any regrade requests?
change of venue on monday
announcement

project proposal due

1:00 am Wednesday, 10/28

this is a hard deadline:
no late days allowed!
project proposal

• 1-2 pages
• key research problem
• key contributions
  • significance
  • core sections and timeline
  • extensions (optional)
• weekly goals
  • step 1: skim core paper
  • identify background, core concepts
project labs

• project updates (3+2 points)
  • 15 min group meetings
  • met the previous goal?
  • specificity and scope of weekly goal
• next lab is for checking in on proposal
  • attendance mandatory
  • work on/clarify project proposal
where we’re going...

mix of lectures and paper presentations

no reaction notes outside class!
(in class) reaction notes

- “3 things”
- something neat
- unclear/more info
lecture topics

• game theory
• recommender systems
• more on markets
paper topics

• amazon, youtube and reciprocal recommender systems
• MOOCs
• how to display ads online
the story so far...
Decision Markets
(Hanson, 1999)

Prediction Markets
(Wolfers Zitzewitz, 2004)

Combinatorial Information
Market Design
(Hanson, 2003)

Prediction Markets: Does
Money Matter?
(Servan-Schreiber, Wolfers,
Pennock, Galebach, 2004)

Corporate Prediction Markets:
Evidence from Google, Ford,
and Firm X
(Cowgill, Zitzewitz, 2015)

Designing Markets for Prediction
(Chen Pennock, 2010)
prediction mechanisms (sans markets)

Prediction without Markets (Goel, Reeves, Watts, Pennock 2010)

A Bayesian Truth Serum for Subjective Data (Prelec, 2004)

Who are the crowdworkers?: shifting demographics in mechanical turk (Ross, Irani, Silberman, Zaldivar, Tomlinson, 2010)

Trick or Treat: Putting Peer Prediction to the Test (Gao, Mao, Chen, 2014)
Decision Markets
(Hanson, 1999)

popularized idea of using markets as a tool for information aggregation: pushed for more research
field study of prediction markets and their efficacy
Combinatorial Information
Market Design
(Hanson, 2003)

introduced the (L)MSR market maker mechanism
survey paper: we first encountered the cost function formulation and the idea of peer prediction here

real money versus play money with historical data from TS and NF and ProbabilitySports: answers mostly ‘no’
(mostly defunct) high accuracy corporate markets that are used to predict product performance/launches, sales, outside (commodity) prices
only marginal improvement from prediction markets vs ‘filtered’ polls and stats models (tested with NFL, MLB, HSX)
A Bayesian Truth Serum for Subjective Data (Prelec, 2004)

peer prediction mechanism for multiple choice question that scores based on information and prediction

high score for surprisingly common answers

KL divergence between predicted and actual distribution of answers
MRZ p.p. mechanism converges to uninformative ‘coordinating’ equilibrium in practice
Who are the crowdworkers?: shifting demographics in mechanical turk (Ross, Irani, Silberman, Zaldivar, Tomlinson, 2010)

shift towards indians, higher education, younger, males, lower salary (rely on MTurk for income)
next up…

intro to game theory