Economics and Computation

Subject Code (deprecated): ECON
Course Number: 425
Section Number: 01
Description: A mathematically rigorous investigation of the interplay of economic theory and computer science, with an emphasis on the relationship of incentive-compatibility and algorithmic efficiency. Our main focus is on algorithmic tools in mechanism design, algorithms and complexity theory for learning and computing Nash and market equilibria, and the price of anarchy. Case studies in Web search auctions, wireless spectrum auctions, matching markets, and network routing, and social networks.

Instructor(s) from Econ Site: Yang Cai
Instructor Name from WEN: Yang Cai
Meeting Pattern (deprecated): MW 2.30-3.45
Term Code: 202003
Prerequisite List: No prerequisites
Senior Seminar: ADVANCED LECTURE COURSES WITH LIMITED ENROLLMENT
Preregistration Meetings:
August 18, 11:00 am - 12:00 pm EDT
https://yale.zoom.us/j/91265848887

August 21, 2:30 - 3:30 pm EDT
https://yale.zoom.us/j/95497874217

Source URL: https://economics.yale.edu/undergraduate/courses/425/202003