May 3rd, 2021
Zoom Meeting
4:00 P.M. - 5:00 P.M.

Prof. Jianjun Zhou
(Northwest A&F University, China)

Viscosity Solutions to Path-Dependent Hamilton-Jacobi-Bellman Equations and Applications

Abstract: In this talk, a notion of viscosity solutions is introduced for second order path-dependent Hamilton-Jacobi-Bellman (PHJB) equations associated with optimal control problems for path-dependent stochastic differential equations. We identify the value functional of optimal control problems as unique viscosity solution to the associated PHJB equations. We also show that our notion of viscosity solutions is consistent with the corresponding notion of classical solutions, and satisfies a stability property. Applications to backward stochastic Hamilton-Jacobi-Bellman equations are also given.

Zoom link:
Topic: USC Math Finance Colloquium
Time: May 3, 2021 04:00 PM Pacific Time (US and Canada)

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