

# Robot-Assisted Haptic Rendering of Bilateral Physical Tasks via Physical Engine

Yudong Liu, Kaiya Chu and Qing Miao

Department of Biomedical Engineering, SUSTech, China

Mingming Zhang

Department of Biomedical Engineering, SUSTech, China

- This study developed a haptic-integrated robotic system capable of delivering bilateral physical training that resembles ADLs.
- The system is implemented with robotic motion control and a physical engine.
- The system showed satisfying motion control and haptic transparency in terms of position tracing during bimanual tasks.

