Privacy in a Networked World

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Administrivia

- Instructor: Antonio R. Nicolosi
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  - Office hours: Tuesday & Wednesdays, 1:00pm–2:00pm
Required Course Work

- Class attendance

- **Weekly** required readings on-line
  - Note: Read them before class!
  - During first 10–15 minutes of each class, you will answer a short question on the assigned readings

- Week-in-review
  - 10-minute presentation on recent relevant news stories (you’ll each do one week)
Group Reading & Term Project

- Two-people groups
- Book reading: Deliverables (due mid-semester)
  - Running “reading log” on Canvas
  - Summary (5–7 pages)
  - Presentation (15 minutes)
- Term project: Deliverables (due on last class)
  - Term paper (10–15 pages)
  - Presentation (15 minutes)
- See later for sample titles and topics
Work Load Breakdown

Work load breakdown

- 2.5 hrs/week: Class attendance
- 3.5 hrs/week: Readings
- 3.0 hrs/week: Book reading/team project
Grading

• 25%: Course participation, week-in-review & quizzes
  - Worst quiz will be dropped

• 20%: Book reading
  - Book summaries in Canvas
  - Presentations on Oct 10

• 25%: Group project
  - Project report in Canvas
  - Presentations on Dec 4

• 30%: Final exam (Dec 11??)
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What’s this course about?

**Privacy**
- What is privacy and why it matters
- Threats to privacy
- Protecting privacy

**Technology**
- How technology changed the “privacy game”
- How technology can *hurt* privacy
- How technology can *help* privacy
Privacy in Your Words

- Privacy relates to ...
What is privacy and why it matters

- Informational privacy and the “data shadow”
- The skeptic’s arguments
  - “I’ve got nothing to hide”
  - “Privacy has to die for security to flourish”
  - “You have zero privacy anyway”
  - “Privacy is the price of modern comforts”
- Conceptualizing Privacy: Contextual integrity and other frameworks
- Identity and Anonymity
Technological threats to privacy

- User tracking, online (www, apps) and offline (GSM, GPS, RFID, CCTV)
- Surveillance
- Profiling & ads
- Leak of personally identifiable information (PII) and ID theft
- Censorship
Class Topics (3)

**Protecting privacy**

- Privacy regulations and best practices
- Privacy-enhancing technologies (PETs)
  - Privacy policy tools (P3P)
  - Anonymous remailers (mix-nets, TOR)
  - Crypto tools (e-cash, credentials, multi-party computation)
- Randomization and DB privacy
- Differential privacy
Group Reading Options (1)

i. Nothing to Hide: The False Tradeoff between Privacy and Security. D. Solove

ii. The Future of Reputation. D. Solove

iii. Understanding Privacy. D. Solove

iv. The Digital Person. D. Solove
Group Reading Options (2)

v. **Privacy in Context.** H.Nissenbaum

vi. **The Limits of Privacy.** A.Etzioni

vii. **Code 2.0.** L.Lessig

viii. **Cellular Convergence and the Death of Privacy.** S.Wicker

ix. **The Future of the Internet and How to Stop It.** J.Zittrain
Group Reading Options (3)

- The Unwanted Gaze. J. Rosen
- The Naked Crowd. J. Rosen
- Privacy and Freedom. A. Westin
- Privacy Lost. D. Holtzman