



控制科学与工程学院 科技创新论坛



报告人: Prof. Na Li

School of Engineering and Applied Sciences at Harvard University

报告题目:

**Distributed Decision Making in Network Systems:
Algorithms, Fundamental limits, and Applications**

报告时间: 周二 14:00--15:30 (8月14日)

报告地点: 新楼501室

Abstract:

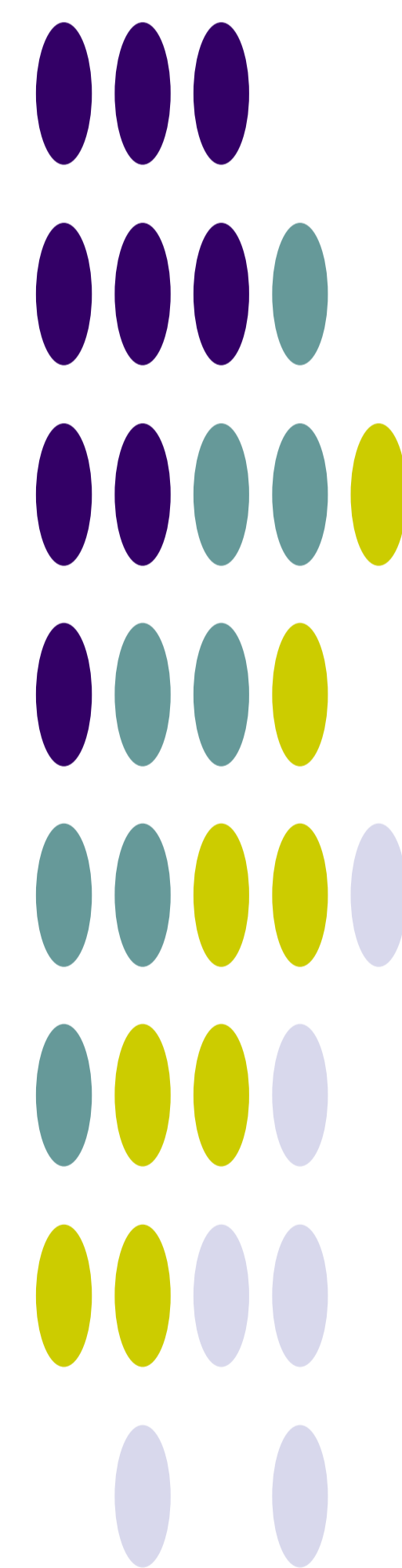
A brief introduction of **School of Engineering and Applied Sciences at Harvard University** will be provided before this talk.

Recent radical evolution in distributed sensing, computation, communication, and actuation has fostered the emergence of cyber-physical network systems. One central goal is to shape the network collective behavior through the design of admissible local decision-making algorithms. This is challenging due to the constraints of local connectivity, imperfect communication, time-varying uncertainty, etc. In this talk, I will present our recent progress in formally advancing the systematic design of distributed coordination in network systems. We investigate the fundamental performance limit placed by these various challenges, design fast, efficient, and scalable algorithms to achieve the performance limits, and test and implement the algorithms on real-world applications.

报告人简介:



Na Li is a Thomas D. Cabot associate professor in the School of Engineering and Applied Sciences at Harvard University. She received her Bachelor degree in Zhejiang University and Ph.D. degree in Control and Dynamical systems from California Institute of Technology. She was a postdoctoral associate of the Laboratory for Information and Decision Systems at Massachusetts Institute of Technology. She has joined Harvard University since 2014. Her research lies in distributed optimization and control of cyber-physical networked systems. She received NSF career award and AFSOR Young Investigator Award, Harvard Climate Change Solution Fund, Harvard PSE Accelerator Award, CDC Best Student Paper Award finalist, CCTA best student paper award finalist, etc.



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