Human Attention Modeling with Co-Adaptive Computer Interface

* Question:
  + Monitor human user and gain attention? Or monitor human user and adapt the user interface?

Readings:

<https://www.cse.unr.edu/~sushil/class/ps/papers/Horvitz/cacm-attention.pdf>

<http://www1.ece.neu.edu/~schirner/cv/J5_IEEE_Computer_Jan_13_HiLCPS.pdf>

Ideas:

* F-35 and Drones
  + <http://www.scout.com/military/warrior/story/1699517-f-35-to-control-armed-attack-drones>
  + <http://www.military.com/daily-news/2015/05/19/air-forces-new-unmanned-strategy-has-f35-pilots-flying-drones.html>
* Volpe
  + Data Comm – helps minimize probability of human error for aviation
    - <https://www.volpe.dot.gov/safety-management-and-human-factors/aviation-human-factors/changing-way-pilots-and-controllers>
  + Cab Technology Integration Lab (CTIL) – improving understanding of human error caused by distraction during locomotive railroad operations
    - <https://www.volpe.dot.gov/sites/volpe.dot.gov/files/docs/Locomotive.pdf>
  + CTIL and eye tracking to measure distraction in locomotive cabs (experiment ideas)
    - <http://utc.mit.edu/system/files/UMAR24-17%20FP.pdf>
* GM
  + Eye tracking for driver assistance (super cruise)
    - <http://www.wsj.com/articles/gms-driver-assist-technology-promises-to-nag-1473413432>
    - <http://www.businessinsider.com/general-motors-super-cruise-eye-tracking-technology-2016-9>
* Things to discuss:
  + Raymond
    - Little interest in UM topic
    - No desire for a meeting; busy; not much time spent on MS students
  + Potentially find a new research advisor?
    - Erdogmus
    - Padir
    - <http://robot.neu.edu/research/>
    - <http://www.ece.neu.edu/groups/csl/research/index.html>