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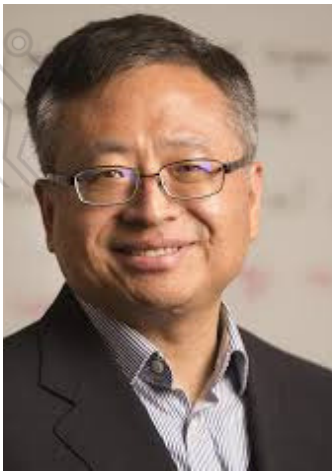

DR. XUNYU ZHOU

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Who Are I: Intrapersonal Conflicts and Self Control

November 9,2018 | 2PM-3PM | BSE 2.102
COE Multipurpose Room

The title of this talk contains a grammatical error, which is intentional. It highlights the notion that an individual is most likely "dividual": there exist different selves at different points in time who may not act consistently among themselves. This leads to time-inconsistent control and self control problems. In this talk I will present several classes of time-inconsistent problems together with their economic motivations, highlight the ways to address the time-inconsistency, and provide solutions to some of the problems including a portfolio selection problem.

Hosted by: ECE Electrical & Computer Engineering

BIOGRAPHY

Xunyu Zhou is the Liu Family Professor of Financial Engineering at Columbia University in New York. His current research focuses on quantitative behavioral finance models that incorporate human emotions and psychology into financial decision makings, and on general time-inconsistent problems. He is known for his work in indefinite stochastic LQ control theory and application to dynamic mean-variance portfolio selection, and in asset allocation and pricing under behavioral preferences. He directs the FDT Center for Intelligent Asset Management, a research center funded by a FinTech company. He has addressed the 2010 International Congress of Mathematicians, has given the Archimedes Lecture at Columbia and the Humboldt Distinguished Lecture at Humboldt University, and has been awarded the Wolfson Research Award from The Royal Society (UK), the Outstanding Paper Prize from SIAM, and the Alexander von Humboldt Research Fellowship. He is both an IEEE Fellow and a SIAM Fellow. Professor Zhou received his PhD in Operations Research and Control Theory from Fudan University in China in 1989. He was the Nomura Professor of Mathematical Finance and the Director of Nomura Center for Mathematical Finance at University of Oxford during 2007-2016 before joining Columbia.