

NRI:FND: Communicating Physical Interactions

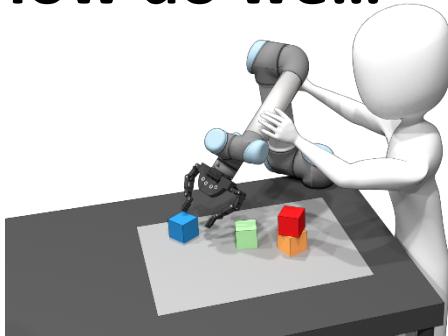
Michael Gleicher, PI, Bilge Mutlu, co-PI, Michael Zinn, co-PI

Pragathi Praveena, Daniel Rakita, Guru Subramani, Michael Hagenow, Bolun Zhang

NRI Award IIS-1830242



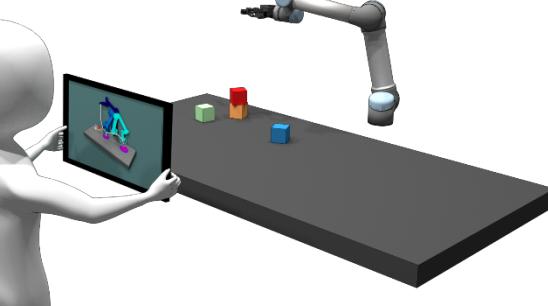
When tasks involve physical interactions How do we...



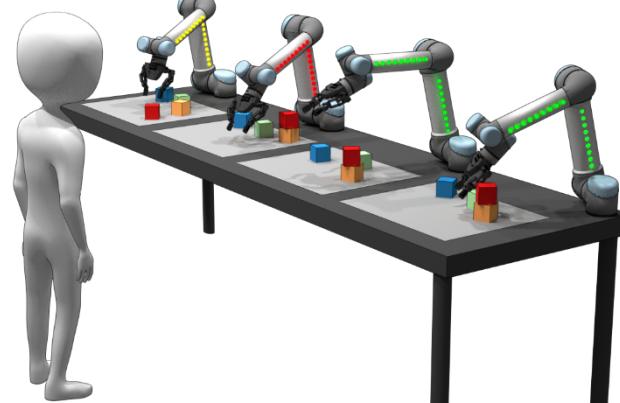
Specify robot actions?



Control robot motions?



Interpret robot plans?



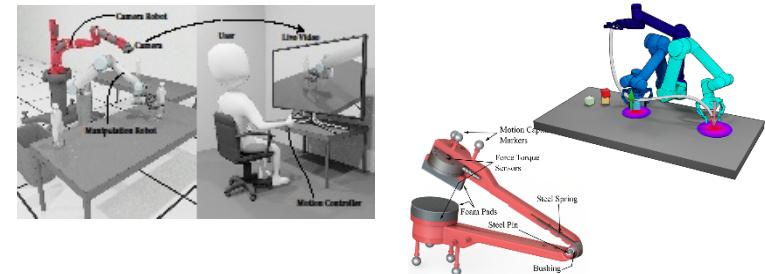
Monitor robot activities?

Our Plan:

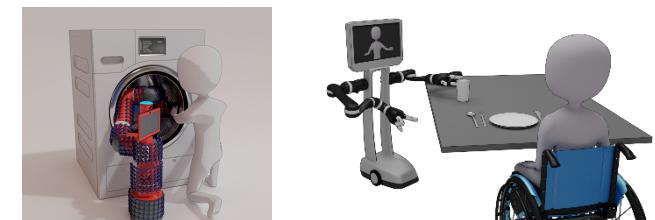
Formative Studies:



Method Development:



Proof of Concept Applications:



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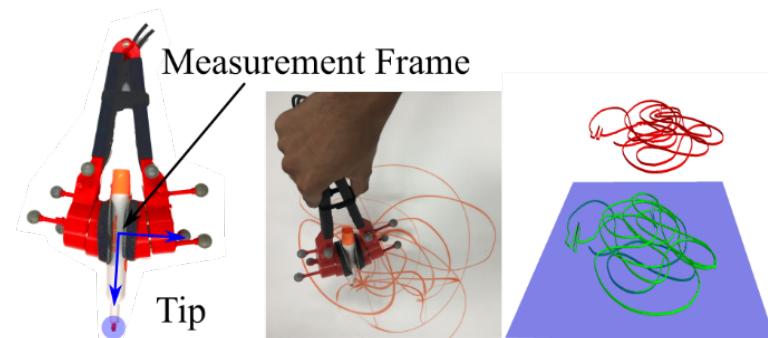
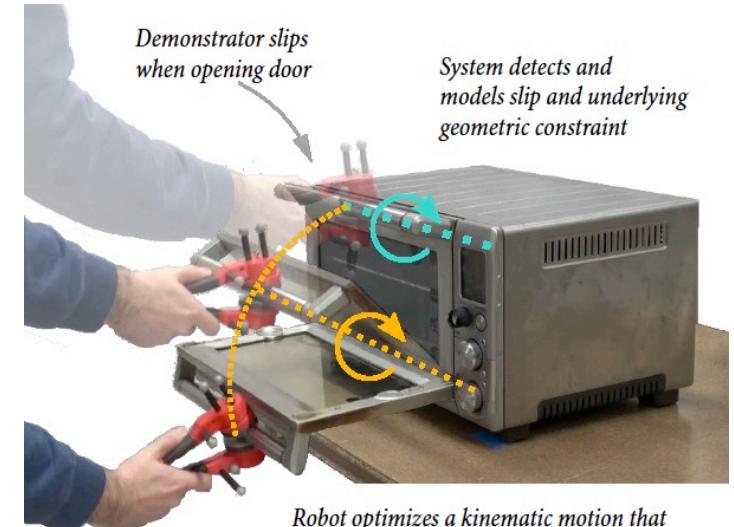
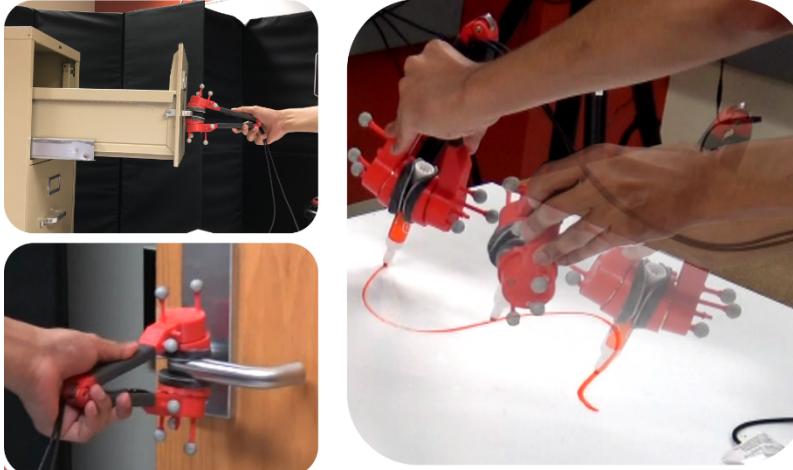
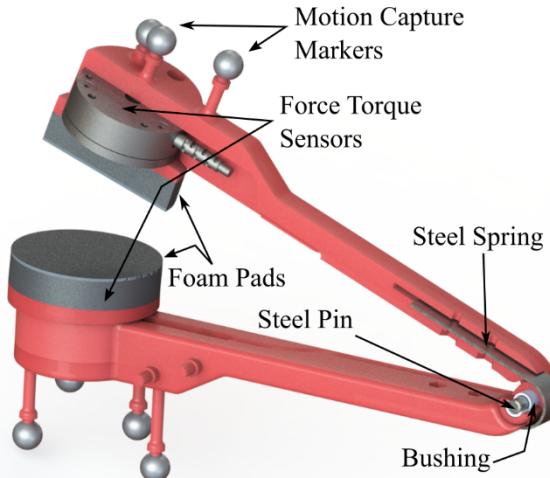
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Initial Progress: Input Devices, Constraint Inference, Robot Replay



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Initial Progress: Tele-Operation, Haptic Illusions, Planning

