



Human-Robot Collaborative Manipulation



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Seminar: Thursday Sept 29, 10:00 AM, 112 Kern

ABSTRACT

Research at the Center for Robotics and Biosystems at Northwestern University includes bio-inspiration, neuromechanics, human-machine systems, and swarm robotics, among other topics. In this talk I will give an overview of our work on manipulation, including autonomous robot manipulation, neuroprosthetics to restore human manipulation capability, and human-robot collaborative manipulation..

BIOGRAPHY

Kevin Lynch is a professor of mechanical engineering and director of the Center for Robotics and Biosystems at Northwestern University. His research is on robotic manipulation, locomotion, human-robot systems, and robot swarms. He is Editor-in-Chief of the IEEE Transactions on Robotics, former Editor-in-Chief of the IEEE Conference on Robotics and Automation Conference Editorial Board, a coauthor of three textbooks on robotics and mechatronics, and the instructor of six Coursera online courses forming the Modern Robotics specialization. He received the B.S.E. degree in electrical engineering from Princeton University and the Ph.D. degree in robotics from Carnegie Mellon University.