

Agent:

- Support force feedback
- Impedance control
- 6-DOF arm movement
- LiDAR for localization and mapping

Vision:

- Incorporate object manipulation and collective learning into object identification
- Visual inspection of objects from different perspectives
- Bio-inspired approach mimics the multi-modal assessment of objects observed in children as they learn to identify objects

Collaborative Transport:

- Guaranteed coupled stability requires real-time response
- A robust algorithm will generalize the core project's stability preservation mechanisms to manipulators mounted on distributed robots.



Can swarm robotics improve object recognition, object manipulation, and collaboratively transport objects?









