Friday 25 October 2019

3rd International Week Department of Economics and Management University of Florence

Mini Course on Two-sided matching: theory and application to school choice

PhD in Economics
And

Health and Education Economics - MSc in Economics and Development

Professor Vincent Iehlé CREAM, Université de Rouen Normandie Ass. Researcher, Centre d'Economie de la Sorbonne

Room: D6/011

Time:

10.15-11.45

12.00-13.30

14.30-16.00

Title: Two-sided matching: theory and application to school choice

Instructor: Vincent IEHLE

Objectives: this is a topics course in microeconomics. It covers recent developments on the allocation of resources on markets not necessarily governed by prices, with an emphasis on the allocation of public-school places to children.

Course Description:

Introduction to two-sided matching

- Gale and Shapley (1962) College admissions and the stability of marriage, American Mathematical Monthly.
- Roth (1982) The economics of matching: stability and incentives, Mathematics of Operations Research.
- Dubins and Freedman (1981) Machiavelli and the Gale-Shapley algorithm, American Mathematical Monthly.
- Roth (1984) The evolution of the labor market for medical interns and residents: A case study in game theory, Journal of Political Economy.

2. School choice

- Abdulkadirogolu and Sonmez (2003) School choice: a mechanism design approach American Economic Review.
- Pathak and Sonmez (2013) School Admissions Reform in Chicago and England: Comparing Mechanisms by their Vulnerability to Manipulation, American Economic Review.
- Hafalir, Yenmez and M. Yildrim (2013) Effective Affirmative Action in School Choice, Theoretical Economics.

3. Putting theory into practice

- Admission to secondary schools
- Admission to college / universities
- Academic job market
- Teachers' assignments

Texts Used:

- Roth, A. and M. Sotomayor: Two-sided matching A study in game-theoretic modeling and analysis. Cambridge University Press. 1990.
- Roth, A. (2008), Deferred acceptance algorithms: history, theory, practice, and open questions, International Journal of Game Theory 36(3), 537-569.
- Sonmez, T. and U. Unver: Matching, allocation, and exchange of discrete resources. Chapter 17 in Handbook of Social Economics (volume 1). North-Holland. 2010