Hong Kong Consortium of Quantitative Finance

The Hong Kong Polytechnic University 香港理工大學

CityU Department of Mathematics 香港城市大學 City University of Hong Kong

香港中文大學 The Chinese University of Hong Kong

NUS National University of Singapore | Centre for Quantitative Finance Faculty of Science

Hong Kong - Singapore joint Seminar Series in Financial Mathematics/Engineering

Recover utility of rational inattentive agent and applications on robo-advising

Professor Hao Xing
Boston University

Abstract

We consider a rational inattentive agent who acquires costly signal to make decisions. By observing agent's actions, we formulate an inverse reinforcement learning problem to recover agent's utility. We propose an efficient numeric algorithm and prove its convergence. The framework is applied to robo-advising problems to recover investors' utilities by observing their investment strategies. This is a joint work with Zeyu Zhu

About the speaker

Prof. Hao Xing is an associate professor in finance at Boston University. Before joining Boston University, he worked at Department of Statistics, London School of Economics, and obtained his PhD from University of Michigan. Hao's research focuses on stochastic control and applications in financial economics.

Date

3 March 2022 (Thursday)

(HK Time)

Time

8:30pm – 9:30pm (HK Time)

Zoom

https://polyu.zoom.us/j/95113239993?pwd=Z0Nyc0lzcFJ0ekwwdDhKbGw4eit5dz09

Meeting ID:
951 1323 9993

Passcode:
0303