Game theory Lab

Alexander Nesterov, Phd

What is going on?

- How to find a corruptive auction using big data?
  - few, ongoing: Ivanov, Nesterov; Ianovski, Baklanov

- Do doctors recommend drugs based on commission WITHOUT running proper tests first?
  - ongoing: Adaeva, Nesterov

- Do men risk too much? Do women risk too little?
  - ongoing: Nesterov, Susin

- How are students matched to schools and why?
  - few, ongoing: Bonkoungou, Nesterov

- How to score athletes and candidates?
  - ongoing: Kondratev, Ianovski, Nesterov, Ditzenbacher

What do we do?

- Game theory and applications
- Mechanism design
  - studying (and creating) rules of the game (auctions, voting, etc.)
- Market design
  - studying (and creating) markets to match supply and demand
- Information design
  - studying (and creating) who knows what in the game
- Miscellaneous:
  - Experiments in decision-making,
  - Computational social choice,
  - Machine learning for Economics
  - Mathematics

Who does all this?

Moulin, Hervé
Academic Supervisor

Nesterov, Alexander S.
Laboratory Head

Adaeva, Xenia
Research Assistant

Bagranova, Venera
Manager

Baklanov, Artem
Research Fellow

Bogomolnaia, Anna
Chief Research Fellow

Bonkoungou, Somouaoga
Research Fellow

Dietzenbacher, Bas
Research Fellow

Gavrilovich, Misha
Senior Research Fellow

Gordon, Joseph
Research Assistant

Grinikh, Alexandra
Research Assistant

Ianovski, Egor
Research Fellow

Ivanov, Dmitriy
Research Assistant

Kalinin, Nikita
Senior Research Fellow

Kondratev, Aleksei
Senior Research Fellow

Kreps, Victoria L.
Leading Research Fellow

Osipov, Nikolai
Senior Research Fellow

Petrosian, Ovanes
Senior Research Fellow

Pravotorov, Dmitry
Research Assistant

Sandomirskiy, Fedor
Senior Research Fellow

Sorokin, Constantine
Senior Research Fellow

Takhmazova, Aida
Research Assistant

Yanovskaya, Elena B.
Chief Research Fellow

Zhuravleva, Tatyana
Research Fellow

Who does all this?

- Game theory
  - cooperative: Yanovskaya, Kondratev, Ditzenbacher
  - non-cooperative: Panov, Sorokin, Baklanov
- Mechanism design
  - auctions: Kalinin, Sorokin (theory); Nesterov, Ivanov (empirics)
  - voting: Kondratev, Ianovski
  - fair division, etc.: Sandomirskiy, Ditzenbacher
- Market design
  - matching markets: Bonkoungou, Nesterov, Kondratev
- Information design: Sorokin, Sandomirskiy
- Miscellaneous:
  - Experiments in decision-making: Zhuravleva, Nesterov, Adaeva, Susin,
  - Computational social choice: Ianovski,
  - Machine learning for Economics: Ivanov, Baklanov
  - Mathematics: Gavrilovich, Osipov, Kalinin

Who can you work with?

- Full-time employees (4)
- Postdocs (4)
- Part-time, including former full-timers (4)
- Phd-students (2)

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How to join us?

- We hire: up to 10 paid research assistants positions
  - necessary and sufficient condition:
    find a supervisor from the Lab

We are open and approachable:
- weekly internal seminar,
  - Thursday at 16, talk to the manager for email: vbagranova@hse.ru
- weekly department seminar (with EUSP),
  - Thursday at 18, https://tinyurl.com/spbecon
- workshops of the Lab
  - October 15-16, room 339, from 11.00 to 15.00
- reading group on matching market design
  - (TBA, ask me: nesterovu@gmail.com)