



Department of Biomedical Engineering
Graduate Seminar



IEEE RAS Chapter Seminar

Date
Friday, Oct. 25

Location
CKB 303

Time
12:00-1PM

Dr. Hao Su

Assistant Professor

Department of Mechanical Engineering

City College of New York



Soft, Strong, and Smart Wearable Robots for Human Mobility and Manipulation Augmentation

This talk presents enabling technologies (e.g. high torque motors) to create the next generation of soft robots for human collaboration. Unlike conventional wearable robots that are rigid and heavy, soft exoskeletons use soft materials to provide a conformal and unobtrusive means to interface to the human body. The talk describes our innovation in new actuation paradigm, soft actuators, soft sensors, and control approaches that deliver biologically-inspired assistance and how this will enable a paradigm shift of wearable robots from lab-bounded rehabilitation tools to ubiquitous personal robots for work injury prevention, impairment recovery, and homecare.