

Interdisciplinary Research Addressing New Challenges: The Central Role of Stochastic Systems and Control

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In 2017, the US National Science Foundation (NSF) announced 10 Big Ideas for Future Investment. These research ideas, such as "Harnessing the Data Revolution" or "Future of Work at the Human Technology Frontier", all require expertise from multiple disciplines to come together to address specific problems that are important in our society. One of ideas, "Growing Convergence Research" is explicitly about expanding our ability to conduct multi and interdisciplinary research. "The goal was to motivate dynamic, fundamental, interdisciplinary research building on a theme that science is strongest when science works together." Certainly, with advances in computing and sensor development, stochastic systems, control and adaptive control will play a central role in much of that multi and interdisciplinary research. This talk will focus on advances in noise modeling in stochastic systems, control and adaptive control.

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