Good Afternoon, Colleagues

Are there any questions?
Logistics

- SCM software available
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- CAT software expected soon
Logistics

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- Discussion leaders
Automated Mechanism Design

- An overview reading - there are further details
  - But should have been self-contained
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  - Realistic?
- Not the same as *adaptive* mechanism design
Truthfulness

- Why is truthfulness such a big deal?
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- What if computational complexity is an issue?
Truthfulness

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- What if computational complexity is an issue?
- What if the mechanism were deceptive?
Impossibility results

- How can they be “circumvented?”
Impossibility results

- How can they be “circumvented?”
- When can they be circumvented?
Example: Bush, Gore, or Nader?
Gibbard-Satterthwaite

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  - Assume your preference is Nader $>\text{Gore} > \text{Bush}$
  - For whom should you vote?
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- What if we change the system?
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- Plurality, Binary, Borda?
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3+ candidates $\implies$ only dictatorial system eliminates need for tactical voting
- One person appointed
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- **Push-over:** Rank someone higher to get someone else elected
  - e.g. in a protocol with multiple rounds
Mechanism not standard

- Changes from interaction to interaction
- Could get complicated
Mechanism not standard

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- Could get complicated
- Is this a problem?
Multi-stage mechanisms

- Registering for classes: what if you had to give your entire preference function over all options?
Multi-stage mechanisms

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- What’s a possible multi-stage mechanism?
Multi-stage mechanisms

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- What’s a possible multi-stage mechanism?

- Would it save you computation?
Mechanism design vs. agent design

• Do they boil down to the same thing? (Jaesuk)
Deliberation control

- What’s most worth computing about?