DAT147: SECURITY TOPIC

MAGNUS ALMGREN

TOPICS

- Security-relevant

- Important trends in society

- Published at good conferences by good research groups
(looked at very recent conferences)

- Touches on the writing part and the ethical part of the course

- Fun

TOPIC
PRIVACY IMPLICATIONS FOR CYBER-PHYSICAL SYSTEMS

- **Elastic Pathing: Your Speed is Enough to Track You**
  (2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing)
  Xianyi Gao, Bernhard Firner, Shridatt Sugrim, Victor Kaiser-Pendergrast, Yulong Yang, Janne Lindqvist

- **Gyrophone: Recognizing Speech from Gyroscope Signals**
  (Usenix Security 2014)
  Yan Michalevsky and Dan Boneh, Gabi Nakibly

- **Current Events: Identifying Webpages by Tapping the Electrical Outlet**
  (ESORICS 2013)
  Shane S. Clark, Hossen Mustafa, Benjamin Ransford, Jacob Sorber, Kevin Fu, Wenyuan Xu

WHY?
PRIVACY IMPLICATIONS FOR CYBER-PHYSICAL SYSTEMS

- Sensors ubiqutous

- We collect more data with more sensors

- Some of these systems close to people

- What can we actually do with the data?

- Any "surprises?"

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Descriptions of papers and implication on blackboard