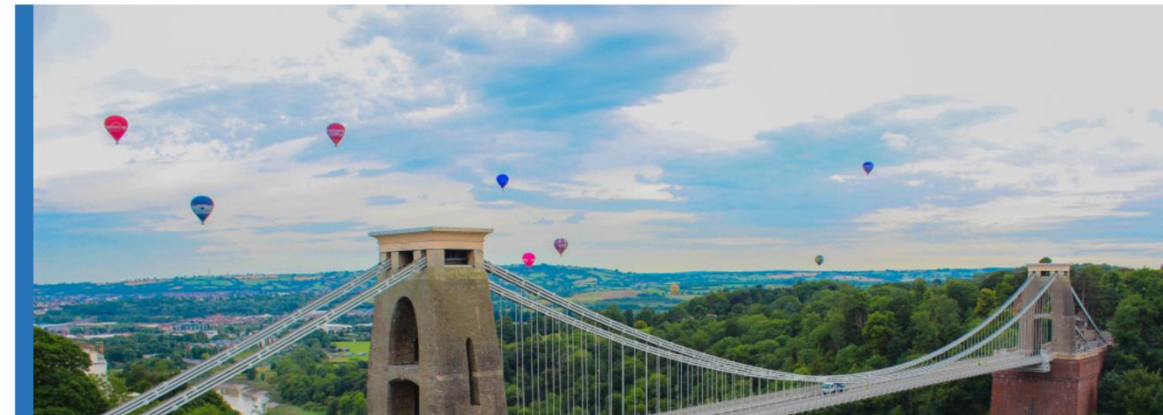
A Marketer's Guide to
Privacy-Enhancing Technologies

Privacy Enhancing Technologies Symposium

Bristol, UK and Online, 2024

Go to PoPETs | **PETS**

[Home](#) | [Program](#) | [Attending](#) | [HotPETs](#) | [Workshops](#) | [Awards](#) | [Past PETS](#) | [Code of conduct](#)



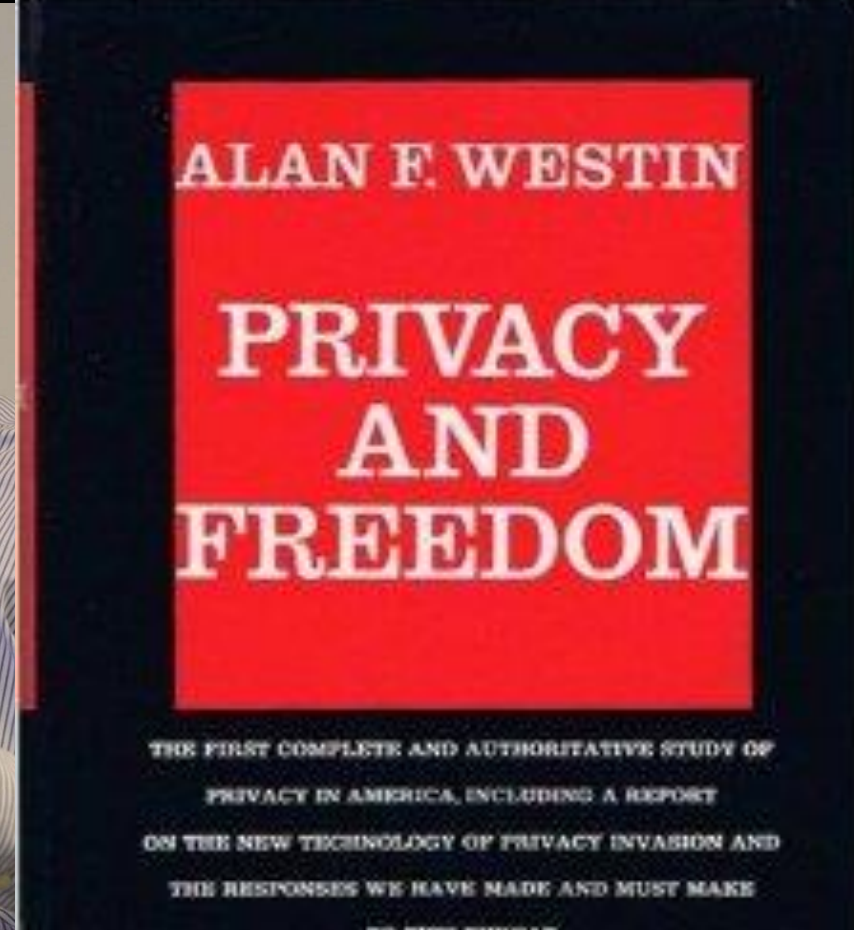
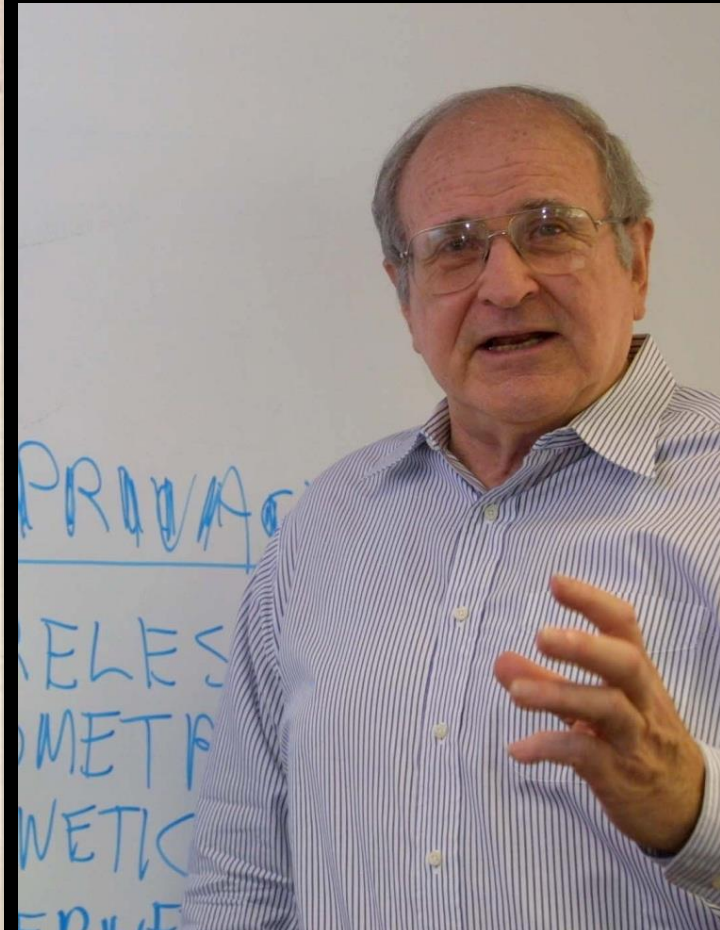
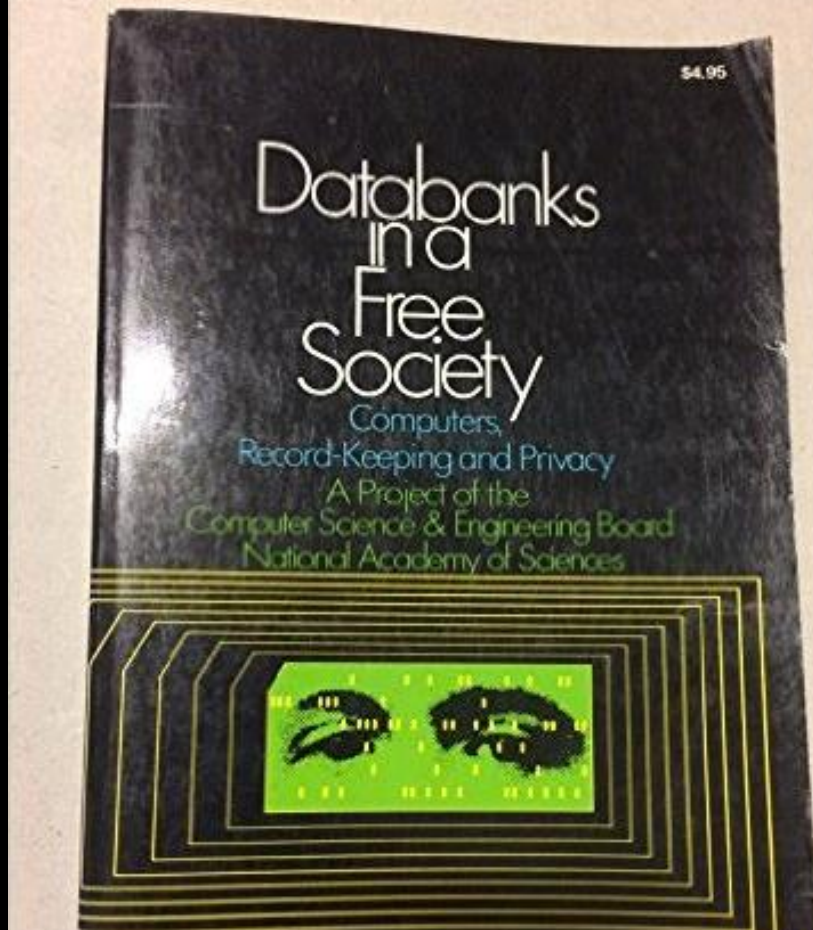
Tech and Ethics Together: Solving the Right Problem

Keeping data secret?

Giving data subjects control?

Preventing bad uses of data?

Punishing bad uses of data?



PHILOSOPHY & ETHICS MEANINGFUL PRIVACY

An Ethical Perspective on Privacy

What does this mean?

Right OR Wrong?

- + Individual action and decision
- + Societal policy (law, regulation, practice)



RUTH GAVISON



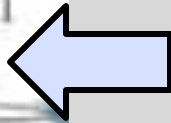
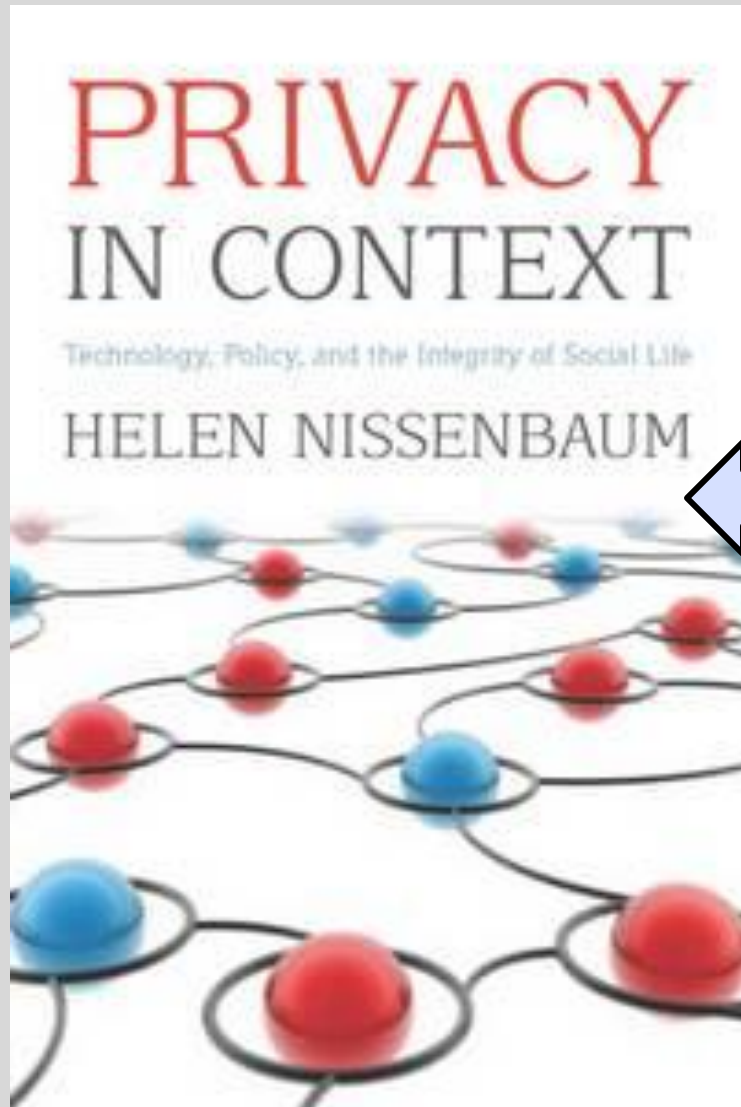
ISAIAH BERLIN



PRIS REGAN



CHRIS HOOFNAGLE



Our
textbook

Legal Perspectives

4th Amendment

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.



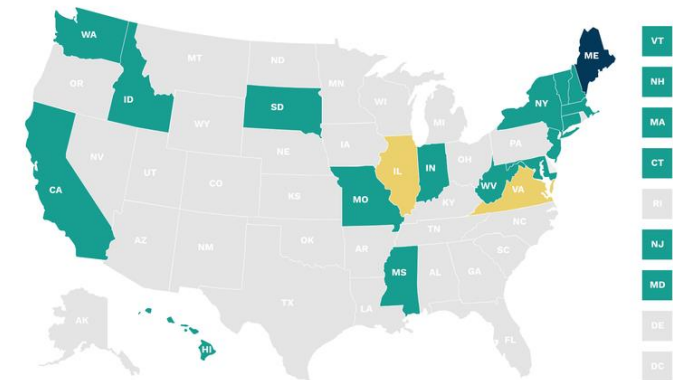
Illinois Biometric Information Privacy Act

2020 State Legislation: Facial Recognition



Which states are considering facial recognition bills in 2020?

■ Facial recognition legislation introduced ■ DL/ID photo sharing legislation introduced ■ Facial recognition and DL/ID photo sharing legislation introduced

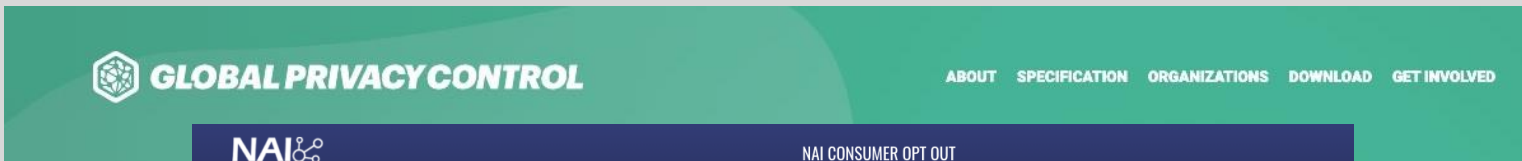


Source: MultiState Associates. Data as February 19, 2020.

Policy Perspectives

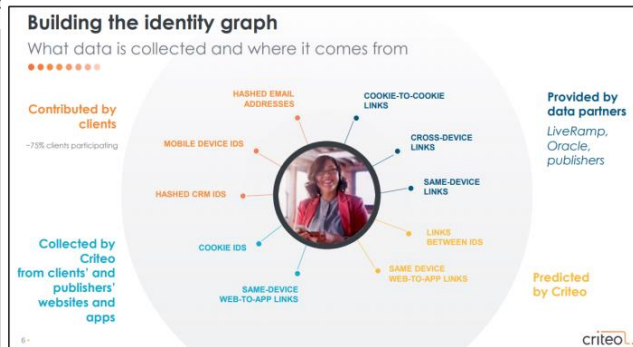
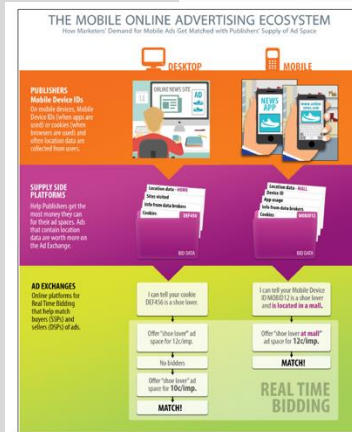
Industry

Government



OPT OUT OF INTEREST-BASED ADVERTISING

AI's opt-out page where you can learn more about NAI members who deliver tailored online ads and your choices to opt out about this to



Course Logistics

Grading

- 72% : four homeworks (18% each)
- 18% take-home final exam
- 10% class participation

Website (schedule, readings)

- TBA

Slack (lecture notes, discussion)

Assignments distributed via Canvas

Assignments will be a mix of questions. Some required for all students; others, pick your own among questions that are

- more technical,
- more with reading and writing, emphasis on ethical aspects

Be sure to join Slack!

Homework Logistics

Teaming: Ok to discuss, submissions must be individual

No late submissions!

- 20% penalty for first late day, after that at instructors' discretion

Use of GPT and similar: we prefer you don't, but if you do, any use must be disclosed and cited

Assigned Reading



[About](#) [Issues](#) [Our Work](#) [Take Action](#) [Tools](#)

Behind the One-Way Mirror: A Deep Dive Into the Technology of Corporate Surveillance

BY [BENNETT CYPHERS](#) AND [GENNIE GEBHART](#) | DECEMBER 2, 2019