Control Theory in Stochastic Dynamic Systems

Speaker: Xiaoxiao Peng (Fudan University)
Time: 2023-10-26, 16:10 to 17:00
Location: Rm 1801, Guanghua East Tower
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Abstract: The aversion to noise and the discomfort stemming from its uncertainties are commonplace. However, it is worth noting that, in reality, noise can be harnessed as a valuable tool for guiding systems towards their desired states. Recent years have witnessed a burgeoning body of research that delves into the art of using noise to attain stability, synchronization, and an array of control objectives in systems. In this forthcoming presentation, we will explore the intricate landscape of employing diverse types of noise to achieve distinct degrees of control over stochastic dynamic systems under varying conditions.