

Computer Ethics (English)

Spring 2014

BLG412E

Week 4 & 5: Privacy

Contents of today's lecture

Privacy:

Framework:

- Definitions.
- Privacy as a value.
- Public & private information.
- Data-protection considerations.

Issues:

- Surveillance.
- Information collection.
- Data use.
- Data transfer.
- Data merging & matching.
- Data mining.
- Security of data.

Measures:

- By law.
- By businesses.
- By individuals.

Lecturer: Damien Jade Duff.

Office: EEf 2316.

Office hour: <http://djduff.net/my-schedule>

The term paper



turkey internet law



The Times of Israel

[Turkey's Gul approves law tightening Internet controls](#)

Reuters - Feb 18, 2014 Share

ISTANBUL (Reuters) - **Turkish** President Abdullah Gul approved a new law tightening control of the **Internet** on Tuesday in a move bolstering ...

[Turkey's Gül approves tighter control of Internet](#)

International - [Today's Zaman](#) - Feb 18, 2014

[Explore in depth](#) (324 more articles)



[Turkish police clash with protesters over Internet restriction laws](#)

[New York Daily News](#) - Feb 22, 2014 Share

Turkish riot police fired tear gas on Saturday to disperse thousands of demonstrators in central Istanbul protesting against what they see as ...

The term paper

- ♦ Read (about) the internet law.
 - ♦ <http://www.tbmm.gov.tr/kanunlar/k6518.html>
 - ♦ Choose one or more measures.
 - ♦ Analyse measure or possible consequences in terms of *ethical theories or principles*.
 - ♦ You are the "practical ethicist".
-
- ♦ *"...make appropriate use of citations and references"*
 - ♦ For similar academic analyses try:
 - ♦ *ACM Digital Library* (dl.acm.org)
 - ♦ *EBSCO interdisciplinary academic database* (<http://search.ebscohost.com/>) .

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1 [Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona](#)

 [Thomas Haigh](#), [Charles W. Bachman](#)
January 2006 Oral History interviews

Publisher: ACM

Full text available:  [PDF](#) (974.87 KB)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 259, Downloads (Overall): 3001, Citation Count:

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during ...

2 [Privacy and ethical concerns in internet security](#)

 [Rebecca H. Rutherford](#), [James K. Rutherford](#)

October 2010 **SIGITE '10:** Proceedings of the 2010 ACM conference on Information technology education

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (396.38 KB)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 229, Downloads (Overall): 842, Citation Count:

This paper will deal with issues of privacy and ethical concerns in internet security. Security is defined as protecting a company or network from attack. Yet, the soft side of this attack deals with protecting the privacy of those clients, vendors and ...

Keywords: ethics, internet, privacy, security

ADVANCED SEARCH

 [Advanced Search](#)

Ethical issues involved in Internet law

- ♦ Cybercrime.
- ♦ Privacy.
- ♦ Copyright & patents.
- ♦ Intellectual property.
- ♦ Freedom of expression.
- ♦ Freedom of information.
- ♦ Security & abuse.

...

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Privacy: A history of definitions

- ♦ Accessibility Privacy.
 - ♦ Being left alone.
 - ♦ e.g. no body searches.
- ♦ Decisional Privacy.
 - ♦ Making own decisions.
 - ♦ e.g. "right to die".
- ♦ Informational Privacy.
 - ♦ Accessing and controlling personal information.
 - ♦ e.g. private political views.

Earlier

Later



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When privacy may be bad

- ♦ Anonymity:
 - ♦ Hate speech.
 - ♦ Defamation.
- ♦ Opportunity for crime.
- ♦ Lack of openness (cf. deontological ethics).
- ♦ Obstacle to coordination.

Privacy as a value

- ♦ Not an intrinsic value, but "Necessary Condition"? (Fried, 1990)
 - + Security (Moor, 1998).
 - + Trust, friendship.
 - + Autonomy/control.

Privacy as a social value

- ♦ Individual vs social interests dichotomy not helpful.
 - ♦ + Support normal social functioning.
 - ♦ + Defend against discrimination/persecution.
 - ♦ + Reduce concentration of power.
(information as power)

Privacy as a value: values change between times and groups

The Telegraph

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HOME » TECHNOLOGY » FACEBOOK

Facebook's Mark Zuckerberg says privacy is no longer a 'social norm'

Facebook founder Mark Zuckerberg has denounced privacy as a 'social norm' of the past as social networking's popularity continues to grow.

Target exactly the audience you want

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Facebook announced controversial changes to its privacy settings in December 2009 via its 'notifications' tab.

III FACEBOOK

Tech

**Eric Schmidt
(Google CEO,
2009):**

"If you have something that you don't want anyone to know, maybe you shouldn't be doing it in the first place."

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Public vs private personal information

	Public personal information	Private personal information
Main idea	Information revealed in a "public space".	Information kept away from public spaces.
Examples	City of residence. Workplace. Hair colour. Letterbox style.	Credit card number. Secret political views. Deviant thoughts. Income amount.

Blurred distinction:

- Public with respect to **who**? (e.g. relationship status, wealth level, home-workplace route).
- Collation (data merging, matching, mining, etc.).

Better to think about:

Who controls personal information.

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Data-protection considerations

Personal information about you.

- ♦ Can you:
 - ♦ Learn what data there is?
 - ♦ View the data?
 - ♦ Correct the data?
 - ♦ Ensure the accuracy of the data?
- ♦ 95/46/EC directive:
 - ♦ To what purpose is the data used?
 - ♦ Can data quality & safety be ensured?
 - ♦ Is the data sensitive?
 - ♦ Are you informed about its uses?
- ♦ Principle of Informed Consent:
 - ♦ I decide about my data.
 - ♦ First I need to know how it may be used.

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Surveillance



- ♦ Has always been an issue.
- ♦ Technology just got a lot better.
 - ♦ GPS.
 - ♦ Mobile phones.
 - ♦ Video cameras.
 - ♦ Automatic recognition (e.g. face).
 - ♦ Satellite, drones.
 - ♦ Computer monitoring.
 - ♦ Electronic transactions.

Surveillance technology improving



Feb 14, 2014 | Vote 0 0

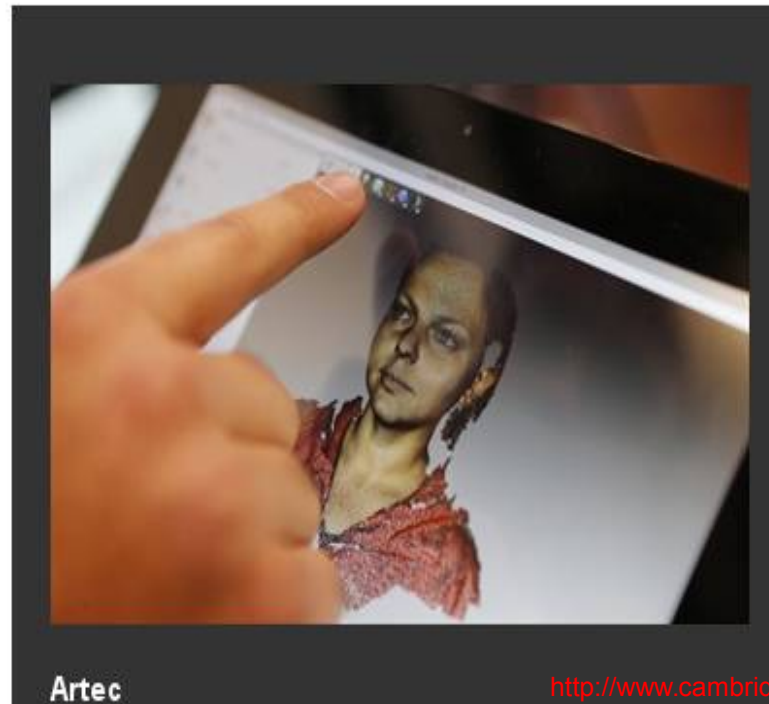
Facial recognition working at Sochi

Waterloo Region Record

By Heather Somerville

SAN JOSE, CALIF. — At the international airport in Sochi, Russia, the entry point for thousands of athletes, spectators and world leaders at the 2014 Winter Olympics, a state-of-the-art security system made by a Silicon Valley company is keeping watch.

Artec Group, a 3-D camera tech company founded in the valley by Russian engineers, has created facial recognition software that Sochi officials are using to improve airport security during the Games. The technology, which uses a 3-D camera to identify a person using their



Artec

- ♦ Face recognition technology can find individuals in crowds.
- ♦ In use in airports (2014).

Surveillance technology improving

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HOMES

Biometric scanners that can identify people are poised for big growth in building security

Systems that can recognize by face, voice and build are rapidly being adopted by developers, and promise big financial savings as well

Comments (15)

BY BY MATT CHABAN / NEW YORK DAILY NEWS

FRIDAY, FEBRUARY 21, 2014, 2:00 AM

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nydn.us/NfRr1O



Surveillance: it can enter your home



Home > Security > Privacy

News

Update: School district settles webcam spying suit for \$610,000

Lower Merion District was accused of snooping on students with school-issued laptop's webcam

By Jaikumar Vijayan

In February, Blake Robbins, a district high school student, and his parents, [filed a lawsuit against the school district](https://www.computerworld.com/s/article/9190722/Update_School_district_settles_webcam_spying_suit_for_610_000_) accusing it of spying on him in his home. The lawsuit charged Lower Merion with remotely activating the webcam on Robbins' laptop to take thousands of pictures of Blake and others members of his family, including some of Blake in his bedroom partially undressed, and some of him sleeping.

The lawsuit was filed after a school official accused Blake of selling drugs and taking pills based on a photograph captured by the school computer at his home. In court documents, lawyers for Blake accused Lower Merion

- ♦ School issued laptops.
- ♦ Used laptop webcams to secretly monitor students in their homes (2010).

Government surveillance

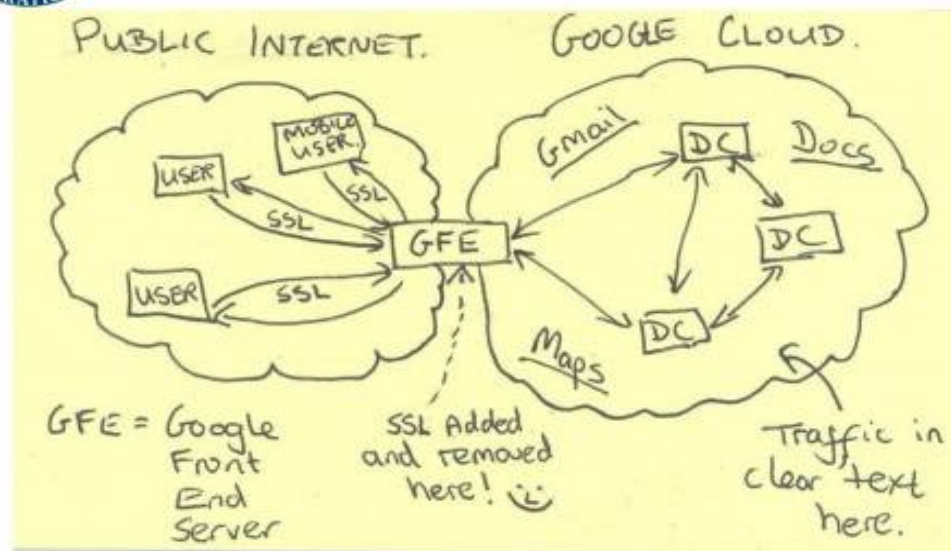
The Washington Post

NSA infiltrates links to Yahoo, Google data centers worldwide, Snowden documents say

TOP SECRET//SI//NOFORN



Current Efforts - Google



TOP SECRET//SI//NOFORN

In this slide from a National Security Agency presentation on "Google Cloud Exploitation," a sketch shows where the "Public Internet" meets the internal "Google Cloud" where user data resides. Two engineers close ties to Google exploded in profanity when they saw the drawing.

The National Security Agency has secretly broken into the main communications links that connect Yahoo and Google data centers around the world, according to documents obtained from former NSA contractor [Edward Snowden](#) and interviews with knowledgeable officials.

By tapping those links, the agency has positioned itself to collect at will from hundreds of millions of user accounts, many of them belonging to Americans. The NSA does not keep everything it collects, but it keeps a lot.

Edward Snowden's Testimony to the European Parliament Committee on Civil Liberties, Justice and Home Affairs

On NSA surveillance systems: "I know the good and the bad of these systems, and what they can and cannot do, and I am telling you that without getting out of my chair, I could have read the private communications of any member of this committee, as well as any ordinary citizen. I swear under penalty of perjury that this is true."

Government Surveillance

theguardian

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News > World news > The NSA files

Optic Nerve: millions of Yahoo webcam images intercepted by GCHQ

- 1.8m users targeted by UK agency in six-month period alone
- Optic Nerve program collected Yahoo webcam images in bulk
- Yahoo: 'A whole new level of violation of our users' privacy'
- Material included large quantity of sexually explicit images

Spencer Ackerman and **James Ball**

The Guardian, Friday 28 February 2014

<http://www.theguardian.com/world/2014/feb/27/gchq-nsa-webcam-images-internet-yahoo>

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Turkey eavesdrops on almost 2,500 people, mostly foreigners

Published time: February 23, 2014 03:10

[Get short URL](#)



Turkey's deputy prime minister has revealed that the country's national spy agency is keeping tabs on almost 2,500 people, mostly foreigners. The news comes amid a parliamentary debate over expanding the bureau's espionage powers.

Tags

[Court](#), [Intelligence](#), [Internet](#), [Law](#), [Politics](#), [Turkey](#)

"As of today, National Intelligence Organization (MIT) eavesdrops on 2,473 people. More than half of them are foreigners," Deputy Prime Minister Besir Atalay said, as quoted by AFP.

Sub Categories: » [HOMEPAGE](#) / [TURKEY](#) / [LOCAL](#)

Half million wiretapped in Turkey in last two years: Communications body

ANKARA - Anadolu Agency

More than half a million people have been wiretapped over the past two years in figures that the country's defense has declared 'out of hand,' according to Turkey's Telecommunications Directorate

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Turkey's telecommunication authority TİB revealed that more than half a million people were wiretapped in various probes over the last two years. DHA photo

according to the report. Over the two years, some 1.1 million phone calls of 509,516 people were tapped.

Turkey's telecommunication authority has revealed that more than half a million people were wiretapped in the last two years.

Turkey's Telecommunications Directorate (TİB) has been preparing a report on wiretapping amid reports that calls of several politicians, journalists and businessmen had been tapped.

A total of 257,545 people were wiretapped in 2012, and 252,062 people were wiretapped in 2013,

Companies do surveillance too

- ◆ iPhone sending location information home.
- ◆ Android and WindowsPhone also "phoning home" with locations.

EDITION: INTERNATIONAL | U.S. | MÉXICO | ARABIC
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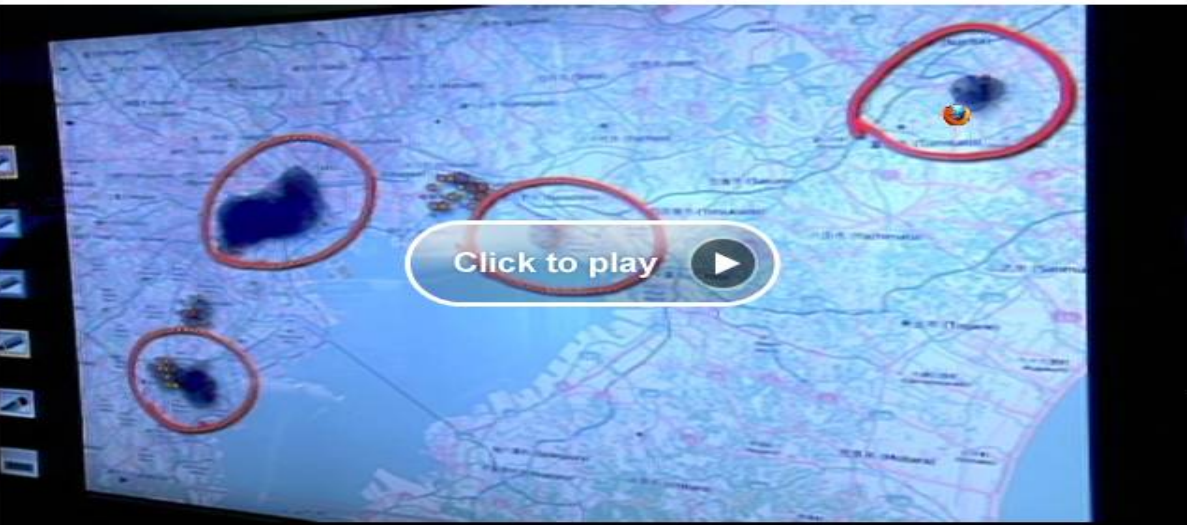
CNN

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Breaking news NATO, OSCE efforts to resolve the Ukraine standoff "are no dialogue, Russian FM Sergey Lavrov says.

Report: iPhones secretly track their users' locations

By **John D. Sutter**, CNN
April 21, 2011 -- Updated 1352 GMT (2152 HKT) | Filed under: **Mobile**



CNN tracks producer's iPhone

STORY HIGHLIGHTS

- Apple iPhones and 3G iPads appear to log their users' locations

(CNN) -- Apple devices appear to be tracking their owners' locations and storing data about people's whereabouts without their knowledge, according to a report posted Wednesday on a site called iPhone Tracker.

<http://edition.cnn.com/2011/TECH/mobile/04/20/iphone.tracking/>

Surveillance: anyone can do it



Chips in Official IDs Raise Privacy Fears

Published July 11, 2009 / Associated Press



Climbing into his Volvo, outfitted with a Matrics antenna and a Motorola reader he'd bought on eBay for \$190, Chris Paget cruised the streets of San Francisco with this objective: To read the identity cards of strangers, wirelessly, without ever leaving his car.

It took him 20 minutes to strike hacker's gold.

Zippering past Fisherman's Wharf, his scanner detected, then downloaded to his laptop, the unique serial numbers of two pedestrians' electronic U.S. passport cards embedded with radio frequency identification, or RFID, tags. Within an hour, he'd "skimmed" the identifiers of four more of the new, microchipped PASS cards from a distance of 20 feet.

- RFID identity chips accessible by anyone nearby.
- Much unsecured data available.

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What should the rules be on data collection?

What institutions should be able to collect who's data?

Under what conditions?

Should they get permission? Inform individuals?

Global Government Surveillance Reform

The undersigned companies believe that it is time for the world's governments to address the practices and laws regulating government surveillance of individuals and access to their information.

While the undersigned companies understand that governments need to take action to protect their citizens' safety and security, we strongly believe that current laws and practices need to be reformed.

Consistent with established global norms of free expression and privacy and with the goals of ensuring that government law enforcement and intelligence efforts are rule-bound, narrowly tailored, transparent, and subject to oversight, we hereby call on governments to endorse the following principles and enact reforms that would put these principles into action.

The value of data collection for business

- ❖ Competitive advantage from information.
- ❖ Targeted ads, marketing.
- ❖ Automatically improving processes.

<http://pando.com/2013/12/16/googles-for-profit-surveillance-problem/>

<http://www.economist.com/node/15557431>





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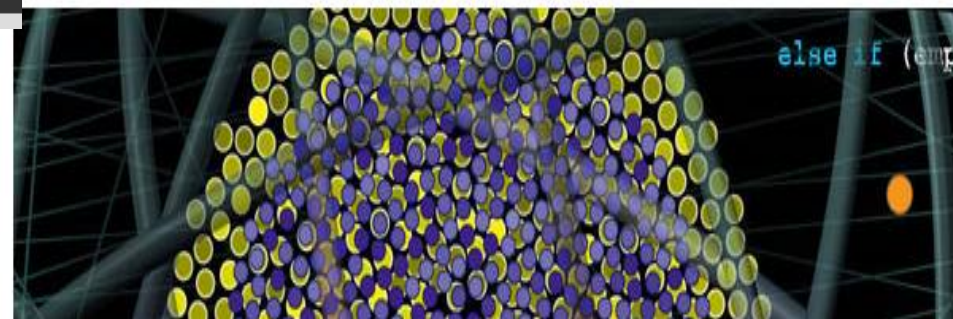
Special report: Managing information ▾

Clicking for gold

How internet companies profit from data on the web

Feb 25th 2010 | From the print edition


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<http://www.theglobeandmail.com/globe-debate/follow-your-data-from-your-phone-to-the-marketplace/article17056305/>

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LIFE AFTER PRIVACY

How Big Data profits from your personal information

STUART A. THOMPSON, SUSAN KRASHINSKY AND SHANE DINGMAN

The Globe and Mail

Published Monday, Feb. 24 2014, 7:04 PM EST

How internet surveillance works (example)

- ♦ Cookies.
- ♦ Flash cookies.
- ♦ Javascript.
- ♦ Bugs.
- ♦ IP address.
- ♦ Form information.
- ♦ HTTP headers.

Example

Google Analytics

- Serve cookies through many different sites.
- Learn your IP address.
- Can combine with google account.

"Data Monetisation" mainstream business



Telecom firms mine for gold in big data despite privacy concerns

BY **LEILA ABBOUD**

BARCELONA Sun Feb 23, 2014 10:10am GMT

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Big carriers like Telefonica, Verizon, Orange and Singapore's Starhub warn that they are only just starting to test the waters and pledge to market only anonymous crowd information to protect customers.

<http://uk.reuters.com/article/2014/02/23/uk-mobile-world-bigdata-idUKBREA1M09I20140223>



HOME » LATEST NEWS

Chinese Internet firms dig big data gold

Feb 19, 2014

by Xinhua writers Cheng Lu and Wang Wen

BEIJING, Feb. 19 (Xinhua) -- Chinese Internet companies have been exploring business opportunities based on big data analytics during the world's largest human migration.

Baidu, China's top search engine, launched a real-time migration map during the Spring Festival travel rush, which the Ministry of Transport estimates will witness 3.62 billion trips before it ends on Feb. 24.

The "Baidu Migrate" heat map gathers data from smartphones installed with Baidu Maps or other applications using Location Based Service (LBS) platforms, which receive 3.5 billion position requests every day in China, according to Baidu.

http://www.shanghaidaily.com/article/article_xinhua.aspx?id=201542

Anonymised data is not really anonymous

- ♦ **Latanya Sweeney**: 2000: 87% of Americans uniquely identifiable with 3 pieces of information.
- ♦ **Anonymised health insurance data used to identify people who released it .**
- ♦ **Anonymous AOL search logs: users identified from searches.**
- ♦ **Anonymised twitter logs: users identified via flickr links, twitter network.**
- ♦ **Anonymised netflix logs: user preferences matched to IMDB profiles.**
- ♦ **Many many more.**

<http://arstechnica.com/tech-policy/2009/03/pulling-back-the-curtain-on-anonymous-twitterers/>

http://news.cnet.com/2100-1030_3-6103098.html

<http://www.securityfocus.com/news/11497>



AOL's disturbing glimpse into users' lives

By Declan McCullagh
Staff Writer, CNET News



Pulling back the curtain on "anonymous" Twitterers

University of Texas researchers have shown that they can "de-anonymize" ...

by Nate Anderson - Apr 1 2009, 5:20am EEST



Researchers reverse Netflix anonymization

Robert Lemos, SecurityFocus 2007-12-04

Data collection example: Google street view



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Integrated Security

Trust your security to the security experts

CNET ▸ News ▸ Privacy Inc. ▸ Street View cars grabbed locations of phones, PCs

Street View cars grabbed locations of phones, PCs

scoop Google's Street View cars collected the locations of millions of laptops, cell phones, printers, and other Wi-Fi devices around the world, CNET has learned.



by Declan McCullagh | July 25, 2011 12:14 AM PDT



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Leading Innovation >>>



MUST READ: *SaaS puts the CMO in the driver's seat*

Topic: [Google](#)  [Discover](#)

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Google admits Street View cars collected e-mails, passwords

Summary: After analyzing the unencrypted WiFi payload data captured by its Street View cars, Google now admits that the system captured entire e-mails, URLs and even user passwords.



By Ryan Naraine for [Zero Day](#) | October 23, 2010 -- 16:00 GMT (09:00 PDT)

 Follow @ryanaraine



Data collection example: Facebook faces

The Telegraph

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HOME » TECHNOLOGY » FACEBOOK

Facebook defends using profile pictures for facial recognition

Facebook has defended its plans to use profile pictures to identify members using its controversial facial recognition technology.



- ♦ Opt-out:
 - ♦ Only applies to automatic tagging.
 - ♦ Face recognition still can happen.

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What should it be possible to do with this data?

- ♦ Will data be used for something other than original purpose?
- ♦ Who is allowed to access the data?
 - ♦ Technicians?
 - ♦ Managers?
 - ♦ Clerical workers?
- ♦ Who's data?

Opportunities to misuse data are many



- ♦ Australia's citizen database used for personal means by staff (2006).
- ♦ Including identity fraud.

Oz 'pseudo-ID card' database racked by identity fraud claims

19 sacked, 92 resigned

By [OUT-LAW.COM](#) • [Get more from this author](#)

Posted in [Music and Media](#), 28th August 2006 08:02 GMT

Australia's citizen database was routinely searched for personal reasons by government agency employees, some of whom have been sacked. Police are now investigating allegations of identity fraud resulting from the security breaches.

There were 790 security breaches at government agency Centrelink involving 600 staff. Staff were found to have inappropriately accessed databases containing citizens' information.

The situation has not improved in recent years



♦ UK Police using data to:

- ♦ Spy on family, friends.
- ♦ Spread rumours.
- ♦ Give names to media.
- ♦ ...

(2014)

Public records often available to other parties



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MOYERS MOMENTS

Look Who's Selling Your Voting Records

March 12, 2014

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Through her research, Angwin discovered that over 200 data brokers had information on her, in one of the “least transparent” industries in America. Of those brokers, about a dozen would let her view her personal information (and when she did, she found some major inaccuracies, such as the names of previous employers) and less than half allowed her to opt out. Some sites even required her to submit her driver's license number, social security information or pay a fee to complete the opt-out process.

<http://billmoyers.com/2014/03/12/look-whos-selling-your-voting-records/>

Computer Ethics (English)

Spring 2014

BLG412E

Week 4 & 5: Privacy

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- Definitions.
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- Surveillance.
- Information collection.
- Data use.
- Data transfer. ←
- Data merging & matching.
- Data mining.
- Security of data.

Measures:

- By law.
- By businesses.
- By individuals.

Lecturer: Damien Jade Duff.

Office: EEf 2316.

Office hour: <http://djduff.net/my-schedule>

To whom should it be possible to transfer data?

- ♦ Ad providers?
- ♦ Business partners?
- ♦ Police?
- ♦ State security institutions?
- ♦ Creditors?

- ♦ Should permission be sought?

Public institutions often provide personal data

INVESTIGATION DISCOVERY

Hollywood Crimes : Rebecca Schaeffer

Hollywood Crimes

- Marvin Gaye
- Phil Hartman
- Erik and Lyle Menendez
- Marilyn Monroe
- Ramon Novarro
- Rebecca Schaeffer
- Elizabeth Short
- Dorothy Stratten
- Thelma Todd
- Natalie Wood

The Dawn of Stalking: The Murder of Rebecca Schaeffer

Twenty-one-year-old fresh-faced beauty Rebecca Schaeffer was co-star of the popular 1980s sitcom *My Sister Sam*. Schaeffer quickly climbed the Hollywood ladder of success before a crazed fan, 19-year-old Robert Bardo, viciously accosted her. Bardo had been writing Schaeffer love letters for months. The actress was so thoughtful, she personally responded to each one of her fans, including Bardo.



On July 18, 1989, Schaeffer was prepared to meet director Francis Ford Coppola to audition for a role in *Godfather III*. Simultaneously, Bardo tracked down Schaeffer's home address and decided to pay her a visit in West Hollywood.

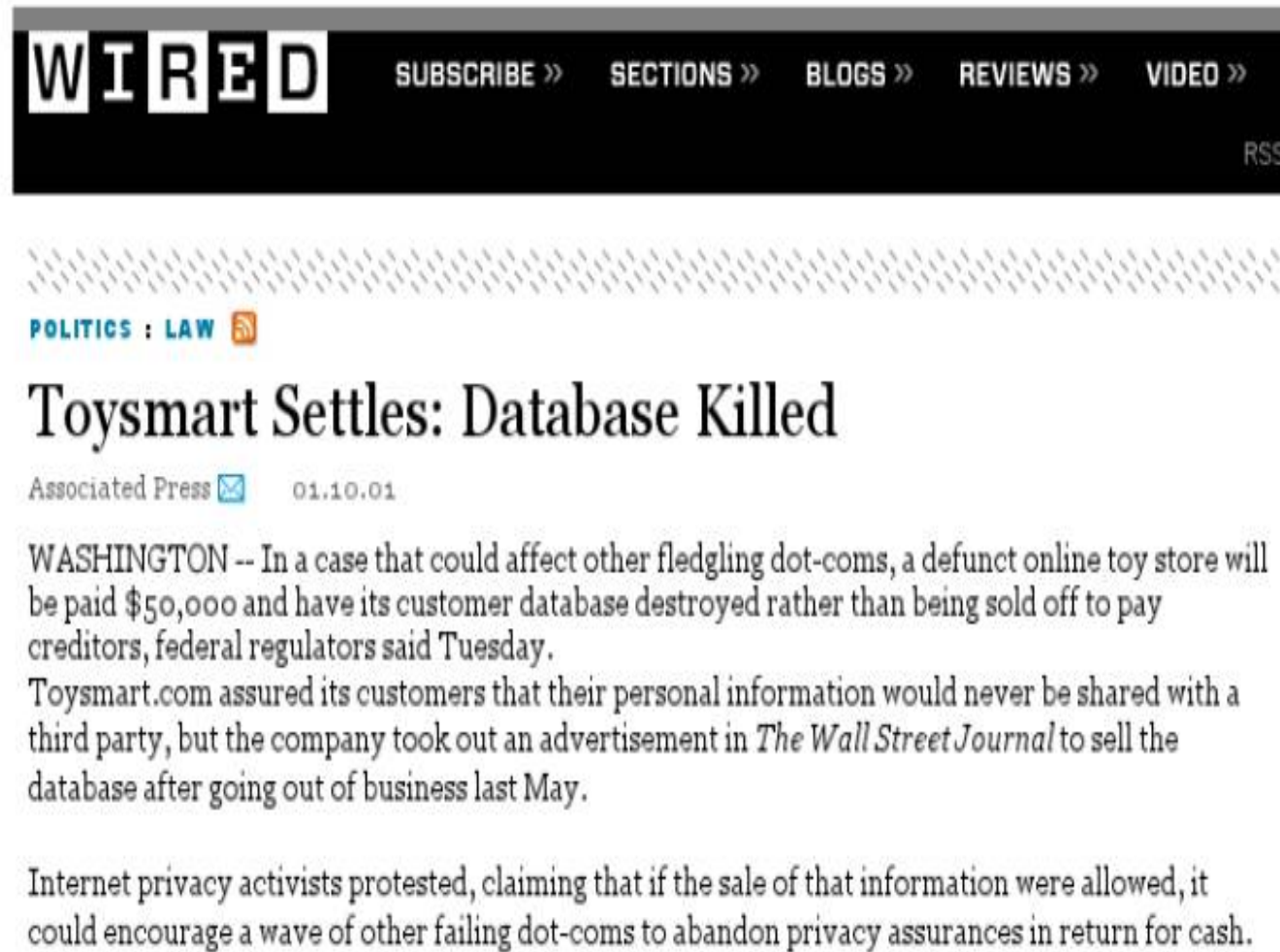
With his obligatory copy of *The Catcher in the Rye* in hand (the same book found in the possession of John Lennon's assassin Mark David Chapman), Bardo staked out Schaeffer's apartment building. He rang her direct intercom, but since it was broken, she came down to see who was there.

As Schaeffer opened the front door, Bardo plugged a single bullet into her chest and casually strolled off. The young actress died at the hands of her No. 1 fan.

It was learned later that Bardo obtained Schaeffer's address from a Tucson, Ariz., detective agency, which paid \$250 to retrieve the address from the California Department of Motor Vehicles.

- ♦ Murderer obtained address via car registration agency.
- ♦ Subsequently, "Driver's Privacy Protection Act (1994)".

Institutions change their policies / situations



The image is a screenshot of a Wired news article. At the top is a black navigation bar with the 'WIRED' logo in white, followed by links for 'SUBSCRIBE >>', 'SECTIONS >>', 'BLOGS >>', 'REVIEWS >>', and 'VIDEO >>'. An 'RSS' link is on the right. Below the navigation bar is a decorative line of small white dashes. The article category 'POLITICS : LAW' is shown in blue with a small orange icon. The headline 'Toysmart Settles: Database Killed' is in large black font. Below it, the source 'Associated Press' and date '01.10.01' are listed. The main text of the article is in a smaller black font, starting with 'WASHINGTON -- In a case that could affect other fledgling dot-coms, a defunct online toy store will be paid \$50,000 and have its customer database destroyed rather than being sold off to pay creditors, federal regulators said Tuesday. Toysmart.com assured its customers that their personal information would never be shared with a third party, but the company took out an advertisement in *The Wall Street Journal* to sell the database after going out of business last May. Internet privacy activists protested, claiming that if the sale of that information were allowed, it could encourage a wave of other failing dot-coms to abandon privacy assurances in return for cash.'

WIRED SUBSCRIBE >> SECTIONS >> BLOGS >> REVIEWS >> VIDEO >> RSS

POLITICS : LAW

Toysmart Settles: Database Killed

Associated Press 01.10.01

WASHINGTON -- In a case that could affect other fledgling dot-coms, a defunct online toy store will be paid \$50,000 and have its customer database destroyed rather than being sold off to pay creditors, federal regulators said Tuesday.

Toysmart.com assured its customers that their personal information would never be shared with a third party, but the company took out an advertisement in *The Wall Street Journal* to sell the database after going out of business last May.

Internet privacy activists protested, claiming that if the sale of that information were allowed, it could encourage a wave of other failing dot-coms to abandon privacy assurances in return for cash.

- ♦ Company promised to keep customer data confidential.
- ♦ Went bankrupt, tried to sell data to pay debts (2001).

<http://www.wired.com/politics/law/news/2001/01/41102>

Institutions change their policies / situations



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While Facebook & Twitter Sit on Sidelines, MySpace Jumps Into Bulk User Data Sales

By **Marshall Kirkpatrick** / March 12, 2010 10:30 AM / [View Comments](#)

[Tweet](#)



MySpace has taken a bold step and allowed a large quantity of bulk user data to be put up for sale on startup data marketplace [InfoChimps](#). Data offered includes [user playlists](#), [mood updates](#), [mobile updates](#), [photos](#), [vents](#), [reviews](#), [blog posts](#), [names](#) and [zipcodes](#). Friend lists are not included. Remember, Facebook and Twitter may be the name of the game these days in tech circles, but [MySpace still sees 1 billion user status updates posted every month](#). Those updates will now be available for bulk analysis.

This user data is intended for crunching by everyone from academic researchers to music industry information scientists. Will people buy the data and make interesting use of it? Will MySpace users be ok with that? Is this something Facebook and Twitter ought to do? The MySpace announcement raises a number of interesting questions.

- ♦ Myspace monetising data by selling it (2010).
- ♦ Names, locations, writings, photos, likes,...

https://www.readwriteweb.com/archives/myspace_bulk_data.php

Institutions reserve their rights to do new things



U.S. Politics on Facebo...
Get Notes via RSS

Politico, Facebook Team Up to Measure GOP Candidate Buzz

by U.S. Politics on Facebook on Thursday, January 12, 2012 at 7:16am

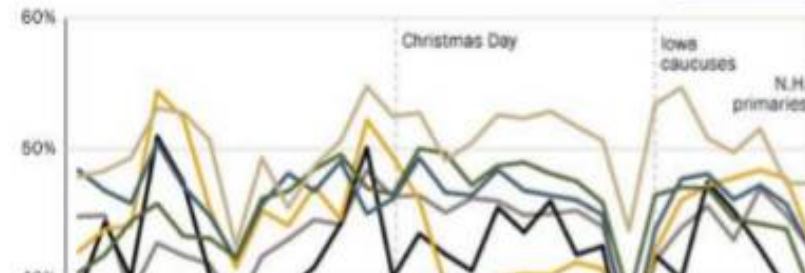
WASHINGTON, DC - January 12, 2012 - POLITICO is joining forces with Facebook to offer its readers an exclusive look at the conversation taking place on the social networking site about the Republican presidential candidates ahead of South Carolina's crucial primary on Jan. 21.

Facebook will measure mentions of the candidates in U.S. users' posts and comments as well as assess positive and negative sentiments expressed about them. Facebook's data team will use automated software tools frequently used by researchers to infer sentiment from text. This aggregate information will be exclusively available on POLITICO with analysis by its journalists. The first set of data can be found [here](#).

NEGATIVE FACEBOOK MENTIONS BY CANDIDATE

Facebook measured the volume of its users' status updates, postings and comments over the last month to gauge the amount of social traffic around the Republican presidential contenders.

In partnership with
facebook



- Facebook shares data with partners.
- Analysis of presidential candidate popularity (2012).

Data transfer: business to government

Tech companies say tens of thousands of user accounts were subject to national security spying

BY **TIMOTHY B. LEE**  February 3 at 3:51 pm

Several of the nation's leading technology companies released new data on Monday detailing the extent of NSA surveillance of their users. Numbers released by Yahoo, Google, Microsoft, LinkedIn and Facebook show that in the first six months of 2013, the NSA submitted requests for private information from at least 59,000 user accounts.

Of the five companies, Yahoo appears to have been the favorite of NSA analysts. The Sunnyvale company received national security requests for "content" from at least 30,000 users. Microsoft fielded requests affecting at least 15,000 accounts, while Google requests affect 9,000 user accounts. Facebook said that its requests affect at least 5000 users. LinkedIn said it received fewer than 250 national security requests.

The companies may also have received requests for "non-content" information, such as data about the times, senders, and recipients of e-mail messages. Yahoo, Google, Facebook, and Microsoft all said they received fewer than 1,000 of these in the first half of 2013.



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Merged data valuable for businesses



- ❖ Online ad company planned to combine online & offline data.
- ❖ Names to be connected to web-site activity.
- ❖ Subsequently bought by google.

<http://news.cnet.com/2100-1023-237532.html>

http://www.businessweek.com/magazine/content/11_12/b4220038620504.htm

Merged data valuable for businesses



Clare O'Connor, Forbes Staff

The consumer economy: retail, and the people reinventing it.

+ Follow (1,045)

Follow 4.7k

RETAIL | 3/11/2014 @ 3:43PM | 1,918 views

Twitter Goes To The Mall: Social Giant Will Use Big Data To See Where You Shop

+ Comment Now + Follow Comments

Twitter's Colorado-based marketing company Datalogix has access to rich databases of your personal information shared with them by 1,500 retailers, mostly through customer loyalty program (think a My Starbucks Rewards card or Walgreens' Balance Rewards) or mail-order sales.

Twitter provides Datalogix with a list of email addresses of all users who've seen a Promoted Tweet. Datalogix then cross-references their database, matching users who've bought a bathing suit at the Gap in the 30 days following that tweet ad.

1. Twitter tweets + retailer loyalty programs combined via (hashed) emails.
2. Profit.

Home devices now internet connected: data can be used

GIGAOM EVENTS RESEARCH JOBS

APPLE CLEANTECH CLOUD DATA EUROPE MEDIA MOBILE

google / nest labs / tony fadell

Google to acquire connected home device maker Nest for \$3.2B

by Jeff John Roberts JAN. 13, 2014 - 1:11 PM PDT

Google announced on Monday that it's in the process of acquiring Nest Labs, a home-automation company known for its digital thermostats and smoke alarms. The proposed purchase for \$3.2 billion, which is to close in coming months, will give the Silicon Valley giant one of the hottest names in energy-management technology and product design, and comes at a time when Google is also expanding its presence in robotics, energy and internet-of-things (IoT) technology.

The search giant announced the news in a [blog post](#):

Nest's mission is to reinvent unloved but important devices in the home such as thermostats and smoke alarms. Since its launch in 2011, the Nest Learning

Shaw) Connect Expand ▾

ON TV: Bake With Anna Olson

Global NEWS

NATIONAL LOCALS WATCH

THE INTERNET OF THINGS March 4, 2014 8:40 pm

Internet of Things has potential but raises security, privacy issues

By James Armstrong Global News

Comments Facebook 18 Twitter 37 Google+ Email Print ...



The Internet of Things: Challenges

- ♦ Personal information:
 - ♦ Time spent in home.
 - ♦ House temperature.
 - ♦ Video monitoring.
 - ♦ Heart rate!
 - ...
- ♦ All mixed up in cloud with emails, browsing history, etc.

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Data-mining: Whose data?

SILICON VALLEY BUSINESS JOURNAL

Class-action Gmail lawsuit seeks trillions



Eric Van Susteren

Digital Producer-
Silicon Valley Business Journal
Email | Twitter

Plaintiffs in a class-action lawsuit against Google Inc. want the company to pay \$100 per day to each of the email users whose accounts were allegedly improperly scanned by the company over a 5-year period.

The case would seek damages for anyone who sent or received a message from Google's Gmail during that time, meaning Google would have to pay trillions in damages based on the plaintiffs' claims, according to the San Francisco Chronicle.



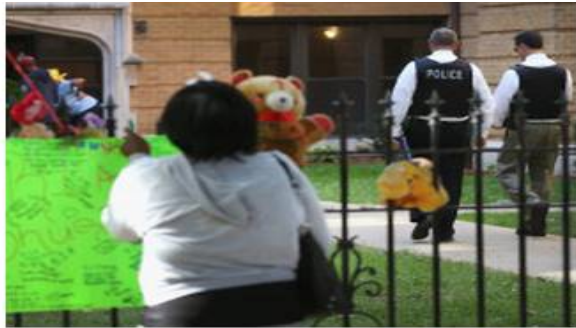
- ♦ Gmail scans users' emails for content.
- ♦ People who send you an email did not opt-in.
- ♦ Legal case hinges on data storage vs. wiretap.

Datamining → profiling

Chicago's Controversial New Police Program Prompts Fears Of Racial Profiling

The Huffington Post | by Joseph Erbentraut

Posted: 02/25/2014 6:25 pm EST | Updated: 02/25/2014 6:59 pm EST



A controversial new policing strategy being touted by Chicago's top cop for helping reduce gang violence is raising questions over its possible racist implications.

On Tuesday, Chicago Police Superintendent Garry McCarthy held a news conference to discuss his department's pilot program which, as McCarthy describes it, involves officers

visiting the homes of individuals they identify as likely victims or perpetrators of crime **almost immediately on the heels of violence erupting in their neighborhoods.**

Those visited by officers as part of the program, which has been deployed so far in six predominantly black police districts on the city's West and South Sides, are **offered social services** such as job training to help them avoid a life of crime, McCarthy said Tuesday, according to NBC Chicago.

- ♦ Datamining algorithm used to predict likely criminals.
- ♦ These are added to a "heat list".
- ♦ Issues:
 - ♦ Lack of transparency
 - ♦ Race focus.
 - ♦ Justification of stereotypes.
 - ♦ Stigmatisation.
 - ♦ Data used already possibly skewed by prejudice (vicious cycle).

Each of the individuals visited appear on a "heat list" compiled by the police department. The list is part of a department-wide strategy that relies on a "rank-order list of potential victims and subjects with the greatest propensity for violence" based on data crunched using an algorithm developed by an Illinois Institute of Technology engineer.

Data-mining: a thought experiment

- ♦ You apply for credit and give your details to the bank.
- ♦ Their system mines those records for risk.
- ♦ System finds that İTÜ graduates with $GPA > 2.5$ and $GPA < 3.5$ who start businesses are 35% likely to default on default on business loans.
- ♦ Happy now?

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It just takes one mistake to lose data

ANONYMISATION

- Internet Service Provider accidentally posted search histories of 650,000 people.



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CNET > News > Corporate & legal

August 7, 2006 8:05 PM PDT

AOL's disturbing glimpse into users' lives

By Declan McCullagh
Staff Writer, CNET News

Related Stories

- AOL apologizes for release of user search data
August 7, 2006
- Google, feds face off over search records

AOL's publication of the search histories of more than 650,000 of its users has yielded more than just one of the year's bigger privacy scandals.

The 21 million search queries also have exposed an innumerable number of life stories ranging from the mundane to the illicit and bizarre.

For its part, AOL has apologized for a researcher's disclosure of the massive database and has yanked the file from its Web site. It was too late: The database already had been mirrored.



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News, cases, companies, firms

News Rankings Jobs Cases Tracking

AOL's \$5M Settlement OK'd In Consumer Data Release Suit

By David McAfee 0 Comments Share us on: [in](#) [f](#) [t](#)

Law360, Los Angeles (May 28, 2013, 8:19 PM ET) -- A Virginia federal judge on Friday signed off on a \$5 million settlement between AOL Inc. and a class of more than 650,000 AOL members whose search queries and screen names the company made available for download.

AOL agreed in December to settle the dispute with the class, which includes all U.S. residents whose Internet search queries were made available for download in 2006. The settlement allows for payments between \$50 and \$100 for each class member and also stipulates that AOL will pay additional costs on top of the fund designated for payments to class members, including costs of notifying the class and attorneys' fees, according to court documents.

The biggest institutions can lose data

theguardian

News | Sport | Comment | Culture | Business | Money | Life & style

News > Politics

3.30pm GMT update

Brown apologises for data blunder

Deborah Summers, politics editor, and Allegra Stratton
guardian.co.uk, Wednesday 21 November 2007 15:53 GMT



Gordon Brown at prime minister's question time on November 21 2007. Photograph: PA Wire

The government has apologised to the country for the loss of two CDs containing the personal information of 25 million people. Gordon Brown, the prime minister, today faced down loud barracking and made an official apology for the loss of the discs. The CDs are still missing.

British
government lost
CDs containing
child benefit
records of 25
million people
(2007).

Data can be intentionally released



- ♦ Italian government published income and tax details of every citizen.
- ♦ They did it on purpose.
- ♦ Later site was closed.

Not all of it just happens overseas

OFFICE OF INADEQUATE SECURITY

YOUR INFO, THEIR SCREW-UPS.

[Home](#)[About](#)[Breach Laws](#)[Privacy Policy](#)

Feb
29
2012

Redhack hits Ankara police website

 Breach Incidents, Government Sector, Hack, Non-U.S.

Another law enforcement site, this one in Turkey, hit. ANF reports:

“

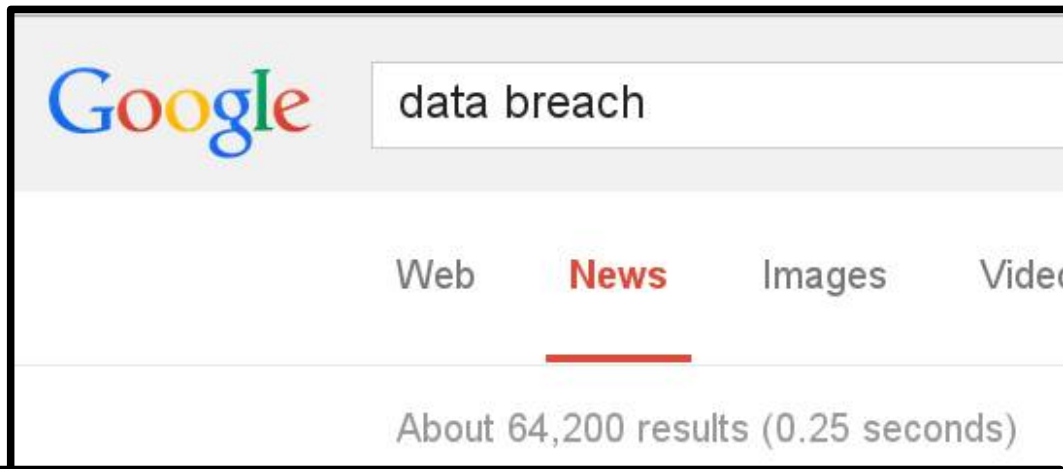
The website of the police headquarter in Ankara has been hacked by Redhack in the organization of 'AntiSec' formation. Panicked after the attack, the police shut down all their servers, writes the Redhack site, but they could not prevent Redhack from getting the files.

- ▶ Hacker group took and published files from Ankara police, containing personal data of informants.

<http://www.databreaches.net/redhack-hits-ankara-police-website/>

<http://www.ibtimes.co.uk/redhack-hackers-turkey-police-informants-anonymous-363377>

Data breaches happen a lot (March 11 2014)



- ♦ Every day new (big) data breaches are reported in the news.

[Target's chief information officer is stepping down in wake of data ...](#)

[Washington Post](#) - Mar 5, 2014 [Share](#)

[Loyaltybuild reopens for business after huge data breach](#)

[Irish Times](#) - 15 hours ago [Share](#)

[UNI Still Searching for Answers After Possible Data Breach](#)

[KCRG](#) - Mar 11, 2014

[University of Maryland, College Park data breach slightly smaller ...](#)

[Baltimore Sun \(blog\)](#) - by [Scott Dance](#) - 10 hours ago [Share](#)

[Assisted Living Concepts alerts employees to data breach](#)

[Chicago Tribune](#) - by [Becky Yerak](#) - 11 hours ago [Share](#)

[Seattle Archdiocese, FBI investigate data breach](#)

[KING5.com](#) - Mar 11, 2014 [Share](#)

[NHS England patient data 'uploaded to Google servers', Tory MP says](#)

[The Guardian](#) - by [Randeep Ramesh](#) - Mar 4, 2014 [Share](#)

Dr Sarah Wollaston MP tweeted: 'So HES [hospital episode statistics] data uploaded to 'google's immense army of servers', who consented to ...



Telegraph.c...

[NHS patient data made publicly available online](#)

[Wired.co.uk](#) - by [Olivia Solon](#) - Mar 3, 2014 [Share](#)

The shambles that is NHS England's Care.data patient **data sharing** scheme ... An HSCIC spokeswoman told **us**: "The link to this tool has been ... We are investigating urgently the source of the data used by Earthware UK and ...

[+ Show more](#)

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Privacy law in the USA: a mishmash

- ♦ Federal Trade Commission (FTC) Act (1914).
 - ♦ Unfair or deceptive practices.
- ♦ Video Privacy Protection Act (1988).
 - ♦ Applies to video sale.
- ♦ Health Insurance Portability and Accountability Act (1996).
 - ♦ Health related information.
- ♦ Driver's Privacy Protection Act (1994).
 - ♦ When government institutions can release information without consent (includes use by employers, private eyes...)
- ♦ Financial Services Modernization Act (1999).
 - ♦ Financial information security, consent measures vary.

<http://arstechnica.com/tech-policy/2008/04/suit-accuses-blockbuster-facebook-of-privacy-law-violations/> <http://uk.practicallaw.com/6-502-0467>



Suit accuses Blockbuster, Facebook of privacy law violations

A Texas woman has sued Blockbuster over its activities relating to Facebook's ...

by Jacqui Cheng - Apr 18 2008, 7:24pm EEST

Privacy law in the USA: FTC 's Code

- ♦ Code of Fair Information Practices (guideline):
 - ♦ Notice/awareness.
 - (but purpose can be vague – e.g. 3rd parties, data market)
 - (and frequently are vague)
 - ♦ Choice/consent.
 - ♦ Access/participation.
 - ♦ Integrity/security.
 - ♦ Enforcement/redress.
 - (this code is not enforced in the USA)

USA is pushing for a new law



The screenshot shows the top of the White House website. The header includes the text "the WHITE HOUSE PRESIDENT BARACK OBAMA" and a navigation bar with links: "BLOG", "PHOTOS & VIDEO", "BRIEFING ROOM", "ISSUES", and "the ADMINISTRATIVE". The White House seal is also visible. Below the navigation bar, there is a breadcrumb trail: "Home • Briefing Room • Statements & Releases". The main content area starts with "The White House" and "Office of the Press Secretary". To the right, there are social media sharing buttons for "E-Mail", "Tweet", "Share", and a plus sign. Below this, the date "February 23, 2012" is displayed. The headline of the press release is "We Can't Wait: Obama Administration Unveils Blueprint for a 'Privacy Bill of Rights' to Protect Consumers Online". Below the headline, there is a sub-headline: "Internet Advertising Networks Announces Commitment to 'Do-Not-Track' Technology to Allow Consumers to Control Online Tracking". The main body of the text begins with "WASHINGTON, DC – The Obama Administration today unveiled a 'Consumer Privacy Bill of Rights' as part of a comprehensive blueprint to improve consumers' privacy protections and ensure that the Internet remains an engine for innovation and economic growth. The blueprint will guide efforts to give users more control over how their personal information is used on the Internet and to help businesses maintain consumer trust and grow in the rapidly changing digital environment. At the request of the White House, the Commerce Department will begin convening companies, privacy advocates and other stakeholders to develop and implement enforceable privacy policies based on the Consumer Privacy Bill of Rights."

the WHITE HOUSE PRESIDENT BARACK OBAMA

★★★★★ THE WHITE HOUSE WASHINGTON ★★★★★

the ADMINISTRATIVE

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February 23, 2012

We Can't Wait: Obama Administration Unveils Blueprint for a "Privacy Bill of Rights" to Protect Consumers Online

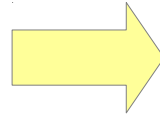
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EU's new data protection law (2014)

95/46/EC directive (principles):

- ♦ To what purpose is the data used?
- ♦ Can data quality & safety be ensured?
- ♦ Is the data sensitive?
- ♦ Are you informed about its uses?



New law:

- ♦ Big fines for misuse, neglect.
- ♦ Right to be forgotten.
- ♦ Explicit consent.
- ♦ Individual access to data.
- ♦ Countries responsible for policing.

COMPUTERWORLD

– it-nyheter døgnet rundt

IDG – verdens største mediehus innen it

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IDG News Service >

Europe approves new data protection law, tech industry reps dismayed

o Jennifer Baker

12.03.2014 kl 15:07 | IDG News Service\Brussels Bureau

g+1 0

Tweet 1

The right to data protection was underlined by European politicians on Wednesday as the European Parliament voted by a huge majority in favour of new laws safeguarding citizens rights.

<http://news.idg.no/cw/art.cfm?id=23A81939-E3C1-BC3B-AEE6FD90BEDAE7>

US/EU data-sharing

EU/US data sharing agreements exist (troubled).

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EUROPEAN AFFAIRS Brussels bureau

European Parliament calls for suspension of US data-sharing

12/03 17:50 CET



MEPs have threatened to block a free trade deal between the US and the EU if Washington fails to stop its mass spying activities.

The call came in a non-binding European Parliament resolution that follows a six-month inquiry, which took testimony from fugitive whistleblower Edward Snowden.

BBC

News Sport Weather Capital

NEWS

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Page last updated at 13:59 GMT, Thursday, 11 February 2010

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European Swift bank data ban angers US

The European Parliament has blocked a key agreement that allows the United States to monitor Europeans' bank transactions - angering Washington.

The US called the decision a "setback for EU-US counter-terror co-operation".

The vote was a rebuff to intensive US lobbying for EU help in counter-terrorism investigations.



GETTY IMAGES

Tracking funding has been a priority for the US since 9/11

INSIDE EUROPE

INSIDE EUROPE

LATEST NEWS

Barroso backs

LISBON TREATY

Q&A: The List

Q&A: EU Extension

UK AND EUROPE

Data protection law in Turkey

- ♦ Constitution/anayasa (1982):
 - ♦ Respect for family and private life (exceptions for law).
 - ♦ Right to request data protection.
 - ♦ Notice, access, consent, purpose-consistent.
 - ♦ Secrecy of communication fundamental.

Data protection law in Turkey

- ♦ Law on the Right to Information/Bilgi Edinme Hakkı Yasası (2003/2004):
 - ♦ Access to information held by public institutions.
 - ♦ Restrictions on access to private/commercially sensitive information.

Data protection law in Turkey

- ♦ Civil Law/Medeni Kanunu (2002):
 - ♦ Compensation for privacy violations.
- ♦ Criminal Code/Ceza Kanunu (2004):
 - ♦ Unlawful recording of sensitive, personal data: prison.
 - ♦ Keeping data beyond legal limit: prison.
- ♦ Also:
 - ♦ Labour Law/İş Kanunu.
 - (confidentiality of employee data).
 - ♦ Banking Law/Bankacılık Kanunu.
 - ♦ (confidentiality of customer data).
 - ♦ Medical Deontology Decree/Tıbbi Deontoloji Tüzüğü (1960).
 - ♦ (confidentiality of patient data).
 - ♦ Bank Cards and Credit Cards Law/Banka Kartları ve Kredi Kartları Kanunu.
 - ♦ (don't keep credit card data)

Computer Ethics (English)

Spring 2014

BLG412E

Week 4 & 5: Privacy

Contents of today's lecture

Privacy:

Framework:

- Definitions.
- Privacy as a value.
- Public & private information.
- Data-protection considerations.

Issues:

- Surveillance.
- Information collection.
- Data use.
- Data transfer.
- Data merging & matching.
- Data mining.
- Security of data.

Measures:

- By law.
- By businesses. ←
- By individuals.

Lecturer: Damien Jade Duff.

Office: EEf 2316.

Office hour: <http://djduff.net/my-schedule>

Business self-regulation

- ♦ Businesses promote self-regulation.
- ♦ General Code:
 - ♦ Data collection purpose should be clear.
 - ♦ No unnecessary collection.
 - ♦ Don't re-use for other purposes.
 - ♦ Without permission, don't transfer.
 - ♦ Opt-out better vs. opt-in.
 - ♦ Do-not-track in HTTP protocol.
- ♦ Does this work in practice?

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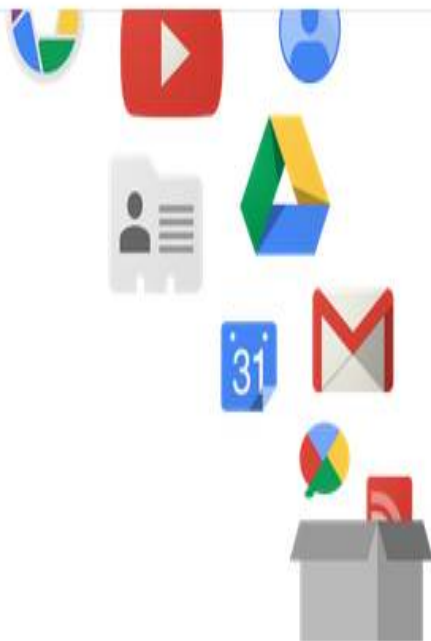
35-44

Based on your Google profile ?

Your account, your data. Download a copy.

Customize an archive with your data from Google products.

Create an archive



Supporting 17 products and counting...



Bookmarks



Contacts



Profile



Google+ Stream



Blogger



Google Photos



Mail



Drive



Hangouts



+1s



Messenger



Google Code Project Hosting



Calendar



Voice



Google+ Circles



Google+ Pages



YouTube

Business

self-regulation: Google

- ♦ Google+'s real-name policy.
- ♦ Privacy policy wording under attack:
 - ♦ Vague & self-serving.
 - ♦ Legally problematic.

The Atlantic

Reading the Privacy Policies You Encounter in a Year Would Take 76 Work Days

ALEXIS C. MADRIGAL | MAR 1 2012, 2:25 PM ET

347

One simple answer to our privacy problems would be if everyone became maximally informed about how much data was being kept and sold about them. Logically, to do so, you'd have to read all the privacy policies on the websites you visit. A few years ago, two researchers, both then at Carnegie Mellon, [decided to calculate how much time it would take](#) to actually read every privacy policy you should.

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486

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The Telegraph

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Young will have to change names to escape 'cyber past' warns Google's Eric Schmidt

The private lives of young people are now so well documented on the internet that many will have to change their names on reaching adulthood, Google's CEO has claimed.

http://www.huffingtonpost.com/2012/01/23/google-plus-real-names-policy_n_1224970.html
http://www.theregister.co.uk/2012/03/06/why_google_privacy_policy_is_so_difficult_to_follow/
<http://www.theatlantic.com/technology/archive/2012/03/reading-the-privacy-policies-you-encounter-in-a-year-would-take-76-work-days/253851/>
<http://www.telegraph.co.uk/technology/google/7951269/Young-will-have-to-change-names-to-escape-cyber-past-warns-Google-Eric-Schmidt.html>

Business self-regulation: Facebook

- ♦ Facebook's policy:
 - ♦ Closed account information retained.
 - ♦ Default settings increasingly open.
 - ♦ Privacy model continually changing.
 - ♦ Opt-out model a problem? Necessary for profit?

TECHNOLOGY

Facebook Deal on Privacy The New York Times

By VINDU GOEL FEB. 13, 2014

✉ EMAIL

f FACEBOOK

🐦 TWITTER

📁 SAVE

➦ MORE

SAN FRANCISCO — Despite a class-action settlement in August that was supposed to ensure that [Facebook](#) users clearly consent to their comments, images and “likes” being used in ads, it has been business as usual on the service.

If you are among Facebook’s 1.2 billion users, the company says, you are automatically consenting to such social ads. Opting out is impossible for some ads, and for others, [the control](#) to stop them is buried deep within the service’s privacy settings.

<http://mattmckeeon.com/facebook-privacy/>

http://www.nytimes.com/2014/02/13/technology/facebook-deal-on-privacy-is-under-attack.html?_r=0

http://redtape.nbcnews.com/_news/2012/03/06/10585353-govt-agencies-colleges-demand-applicants-facebook-passwords

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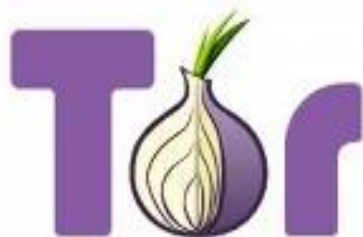
Privacy protection measures

- ♦ If governments/business are not solution?
 - ♦ Individual measures.
 - ♦ Protect your own privacy.
 - ♦ Contribute to the privacy of others.
 - ♦ Technology development.
 - ♦ Research institutes.
 - ♦ Tools to search out privacy violations.
 - ♦ Encryption & peer-to-peer tools and alternatives.
 - ♦ You're an engineer!!

Privacy protection measures

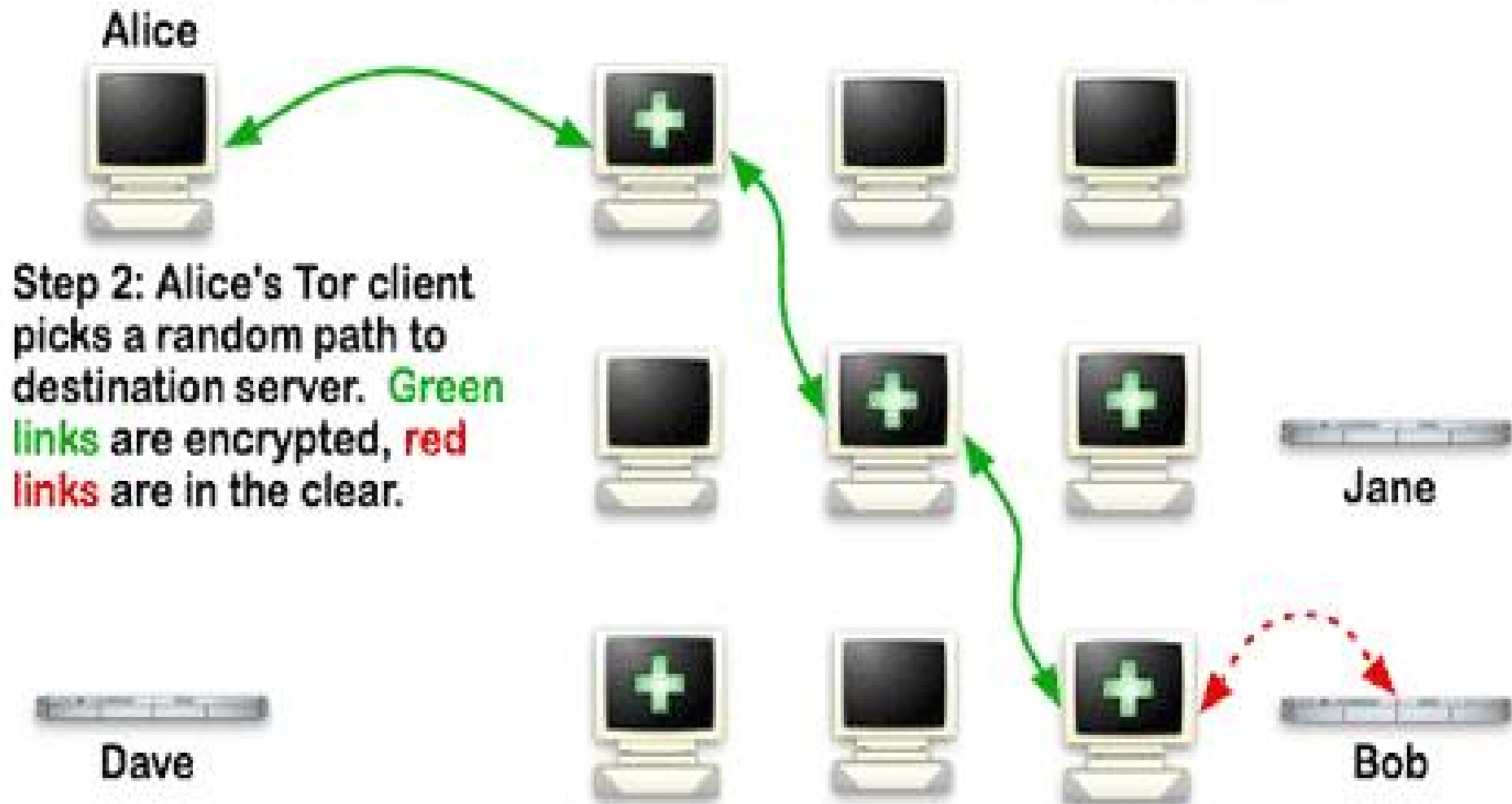
- ♦ Web privacy.
 - ♦ Browser options:
 - ♦ SSL.
 - ♦ Disable cookies.
 - ♦ Browser add-ons:
 - ♦ NoScript.
 - ♦ Adblock+.
 - ♦ Ghostery.
 - ♦ Other tools:
 - ♦ TOR-type tools.
 - ♦ Proxies, VPNs, VPSs.
 - ♦ Password software.
 - ♦ Opt-out from everything.

Ethics and TOR



- ♦ Your internet requests routed through random other computers on TOR network.
- ♦ Random other computers on TOR network route their requests through your computer.
- ♦ You are anonymous, private (not 100%).
- ♦ You are helping strangers be anonymous, private.
 - ♦ What if they commit a crime?

How Tor Works: 2



Privacy protection measures

- ♦ Personal privacy:
 - ♦ Don't give unnecessary information.
- ♦ Privacy of others.
 - ♦ Data noise.
 - ♦ Switching cards/accounts/etc.
 - ♦ Emacs M-x spook
 - ♦ TOR-type tools.
 - ♦ Pointless?
 - ♦ Lobby: government, businesses, individuals.

Privacy protection measures



Free wi-fi hotspots pose data risk, Europol warns

By Dan Simmons
Click presenter



Sensitive information should not be sent over public wi-fi hotspots, to avoid hackers stealing it, Europe's top cybercrime police officer has warned.

Troels Oerting, head of Europol's cybercrime centre, told BBC Click people should send personal data only across networks they trusted.

He said the warning was motivated by the growing number of attacks being carried out via public wi-fi.

Europol is helping a number of countries after such attacks, he said.

Stolen data

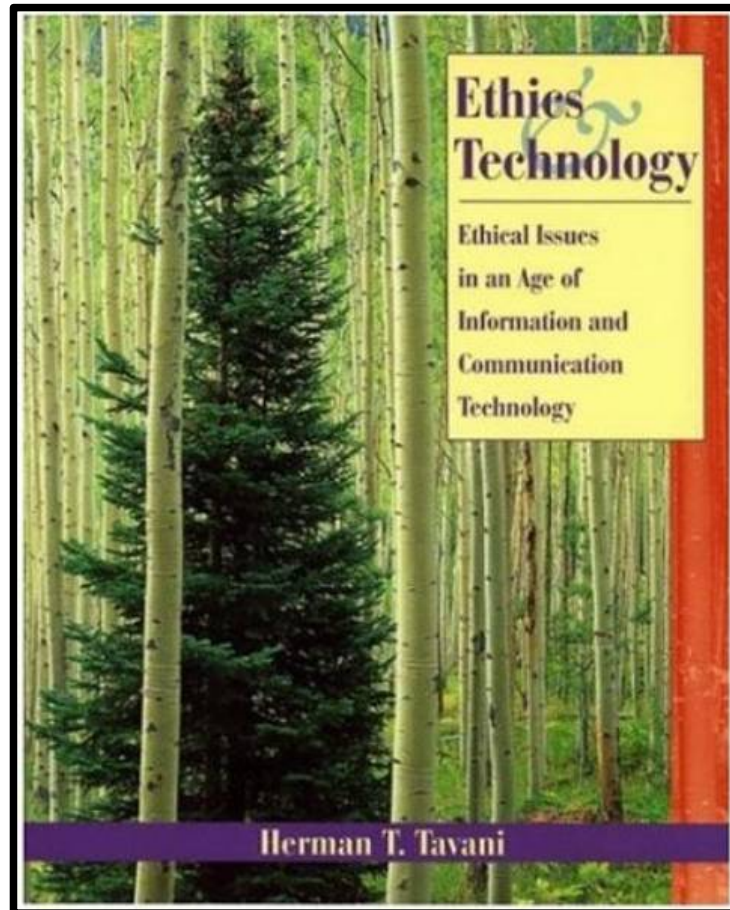
"We have seen an increase in the misuse of wi-fi, in order to steal information, identity or passwords and money from the users who use public or insecure wi-fi connections," he said.

<http://www.bbc.com/news/technology-26469598>

http://www.theregister.co.uk/2014/03/10/wifi_insecurity_reminder/

Reading:

Tavani Chapter 5: Privacy in Cyberspace



5

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