

Information Economics

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- What is Information Economics?
 - Except that it is a part of Micro Theory no one can tell you significantly more.
 - Informally, just a collection of research areas where information plays a substantial role for the model's predictions.

Origins

- Before 70's the only existing models were the ones with perfect information:
 - it was believed that adding asymmetric/imperfect information is not only complicated, but is also useless.
- Akerlof (the market for lemons) and Spence (signaling) provided important examples where information structure matters for the results.

Current State

- Now IE constitutes approximately half of Micro Theory and is its most active field.
- Within the course we will cover both the origins of this field, and it's currently active topics.

- **Adverse Selection/Asymmetric Information**

- Lemon's Market
- Signaling & Screening
- Disclosure
- Moral Hazard

- **Information Transmission**

- Cheap Talk and Reputation
- Bayesian Persuasion
- Global Games

- **Experimentation and Learning**

- Clinical Trials and the Gittins Index
- Strategic Experimentation

Course Grading

- 3 HA = 15% of the grade,
- Midterm = 40% of the grade,
- Final Exam = 45% of the grade.

Miscellaneous Information

- Instructor: Aleksei Smirnov (homepage link)
 - Research Interests: Dynamic Games of Information Transmission, Learning and Reputation Building, Voluntary Disclosure
 - Office Hours: by appointment
- Textbook
 - There is no textbook for this course. For all the topics slides will be self-contained. For some selected topics links to the original papers/overview papers/additional notes will be provided.
- Prerequisites
 - To deal with some of the aforementioned models the knowledge of Bayes' Rule, Taylor Series, Normal Distribution and Poisson Process is required.