Network Economics
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Administration

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Administrative information

- Instructor: Patrick Loiseau (office 427)
  - patrick.loiseau@eurecom.fr
  - http://www.eurecom.fr/~loiseau/

- Course website:
  - http://www.eurecom.fr/~loiseau/NetEcon/

- No specific office hour

Goal

- Introduce some questions (sometimes some solutions too) in economics of networks and of the Internet
- Discuss some current research problems

- Use concepts learned in game theory
- Introduce more advanced game theory topics

- Research oriented course
  - Not exhaustive/not one textbook: I pick things I like from different books / papers
  - Chances to understand without attending the class are low

Content

- Pricing of communication services
- Incentives in P2P/crowdsourcing networks
- Reputation systems
- Economics of network security and privacy
- Auctions and applications
- Students presentations of papers on different topics

Grading

- A short written exam of 20 minutes in the form of multiple choices questions, done at the beginning the students presentations (20%).
- Students presentations – by groups (40%)
- Students abstract – individual (40%)

Students presentations & abstracts

- By groups of 3, choose a paper in the list on the website
  - Send me the groups with 3 selected papers ranked by preference by Dec. 14, 12:00pm
- Read carefully the paper to understand it perfectly
  - (That might require reading other sources!)
- Prepare:
  - By group: a 25 min presentation on the topic of the paper (TBD given the number of groups)
    - The presentation will be followed by questions
  - Individually: a 2-pages abstract of the paper
- Although the presentations are prepared by groups, each student must be ready to present everything
  - I reserve the right to decide randomly at the last minute who presents
- Student presentations will take place on Jan 25 or Feb 14, afternoon
- Send me by email, before the presentations start
  - The presentation slides (one file per group)
  - The abstracts (one file per student)

Some general advice for abstracts/presentations

- The papers given are hard
- They will require to look at other papers to be fully understood (excuses such as "we have not seen that in class" will **not** be accepted)
  - Research!

- Read them early
- Search for additional references
- Ask questions early

Grading criteria

- Abstracts:
  - Quality of the synthesis
  - Clarity
  - Presentation
  - Understanding
- Presentations:
  - Clarity, quality of the slides and presentation
  - Ability to extract the most important aspects
  - Pedagogy
  - Understanding
  - Answer to questions