

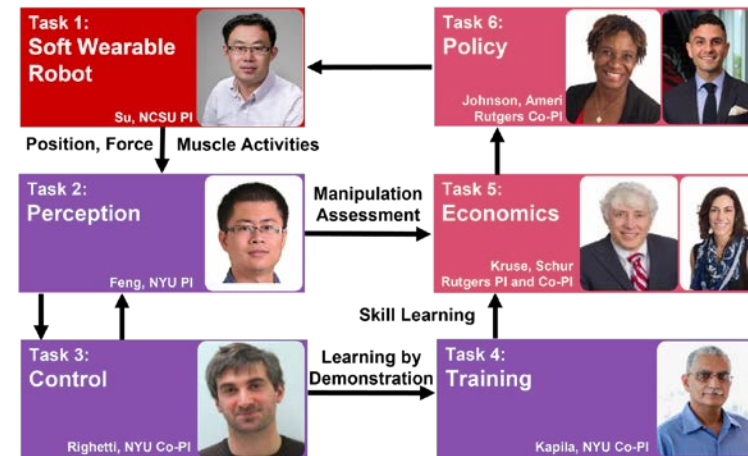
2026622 - Improving the Future of Retail and Warehouse Workers with Upper Limb Disabilities via Perceptive and Adaptive Soft Wearable Robots

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PERceptive and Adaptive SOft (PECASO) Wearable Robots

Scope: modeling, perception, and control of soft wearable robots to provide physical assistance and skill training for people with physical disabilities in work.



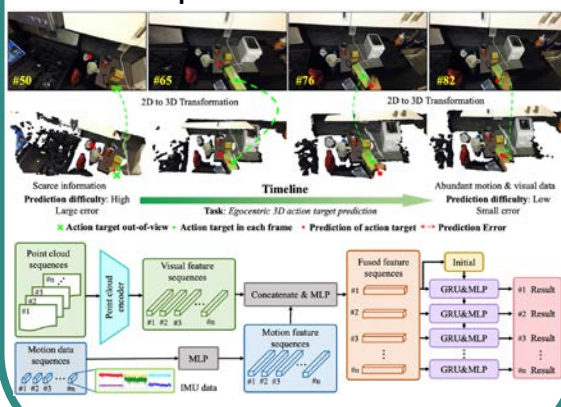
Wearable Robot

Design of lightweight and compliant soft wearable



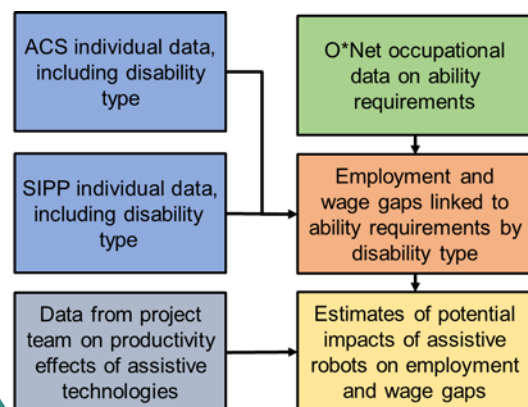
Perception and Control

Develop intelligent motion anticipation and control



Policy and Economics

Impact on employment and wage gaps



Training

Elbow Educational Kit



Impact: the convergent efforts of these multiple activities have the potential to enhance employment, inclusion and integration of people with physical disabilities in job tasks that are relevant to retail, warehouse, and manufacturing.

