ON SANNIKOV’S PRINCIPAL-AGENT PROBLEM

Kelly Sin-Man Choi, University of California, Berkeley, USA, kelly.smchoi@berkeley.edu
Xin Guo, University of California, Berkeley, USA, xinguo@ieor.berkeley.edu

The principal-agent problem is one of the classical problems in economics. Recently Sannikov (2008) proposed a general continuous time stochastic control problem for which an analytical solution was provided and its optimality was demonstrated. This piece of work has attracted significant amount of research interest. In this talk, we will provide rigorous mathematical analysis on the value function with a viscosity solution approach.