SS 211b: Advanced Economic Theory

General Information:
Lectures: Tu-Th 10:30-11, Room TBD
Class homepage: http://www.hss.caltech.edu/~fede/ss211/

Course Outline.
This is a topics course in economic theory. By popular demand I will spend most of the class on monotone comparative statics. Then I will finish by covering some economic applications of results in convex analysis.

1. Partially ordered sets and lattices. Ordinal and cardinal notions of complementarities. Orders on sets. Lattice programming—Topkis’s and Milgrom and Shannon’s monotonicity theorems. Quah’s theorem on constrained optimization.
   Readings: Topkis 2.2, 2.3, 2.4; Milgrom and Shannon (1994) and Quah (2007).

   Readings: Topkis 2.5, Milgrom and Roberts (1990), and Adachi (2000).

3. The sufficiency of monotonicity for cyclic monotonicity. Applications to mechanism design and demand theory.
   Readings: Rockafellar (1971) and Monderer lecture notes.

   Readings: Robert Anderson’s lecture notes.
References


