

Master-Slave Teleoperation over Internet

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The demo showcases long distance Master-slave teleoperation system using 3D systems Touch as master haptic device and Franka panda arm as slave.

Summary:



- Teleoperation using ROS and WireGuard VPN
- Video feed sharing (GoogleMeet/Hangouts/zoom)
- Slave controller running on slave side
 - Inverse kinematics
 - Safety checks (work space limits, joint limits, torques, velocities etc.)
- Tested using identical twin franka, Touch and Touch-x devices.

Speaker:

Mithun Poozhiyil Postdoctoral research fellow Lincoln Centre for Autonomous systems (L-CAS), University of lincoln. Expertise in Motion planning, Robot Kinematics and dynamics and vision based control. Projects: NCNR Flexible Partnership Funding: CoRSA: Co-manipulated Robotic Training and Skill Assistance for Telemanipulation in Nuclear Settings

