Optimization and Economic Equilibrium in Commodity Spaces of Bounded Functions

Abstract:

The mathematical techniques discussed at the talk will include: duality in optimization (linear and convex programming, control of an ordinary differential equation), convex calculus, topological methods in optimization (continuity of solution in parameters, existence of fixed points), Hardy-Littlewood-Polya majorization, and various uses of linear functional analysis (bounded or mixed topologies, vector lattices).